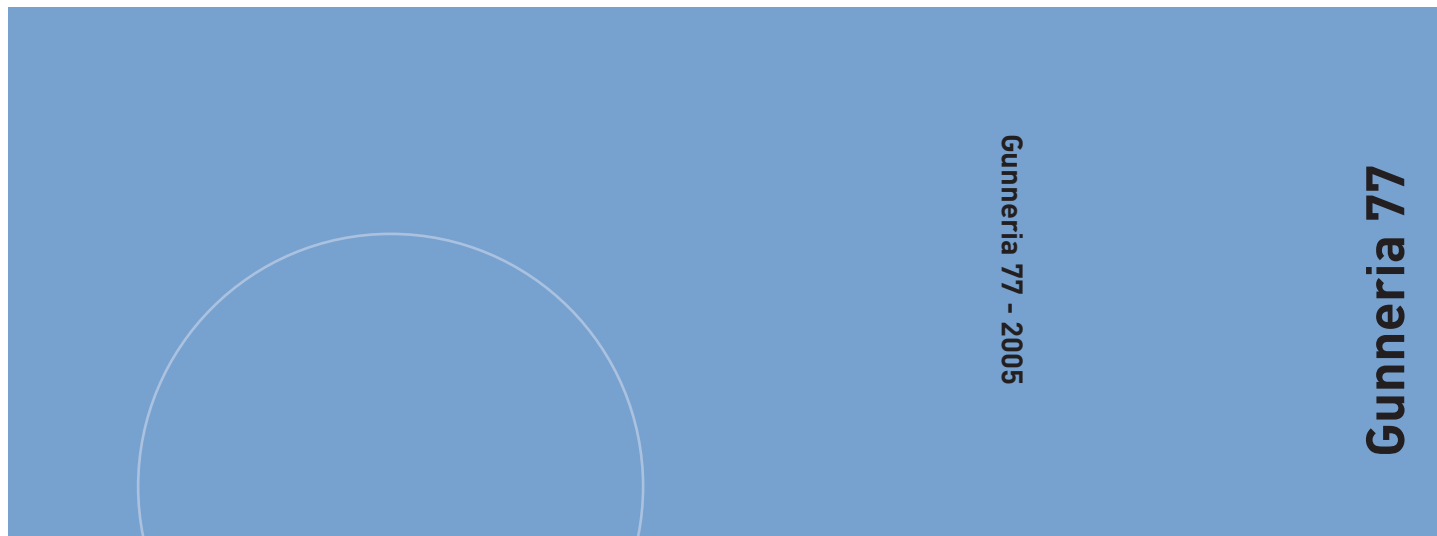


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The coralline red algal herbarium of Mikael Foslie: revised catalogue with analyses

NTNU
Norwegian University of
Science and Technology
Museum of Natural History and Archaeology

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Heidi Elin Myklebost, Tommy Prestø
and Sigurd M. Såstad

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**Norwegian University of Science and Technology
Museum of Natural History and Archaeology**

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Abstract

Woelkerling, W.J. ¹⁾, Gustavsen, G. ²⁾, Myklebost, H.E. ²⁾, Prestø, T. ²⁾, Såstad, S.M. ²⁾ 2005. The coralline red algal herbarium of Mikael Foslie: revised catalogue with analyses. *Gunneria* 77: 1-625.

On a world-scale, the nongeniculate coralline red algal herbarium of Mikael Foslie arguably constitutes the single most important resource for scientists engaged in taxonomic studies of these algae. Foslie described more new taxa of nongeniculate corallines than any other person, and his herbarium is extremely rich in type material. Type specimens are critical in taxonomic work because they underpin the correct application of names to taxa and thus bring stability to the use of names in taxonomic, ecological and other research. The richness of type and other historically significant specimens in Foslie's nongeniculate coralline herbarium renders it an international scientific treasure. There is no doubt that Foslie's material will continue to play a pivotal role in the development of our taxonomic understanding of one of the more diverse and ecologically important groups of marine algae.

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Preface and acknowledgements

The idea for producing a revised catalogue of the nongeniculate coralline collections in the Foslie Herbarium arose from discussions at the Museum of Natural History and Archaeology in Trondheim between Sigmund Sivertsen and Bill Woelkerling during an extended visit of the latter in 1991. At that time, Sivertsen was responsible for the curation of the collections while Woelkerling was undertaking the studies that led to publication of a volume on type collections of Corallinales in the Foslie Herbarium (Woelkerling 1993).

In november 1991, Prof. Asbjørn Moen, who was then head of the Botany Department at the Museum, asked Woelkerling for a summary report of the work done during 1991 and for ideas for further work on the collections. The resulting report contained four ideas relevant to the present project:

1. Foslie's system of organizing his collections into three cabinets (A, B, C) should be maintained because this reflected Foslie's own thinking on corallines and it also facilitated use of the original catalogue of collections (Adey & Lebednik 1967).
2. Foslie's collections should be placed in tact into new boxes to afford greater protection to the original boxes, many of which had become brittle with time and showed signs of deterioration.
3. The nongeniculate coralline collections in Foslie's herbarium should be given formal herbarium numbers as this would facilitate the citation of collections in publication, and also would facilitate the collection curator to find and process collections for loan.
4. A new catalogue of the collections should be produced which included the assigned collection numbers and included updates of information in the Adey & Lebednik (1967) catalogue as required.

The above ideas have now been carried to successful completion. The original boxes in Foslie's herbarium were placed in tact into new brown boxes and photocopies of box lids were glued to the lid of each new box. This work was done mainly by Åse Sarre and Randi Baadsvik and was completed by 1995.

Work on preparing a revised catalogue began soon after, but proceeded slowly at first due to other commitments. During 2003, however, the project became a central focus, and the work on the new catalogue and the numbering of the collections was completed by July 2005.

This project has been a true team effort, with all five authors making significant contributions to the work. In addition, we gratefully acknowledge information (on particular collectors, on the current location of certain material cited on boxes/packets, on correspondence sent to Foslie, on Norwegian locality names) and other assistance (contributions to proofreading, translations, library resources) that was generously offered by Svein Ove Bakke, Davide Bassi, Jenny Bryant, Helen Cohn, John Edmondson, Linda Irvine, Line Johansen, Stein Johansen, Eurico Cabral de Oliveira, Åse Sarre, Sigmund Sivertsen, Evelyn Thor, Jill Thurlow, Liv Guri Velle and Jean Woelkerling. These colleagues all have facilitated the completion of the project and ensured greater accuracy of the final product.

The edition of the International Code of Botanical Nomenclature (hereafter abbreviated ICBN) available at the time of writing (Greuter et al. 2000) was superseded by the Code approved at the International Botanical Congress in Vienna in July 2005, but the latter was still to be published when the present volume went to press. Citations from the ICBN are those in the 2000 edition of the Code, sometimes referred as the St. Louis Code (the site of the 2000 International Botanical Congress).

1 Introduction and general background information

The nongeniculate coralline red algal herbarium of Mikael Heggelund Foslie (1855-1909) is of paramount importance for taxonomic studies of these algae. Nongeniculate corallines encompass those taxa of Corallinales (Rhodophyta) that lack non-calcified segments called genicula (Woelkerling 1988: 1). In the older literature, nongeniculate corallines were commonly referred to as 'crustose corallines', but this is misleading because many nongeniculate species have upright branches, and these always are completely calcified and never produce genicula.

Foslie's nongeniculate coralline herbarium contains many types (see Chapter 2) and numerous other historically important collections that were cited in a long series of Foslie's publications (Appendix 1). Foslie kept his nongeniculate collections separate from his other collections (see below). He divided his nongeniculate coralline collections into a main herbarium (housed by him in three large cabinets, each with 28 drawers) and an 'ancillary herbarium' (Woelkerling 1993: 9), consisting of specimens in 81 open-topped wooden crates. The main herbarium (see Chapter 4) and the ancillary material (see Chapter 5) now reside as distinct units in TRH, Section of Natural History, Museum of Natural History and Archaeology, Norwegian University of Science and Technology in Trondheim, (formerly called the University of Trondheim). Herbarium abbreviations follow Holmgren et al. (1990). With few exceptions, the collections in the wooden crates also are represented in the main herbarium.

To make the collections more accessible to phycologists and to help re-awaken an interest in the taxonomic and ecological problems presented by nongeniculate corallines, Adey & Lebednik (1967) prepared the first catalogue of material in the main herbarium. A number of types were flagged in the catalogue and subsequently commented upon by Adey (1970a). Adey & Lebednik (1967: 1-2) also noted some limi-

tations of their catalogue, namely that information gathered from the specimens had passed through several stages without a careful re-check, and that errors might eventually be corrected in a later version.

The present publication contains an updated catalogue of the main herbarium (Chapter 4) as well as a catalogue of collections in the ancillary herbarium (Chapter 5) and a catalogue of the collections in *Lithothamnium Selecta Exsiccata* (Chapter 6), an exsiccata set prepared by Gjærevoll (1950) from material in the Foslie herbarium. The latter two were not included in Adey & Lebednik (1967).

To facilitate collection citation in publication and the processing of material for loans, all collections in the main herbarium have been assigned official TRH collection numbers during preparation of the new catalogue. Foslie did not systematically number his collections, and the collections were not numbered when Adey & Lebednik (1967) prepared the first catalogue.

As noted by Adey & Lebednik (1967: 1), handwriting on the original labels was often difficult to read, and as a consequence, it is possible that some errors still exist in the new catalogue. All catalogue entries, however, were checked at least twice against original labels to minimize such problems.

In addition to the catalogue listings, the present publication includes some general background information and an analysis of catalogue data along with four appendices and a list of references.

Foslie career milestones

Mikael Foslie was 29 when he took up his first full-time scientific position as a curator at the Museum in Tromsø in 1885. Prior to that time, he had worked in the Norwegian telegraph service (1874-1885), first in the Lofoten Islands, then in Oslo. Foslie moved to the Museum of the Royal Norwegian Society for Sciences and Letters in Trondheim in 1892, where he remain-

ned until his death in 1909.

De Toni (1910), Wille (1911), Printz (1929), and Høeg (1944) published extended biographic sketches of Foslie. Stafleu & Cowan (1976: 863) listed other references to biographic and bibliographic data. A brief tribute also appears in Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1910 on pp. 5-6 as part of the museum director's report, and Nordgaard (1910: 35-36) provided some additional information as part of an account of the collections in the Museum at Trondheim. A summary of Foslie's career milestones is provided in Table 1, and a list of Foslie's scientific publications appears in Appendix 1. The publications list includes both coralline and non-coralline papers as well as publications authored by other phycologists in which Foslie contributed information on corallines. Precise dates of effective publication, where these have been determined, also are provided.

Foslie's work on coralline red algae

Foslie's herbarium includes nongeniculate corallines that he collected as early as May 1876, but his first publication on these algae did not appear until 1890 (Foslie 1890a). Three years earlier, however, *Corallina heimisphaerica* Foslie (1887a: 175, pl. 1), the only geniculate coralline ever described by Foslie, appeared in a paper with a series of other newly described red, brown and green algae. Subsequently, Foslie (1893c: IX) reduced *C. heimisphaerica* to a form of *Corallina officinalis* Linnaeus.

From 1890 onwards, Foslie increasingly concentrated on taxonomic studies of nongeniculate corallines, and after 1896, virtually all of his papers dealt only with these algae. Based on data from his herbarium, Foslie continued to actively collect nongeniculate corallines until 5 August 1908 (Table 1). Foslie described hundreds of new species and infraspecific taxa of nongeniculate corallines and also published accounts of taxa described by other authors. Woelkerling (1984) provided an analysis of Foslie's taxonomic work on corallines together with an index to the taxa mentioned in Foslie's publications.

Foslie's correspondence

Foslie engaged in correspondence with numerous colleagues; these letters contain valuable information relating both to specimens in his herbarium and to taxa dealt with in his publications. Letters sent to Foslie are preserved in the Gunnerus Library of the Norwegian University of Science and Technology in Trondheim, cf. Thor et al (2005). Existing letters Foslie sent to Weber-van Bosse are housed at L (Verheij & Woelkerling 1992); those sent to Bornet, Hariot and Sauvageau are housed at PC (Lamy & Woelkerling 1998: 107); those sent to Farlow are housed at FH; those sent to Setchell are housed at UC (Paul Silva, personal communication); those sent to Børgesen are housed at C (Ruth Nielsen, personal communication) and those sent to Batters are housed at BM (Linda Irvine, personal communication). The location of any existing letters Foslie sent to other colleagues has not been determined.

Foslie's other collections

Foslie kept his other botanical collections separate from his nongeniculate coralline material. In TRH, these other collections are housed in the general TRH herbarium and include 23 collections of vascular plants, 64 collections of mosses, 100 collections of geniculate corallines, and an estimated 7500 collections of other algae. When combined with the nongeniculate corallines, the total number of algal collections assembled by Foslie is about 11,500, somewhat less than Munda's (1964) estimate of 15,000. Foslie also published 21 papers dealing exclusively or mainly with non-coralline algae (Foslie 1881, 1883, 1884, 1886, 1887a, 1887b, 1890a, 1891a, 1891b, 1891c, 1892b, 1892c, 1893a, 1893b, 1893c, 1894a, 1894b, 1896a, 1896b, 1896c, 1905a) in which a number of new species were described. Munda (1964) provided further information on the non-coralline red algae and the brown algae in Foslie's collections.

Table 1. Foslie career milestones. Data based on information obtained from Foslie's publications, correspondence and herbarium during present study, and on information in De Toni (1910), Høeg (1944), Printz (1929) and Wille (1911).

Year	Milestone
1855	21 October: born in Borge, Lofoten Islands, Norway.
?	Developed boyhood interest in natural history and in collecting plants and animals.
1874	Began work as a telegraphist in the Norwegian telegraphic service at Fiskerierne in the Lofoten Islands.
1876	Assumed post as a telegraphist in Lødingen.
1876	May: collected first coralline that is still preserved in his herbarium (C22-3540), a specimen labelled <i>Clathromorphum circumscriptum</i> from Balsfjord near Tromsø.
1879	October: travelled to the Oslo University to meet Prof. Frederik Christian Schübler (1815-1892), who had an ongoing interest in algae.
1880	With Schübler's recommendation, obtained a travel stipend from Oslo University to study algae in East Finnmark. Further stipends were awarded for 1881, 1882, 1883, and 1884.
1880	Schübler arranged with the director of the telegraph service to have Foslie transferred to a telegraphist position in Oslo, where Foslie remained until 1885.
1880	Travelled to Sweden and Denmark (first trip outside Norway).
1881	Published his first paper (Om nogle nye arktiske havalger, Foslie 1881) in which 8 new species and one new variety were described, none of which were corallines.
1882	Sends nongeniculate coralline material to Kjellman, who subsequently (Kjellman 1883: 120, 122, 129, 135; Kjellman 1885: 91, 92, 98, 103) acknowledges Foslie's contributions and cites Foslie's collections in describing three new species.
1884	Published his first paper in German (Üeber die Laminarien Norwegens, Foslie 1884).
1885	Appointed as curator at the Tromsø Museum, a special position created by the Norwegian Parliament upon the recommendation of Prof. Schübler and Prof. Axel Blytt (1843-1898). Retired from telegraph service.
1885-1886	Travelled to England and France during winter months on a stipend from the Oslo University. Spent two months on the Isle of Wight.
1887	Published his first new species of Corallinales, <i>Corallina hemisphaerica</i> , based on specimens collected near Tromsø, Norway (Foslie 1887a).
1890	Published his first paper in English (Foslie 1890a), a floristic account of the algae of East Finnmark. Publication included Foslie's first descriptive accounts of nongeniculate corallines and Foslie's first new nongeniculate species, <i>Lithophyllum zonatum</i> .
1892	January: Moved to Trondheim to an appointment as curator in the Royal Norwegian Society for Sciences and Letters (Det Kgl. Norske Videnskabers Selskab) Museum. Curatorial responsibilities included those for plants and mammals (both until his death in 1909) and for birds (until 1901).
1892	Travelled to The Netherlands, England, and Scotland.
1893	30 January: published a list of the marine algae of the Isle of Wight (Foslie 1893b), the first Foslie paper that included corallines from outside Norway.
1893	April: published for the first time in a journal (Bulletin de L'Herbier Boissier) that was not based in Norway (Foslie 1893d). Described <i>Laminaria schinzii</i> from south-western Africa; no corallines mentioned.
1893	29 September: reduced his first described coralline, <i>Corallina hemisphaerica</i> , to a form of <i>C. officinalis</i> (Foslie 1893c: IX).
1894	Published a monographic account of Norwegian species of <i>Ceramium</i> (Ceramiales, Rhodophyta) (Foslie 1893c).
1895	Published a monograph (Foslie 1895a) on Norwegian nongeniculate corallines that included 23 photographic plates.

Year	Milestone
1896	Described (Foslie 1895b) the first nongeniculate corallines based on types from outside Norway, namely Scotland, the Gulf of California, and the Straits of Magellan.
1896	The Museum of the Royal Norwegian Society of Sciences and Letters purchased Foslie's algal collections for 3700 Norwegian kroner.
1897	26 May: Published the first of a series of papers (Foslie 1897a, 1898c, 1900c, 1900d, 1901d) devoted to criticizing the work of Franz Heydrich (1851-1911).
1899	Travelled to the Republic of Ireland and England (Foslie 1900j 27); published (in August) an account of visit to Roundstone Bay in the Republic of Ireland (Foslie 1899a).
1900	<p>Published an account (Foslie 1900f) of nongeniculate corallines collected during the 1895-1897 Swedish expedition to the Magellan territories (Fuegia). This is the first of ten papers devoted to the nongeniculate corallines collected during major expeditions The others are:</p> <ul style="list-style-type: none"> Foslie (1901b): Danish Expedition to Siam (1899-1900) Foslie (1903c): Expedition to the Maldive and Laccadive Archipelagoes (1899-1900) Foslie (1904b): Siboga Expedition (1899-1900) to the Dutch East Indies (Indonesia) Foslie (1907c): Swedish South Polar Expedition (1901-1903) Foslie (1907d): British National Antarctic Expedition (1901-1904) Foslie (1907e): Percy Sladen Trust Expedition to the Indian Ocean (1905) Foslie (1908a): German South Polar Expedition (1901-1903) Foslie (1908h): Scientific expedition to the Samoa Islands, the New Guinea Archipelago, and the Solomon Islands (1905) Foslie (1912): Scottish National Antarctic Expedition (1902-1904), a one page summary with Foslie listed as author but prepared after Foslie's death by R.N. Rudmose Brown using information extracted from Foslie (1905).
1901	Travelled to The Netherlands to begin work with Weber-van Bosse on the Siboga Expedition corallines (published in 1904).
1904	First publication (Weber-van Bosse & Foslie 1904) in which Foslie is listed as a joint author. No true co-authorship occurs, however, as two parts are written solely by Weber-van Bosse and the third is written solely by Foslie.
1905	Published a major account (Foslie 1905c) of nongeniculate corallines from Norway and other arctic, subarctic and boreal regions.
1906	Publication of the only two coralline papers in which Foslie is a true co-author (Foslie & Howe 1906a, b).
1908	5 August: collected the last corallines that are still preserved in his herbarium (from Gyltskjæret, Bjugnfjorden near Trondheim).
1909	After 1 June: Published the last paper (Foslie 1909b) with descriptions of new taxa (7 new species; 4 new formae; 3 superfluous names; 2 nomina nuda – see Woelkerling 1993: 270 for details).
1909	9 November: died in Trondheim, Norway.
1910	Publication of Foslie's death announcement and a short tribute in the director's report in Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1909: 5-6.
1912	Final publication appears posthumously (see Appendix 1).

2 Foslie's main coralline herbarium: A summary analysis

The following analysis deals exclusively with Foslie's main coralline herbarium, a catalogue for which is provided in Chapter 4. Similar information on the ancillary herbarium appears in Chapter 5, and data on the exsiccate set appears in Chapter 6.

Number of collections and taxa

Foslie's main coralline herbarium contains 3880 collections, substantially more than the estimate of 3000 by Woelkerling (1993: 8). Of the total, 3846 are grouped under the names of 556 species and infraspecific taxa, including one fossil collection (A28-3821) said to contain 4 different species. The remaining 33 collections include five collections identified only to genus level and 28 unidentified and inadequately documented collections.

Foslie's taxonomic thinking evolved rapidly and changed frequently, resulting in a procession of newly described taxa, the shunting of many taxa from one genus to another, the reduction of species to the rank of form, the elevation of *formae* to the rank of species, the placement of various taxa in synonymy with others and the resurrection of synonymous taxa to distinct entities. Woelkerling (1984) provided an analysis of this process based on Foslie's publications. Woelkerling (1984) also included an index to taxa cited in Foslie's publications. One outcome of Foslie's rapidly changing ideas is that the generic name on collections of the same species sometimes varies from box to box in Foslie's herbarium. Only one name, however, is used in the catalogue in Chapter 4, and all variants are counted as belonging to one species.

In general, the names of taxa used in Chapter 4 are those employed by Foslie in his herbarium and in his publications. Subsequent nomenclatural and taxonomic changes, and the current correct application of

the names used by Foslie, have not been taken into account, as this would require extensive reviewing and new research, a task beyond the scope of the present study. Similarly, Foslie's identifications of specimens have not been verified. Foslie also annotated a number of collections to indicate that more than one species was present, and many other collections in his herbarium also are apt to contain more than one species (e.g. see A3-153, B17-2554, C25-3764).

The number of collections per taxon name in the main herbarium varies from 1 to 151. The five most commonly represented names are *Lithothamnion glaciale* (151), *Phymatolithon polymorphum* (129), *Lithothamnion lenormandii* (98), *Lithophyllum incurstantans* (94), and *Lithothamnion laeve* (92). Eighty-one names are represented by at least 10 collections, while 475 names are represented by less than 10 collections, including 217 names represented only by one collection. Nearly all collections in this last group are type collections.

At the time of his death, Foslie's non-geniculate coralline herbarium had become one of the largest of its kind in the world, and while it still is large on a world-scale, its ongoing scientific value is derived from its content and not its size.

Sources of material

The international nature of Foslie's non-geniculate coralline herbarium becomes clearly evident from an analysis of the sources of material in the herbarium. Foslie's own collections account only less than 20% of the collections present. Most collections came from other institutions, from the personal herbaria of colleagues, from voyagers and expeditions, and in a few cases from exsiccate sets or other named series of specimens. These sources are summarized in Appendix 2. Data on collectors and on geographic regions are considered separately below.

Foslie directly obtained material from at least 23 other institutions, including major European herbaria in Berlin, Copenhagen,

Hamburg, Leiden, London, Meise (Belgium), Paris, Stockholm and Vienna, and two major herbaria in North America: the New York Botanical Garden and the University of California, Berkeley. In many cases, the institutional source is indicated in abbreviated fashion on collection boxes/packets or on accompanying annotation slips (Appendix 2, Section A).

Foslie also obtained material from at least 30 personal herbaria of other phycologists (Appendix 2, Section B). Foslie usually used the name of the colleague in recording the source, most commonly with the phrases 'ex herb.' or 'herb.' preceding the name of the colleague (e.g. 'ex herb. Batters', 'herb. Bornet'). Foslie also received material from colleagues without explicitly using the phrases 'ex. herb.' or 'herb.' on boxes/packets. A number of such specimens came from F.S. Collins (personal herbarium now scattered amongst several institutions, see Stafleu & Mennega 1997: 271), H. Kylin (personal herbarium now at LD), and C. Sauvageau (personal herbarium now at PC). Colleagues who sent material 'unacknowledged' on boxes/packets are not included in Appendix 2.

Foslie's herbarium also includes collections from at least 38 scientific voyages and expeditions to various regions from polar to tropical latitudes (Appendix 2, Section C). For ten expeditions (British National Antarctic Expedition, Danish Expedition to Siam, Deutsche Südpolar Expedition, Maldive and Laccadive Archipelagos Expedition, Percy Sladen Trust Expedition to the Indian Ocean, Scientific Expedition to the Samoa Islands, the New Guinea Archipelago and the Solomon Islands, Scottish National Antarctic Expedition, Siboga Expedition, Svenska Expeditionen til Magelansländern, Swedish South Polar Expedition), Foslie authored separate publications on the nongeniculate corallines (Foslie 1900f, 1901b, 1903c, 1904b, 1907c, d, e, 1908h, 1912). The greatest number of collections and the most detailed account involved material from the Siboga Expedition (Foslie 1904b). Foslie also contribu-

ted information on nongeniculate corallines to papers dealing with the Deutschen Tiefsee-Expedition (Reinbold 1907a) and the Harriman Alaska Expedition (Saunders 1901). Many of the specimens from remaining expeditions were cited in other Foslie publications that were not devoted exclusively to single expeditions.

Specimens from seven published exsiccata (Appendix 2, Section D) occur in Foslie's herbarium. With the exception of *Lithothamnium Selecta Exsiccata*, which was prepared in 1950 from duplicate material in Foslie's herbarium (see Chapter 6), only isolated specimens from these exsiccata are present. There is no evidence to suggest that Foslie ever had complete sets of these exsiccata.

Finally, specimens from 18 other named but unpublished series are present (Appendix 2, Section E). The greatest number came from series with the names 'New York Botanical Garden North American Marine Algae' and 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden'. For both of these, M.A. Howe was usually the collector, and Howe also sent the material to Foslie.

Types

Type material of at least 465 species and infraspecific taxa occur in Foslie's main herbarium. This includes 215 taxa with holotypes, 184 taxa with lectotypes, 5 taxa with neotypes, 16 taxa with syntypes, 15 taxa with isotypes, and 30 taxa with isolectotypes. For some taxa, several syntypes, isotypes or isolectotypes occur, bringing the total number of type collections to at least 496 (215 holotypes, 184 lectotypes, 5 neotypes, 23 syntypes, 17 isotypes, 52 isolectotypes). Lectotypes of *Lithophyllum gardineri* f. *obpyramidata* (A28-2776) and *Lithothamnium expansum* f. *repens* (A25-3877) are newly designated here.

Paratypes (specimens cited in a protologue that are neither holotype nor isotype nor syntype, if two or more specimens were simultaneously designated as types (see ICBN Art. 9.5) have not been included in

the above figures. Because Foslie rarely designated holotypes from amongst a series of samples cited in the protologue, there are apt to be very few paratypes (ICBN Art 9.5, Note 3). The identification of any paratypes present requires considerable additional study, a task beyond the scope of the present study.

There are more species of nongeniculate coralline algae represented by type material in Foslie's herbarium than there are in the Paris Museum (PC), the Nationaal Herbarium Nederland Universiteit branch, Leiden (L), and the Natural History Museum (London) (BM) combined. PC has 184 species and infraspecific taxa represented by type material (Woelkerling 1998c: 393), L has 114 species and infraspecific taxa represented by type material (Woelkerling & Verheij 1995: 83) and BM has 96 species and infraspecific taxa represented by type material (determined from information in Tittley et al. 1984). The combined total of 394 is 71 fewer than occurs in Foslie's herbarium at TRH.

Moreover, 84% (465 out of 556) of the nongeniculate coralline species and infraspecific taxa in Foslie's herbarium are represented by type material. Comparable numerical data are lacking for other major herbaria. Based on observational experiences of the senior author at various herbaria, however, it seems unlikely that these figures for TRH are exceeded elsewhere.

With rare exceptions, Foslie did not flag type collections in his herbarium. The first major flagging of types was done by Adey & Lebednik (1967). Soon after, Adey (1970b) dealt with the typification of 233 taxa, including 125 newly flagged holotypes and 47 newly designated lectotypes. Subsequently, Woelkerling (1993) reported 490 types, and in the present volume, the figure has risen to 494.

Refinements of the figures reported in Woelkerling (1993) for the numbers of different kinds of types in Foslie's herbarium reflect discoveries published subsequent to 1993, particularly those of Woelkerling

(1998c). Details of these are provided in relevant type collection entries in Chapter 4. Types of taxa considered synonyms of other taxa by Foslie are usually listed separately in the main herbarium catalogue, as explained in Chapter 3.

Collectors and communicators

Brief biographic notes on collectors and communicators of material in the Foslie herbarium is provided in Appendix 3.

Names of collectors are directly indicated on 2741 (70.7%) boxes/packets in Foslie's nongeniculate coralline herbarium. Collectors also have been determined indirectly for an additional 371 (9.6%) collections from other data on boxes/packets or from protologue or expedition accounts. Over half (192) of indirect determinations involve Siboga Expedition material collected by Weber-van Bosse. Collectors have not been determined for 767 (19.8%) collections. For 397 (10.2%) collections, a communicator is listed in addition to or instead of a collector.

Foslie is listed as collector on 596 (15.4%) collections, but he probably also collected most of the 223 Norwegian collections for which collector information is lacking. Foslie gathered at least 533 collections in Norway (between 1876 and 1908) and 60 in the Republic of Ireland (during a trip in 1899).

Of the other 265 collectors (see Appendix 3), three (M.A. Howe, P. Kuckuck, A. Weber-van Bosse) are each represented by more than 200 collections. Howe's collections come mainly from the Bahamas (72), Puerto Rico (64) and Jamaica (49). Kuckuck's collections come mainly from Croatia (151) and Morocco (36), and Weber-van Bosse's collections come mainly from Indonesia (199) and South Africa (16). Together, the collections of Foslie, Howe, Kuckuck and Weber-van Bosse account for nearly one-third (32.5%) of the collections present.

No other collector is represented by more than 95 collections. Twelve additional collectors (F. Børgesen, F.G. Debray, A. Engelhart, J. Gabriel, J.S. Gardiner, H. Jónsson, E. Norum, L.K. Rosenvinge, C. Sau-

vageau, W.A. Setchell, J. Wille, K. Yendo) are each represented by 42-95 collections. Together, these account for a further 20.2% of collections. The remaining 253 collectors are represented by 1-30 collections, and 161 of these are represented only by 1-2 collections.

Colleagues who communicated (sent) or donated specimens to Foslie are only occasionally acknowledged directly on boxes/packets, but Foslie sometimes mentioned communicators and donators in his publications. Most acknowledged communicators and donators also were collectors, but nine colleagues known to be communicators or donators are not also explicitly listed as collectors on boxes/packets. These are F.E.V. Elfving, R.J. Harvey-Gibson, J.A. Henriques, G.R.M. Murray, A.C. Ullman, and unidentified persons with the family name O'Reilly and Pruvot-Chalon.

Geographic regions and major localities

Collections of nongeniculate corallines from all continents, from islands in all oceans, and from polar to tropical latitudes are present (Appendix 4). In this analysis, the names of geographic regions and the nature of each region (sea, subtidal geological formation, continent, nation, dependent state, dependency, archipelago, island group, island) have been standardized using the *Getty Thesaurus of Geographic Names Online* found at: (www.getty.edu/research/conducting_research/vocabularies/tgn/). One hundred eighteen regions have been recognized. In collection entries (Chapter 4), the geographic region names used are those on or surmised from the boxes/packets, with modern English equivalents given in square brackets as needed. Further information on the associated formatting of these names appears in Chapter 3. In Appendix 4, modern English names are listed in the left-hand column and equivalent names found on packets are given in the adjacent column. The comments to follow are based on the use of modern English names

and mainly on the data presented in Appendix 4.

The names of geographic regions have been determined for 98.4% of the collections in Foslie's nongeniculate coralline herbarium. Inadequate or confusing information has precluded geographic region determination for 61 (1.6%) of the collections.

Almost 24.0% of all collections came from Norway. Eight nations (Australia, Croatia, France, Indonesia, Norway, Republic of Ireland, United Kingdom, United States) are represented by over 100 collections each. Together, these eight nations account for 56.0% of the collections present. Eleven additional nations or dependent states (Algeria, Bahamas, Canada, Denmark, Greenland, Iceland, Jamaica, Japan, Puerto Rico, Sweden, U.S. Virgin Islands) are represented by 50-99 collections each, and together, they account for another 19.0% of all collections present. The remaining 24.5% of collections, excluding those whose geographic region could not be determined, come from the other 99 recognized regions. Of these, 27 regions are represented by only 2-5 collections, and 24 regions are represented by only one collection. Additional data for five selected nations follows.

Within Australia, 79 collections came from Victoria, 59 from South Australia, 2 from Western Australia, 2 from Tasmania, 1 from Queensland, and 12 from unspecified localities within the country.

Within Canada, 8 collections came from British Columbia, 24 from the Northwest Territories, 17 from Newfoundland, 3 from Labrador, 24 from Nova Scotia, and one from Quebec. All of the Northwest Territories collections were gathered during the Second Norwegian Polar Expedition in the Fram (1898-1902).

Within France, 163 collections came from the Atlantic, 88 from the Mediterranean, and one fossil collection from inland regions.

Within the United Kingdom, 63 collections came from England, one from Northern Ireland, 32 from Scotland, and 5 from

Wales. The United Kingdom dependencies of the Channel Islands and the Isle of Man are listed separately.

Within the United States (excluding Hawaii), 19 collections came from Alaska, 78 from California, 24 from Florida, 25 from Maine, 26 from Massachusetts, 1 from New Hampshire, 1 from New York, 5 from Rhode Island, and 13 from Washington State. For two additional collections, insufficient or confusing locality information is given and thus the state from which the collection came is uncertain. One collection is marked Isle of Shoals (some islands in the Isles of Shoals are in Maine while others are in New Hampshire), while the other is marked with both California and Alaska. The Hawaiian Islands, represented by 12 collections, is listed separately in Appendix 4 because they constitute an island group in the Pacific Ocean over 3800 km distant from mainland North America (Abbott 1999: 3; Abbott & Huisman 2004: 3). The United States dependencies of Puerto Rico and the U.S. Virgin Islands also are listed separately.

Other categories of information

Habitat data. Habitat data of some sort is recorded for 1713 (44%) of the 3880 collections. Recorded substrates for attached corallines include pebbles, stones, rock, seagrasses, other corallines, other algae, mangroves, bark, animals (soft corals, hard corals, shells, snails, tube worms, chitons, hydroids) and sea refuse (porcelain, iron). Some specimens are unattached (i.e. rhodoliths). The most unusual habitat was the stomach of a Haddock (*Melanogrammus aeglefinus*) discovered at the Ravnkloa fish market in Trondheim (TRH collection C6-3034).

Non-fossil specimens were collected by hand from intertidal or shallow subtidal areas, or caught in fishing nets, or dredged. Collection depth data must be viewed with caution because depth estimates based on dredging often are imprecise. Within Foslief's herbarium, the greatest recorded collection depth 135 fathoms

(247 m), for a collection from Tuvalu. The greatest confirmed depth for a living coralline is 268 m (Littler et al. 1985) for a specimen off San Salvadore Island, Bahamas. Foslief's herbarium also contains a few fossil specimens collected from about 2 m above high tide to 3500 feet (1067 m) above sea level.

Prepared microscope slides. There are prepared microscope slides for 43% (1679) of the collections in Foslief's nongeniculate coralline herbarium. Most of these were prepared for Foslief by commercial slide making companies. Many of the collections containing slides also have small slips of paper with cell measurements or less commonly with conceptacle measurements. Although Foslief sometimes used this data in publication, most of Foslief's taxonomic judgements were based on morphological rather than anatomical data.

Published figure annotation (PFA) data on collections. References to published figures occur on 838 (21.6%) of the collections. Of this total, 594 refer exclusively to figures in Printz (1929), 148 refer exclusively to figures in various Foslief publications (Foslief 1891a, 1895a, b, 1903c, 1904b, d, 1907c, 1907e, 1908a), and 92 refer to figures that were published both in Foslief's papers and in Printz. There also are references on two collections to figures published by Kjellman (1883, 1889) and on one collection each to figures published by Heydrich (1901a) and by Crouan & Crouan (1867). All references to figures in Printz were added to collections after Foslief's death. The specimens shown in some figures in Printz (1929) are housed in other herbaria, while not all Printz figures of specimens in TRH are cross-referenced on collection boxes/packets.

Comparisons with the 1967 catalogue

In publishing the first catalogue of the Foslief herbarium, Adey & Lebednik (1967: 2) anticipated publication of an updated version. The present catalogue represents that update and an expansion of informa-

tion provided in the 1967 catalogue. Some comparisons follow.

The updated catalogue of the main nongeniculate coralline herbarium (Chapter 4) includes separate entries for infraspecific taxa recognized by Foslie, and the types of these taxa have been identified. Entries in Adey & Lebednik (1967) were only to species level, and the types of most infraspecific taxa were not identified. All 3880 collections in the new catalogue are listed individually. By contrast, a number of the 2736 entries in Adey & Lebednik (1967) involve multiple collections being grouped under one entry. The grouped entries can involve collections belonging to different taxa, or from different localities, or with different collecting dates, or from different habitats, or some combination of these. Woelkerling (1993: 8) estimated that nearly 3000 collections were present in the main herbarium, but the present study has demonstrated that considerably more occur.

Seventeen collections listed in the original catalogue (Adey & Lebednik 1967) were not found during the present study. Nevertheless, entries for 'missing' collections have been included in the present catalogue and given TRH collection numbers. Adey & Lebednik (1967) usually grouped all boxes with the same species, locality and date data under single entries, indicating how many boxes were involved. In the present catalogue, each box has been entered and numbered separately, but forty such boxes reported in Adey & Lebednik also appear to be missing or possibly involve typographical errors of reporting. Separate entries have not been prepared for apparently missing duplicates.

The updated catalogue also has entries for 294 collections that were not listed in Adey & Lebednik (1967). Ninetyone of these definitely were not known to Adey & Lebednik at the time their catalogue was produced. Thirty of these 91 had been on loan for some years before 1967 but were only returned in 1995 after they were re-

discovered at another university long after the death of the person who had borrowed them. The other 61 collections unknown to Adey & Lebednik (1967) were found during 1995 in a carton remote from the Foslie herbarium. That carton also contained a number of slides reported missing by Woelkerling (1993), a number of small boxes with fragments used to make slides or set aside by Foslie for some other purpose, and a number of non-coralline collections, mostly referable to *Peyssonnelia*. The slides and small boxes now have been reunited with the rest of relevant collections. It is unclear why the remaining 203 collections (including 27 with inadequate collection data) were not included in the original catalogue (Adey & Lebednik 1967).

Finally, the two aims of Adey & Lebednik (1967) were to provide a catalogue of collections in Foslie's main nongeniculate coralline herbarium and to flag type collections. These two aims also have formed part of the present project, but in addition, catalogues of the ancillary herbarium and *Lithothamnium Selecta Exsiccata* have been provided, formats for entries have been standardized, collections in the main herbarium have been numbered, more background information on Foslie and his research has been included, a summary analysis has been prepared, and four appendices dealing with Foslie's publications, collection sources, collectors and communicators, and geographic regions have been added. The present catalogue, then, constitutes a much expanded version of the original catalogue, and hopefully, many of the errors in the original catalogue, for which Adey & Lebednik (1967: 1) apologized, have been corrected.

3 Formats used in catalogues

Main coralline herbarium catalogue

Foslie housed nongeniculate collections in three large wooden cabinets, each with 28 drawers. Within each drawer, collections usually were grouped by species. When Adey & Lebednik (1967) prepared the first catalogue, the wooden cases were identified as A, B, and C and the drawers in each were listed as 1-28. In 1981, the collections were shifted into a fireproof room and placed in new cases. The organization described by Adey & Lebednik (1967), however, was retained, with cabinets designated A, B, and C and shelves numbered 1-28. Within their catalogue, Adey & Lebednik (1967) grouped entries by species, and within each 'drawer', entries were organized alphabetically by specific epithet. Adey & Lebednik (1967) did not list taxa below the rank of species.

The basic organization used by Adey & Lebednik (1967) has been adopted in the present catalogue. Thus, entries are sequential by case and drawer. Entries within each 'drawer' are organized alphabetically by specific epithet, and within each species, infraspecific taxa also are listed alphabetically by final epithet. Except where noted, names of taxa used are those appearing on boxes/packets. For some taxa, Foslie applied several different generic names to a species at various times, but he did not update the generic names on his boxes to reflect his latest thinking. For *Dermatolithon hapalidioides* in Drawer A18, for example, some boxes have the generic name *Dermatolithon*, others have *Lithophyllum*, others have *Lithospora*, others have *Melobesia*, and one has *G.* (meaning *Goniolithon*). In these instances, all entries are placed under the last generic name used by Foslie in publication, irrespective of what is written on the box/packet.

In general, types are listed under original names or cross-referenced under ori-

ginal names, even though Foslie may have treated such taxa as heterotypic synonyms of other taxa. This has been done to make it easier to locate type collections in the catalogue. Examples include *Lithothamnion adplicitum* (A18-1183), *Melobesia simulans* (A18-1242), and *Lithophyllum californiense* (A20-1295).

Brief notes on the history of each taxon from inception to the time of Foslie's death are included for each taxon; such information was not provided by Adey & Lebednik (1967). These notes also reflect changes in Foslie's thinking about the status and rank of the taxon, but they do not include changes that have occurred after Foslie's death.

Except where noted, names are spelled in the same way as they appear on boxes/packets (and in Foslie's publications) and in the original catalogue of Adey & Lebednik (1967). Errors in orthography have not been corrected (see ICBN, Arts 60-62, Greuter et al. 2000).

The list of individual collections for each taxon followed no particular order in Adey & Lebednik (1967), and in a number of cases two or more collections were grouped together under single entries. In the present catalogue, by contrast, individual collections for each taxon are almost always ordered alphabetically, first by collector, then by geographic region, then by locality, and then chronologically by date, and all collections have separate entries. Locality information for Kuckuck collections from the Adriatic Sea remains a problem because the amount of information varies from collection to collection, because some collections were gathered between two cited islands, and because the names of some islands have changed since the time of Kuckuck.

Entry for each main herbarium collection. Entry for each main herbarium collection is divided into ten fields separated by semicolons in the following manner:

Collector; geographic region; details of collection locality; habitat information; date of collection; list of accompanying microscope slides; other collection data; listing of published figure annotations (pfa) written on

box or packet; any additional notes about the collection; **TRH collection number**.

All pertinent information with each collection has been placed in the relevant field. Unless otherwise indicated, the information on collections is handwritten. Any clarifying information not mentioned on or in the box or packet is enclosed in square brackets. If there is no information for a particular field, that field contains a statement in square brackets such as '[country uncertain]', '[geographic region uncertain]', '[no locality data]', '[no habitat data]', '[no date]', '[no slides]', '[no other collection data]', '[no pfa]', '[no notes]'. In cases where collector information is lacking, '[Anon.]' is entered in the collector field. All TRH numbers are newly added in boldface and are not enclosed in square brackets. Additional explanatory notes for particular fields follow.

Collector. Family names of collectors are written out in full, even if initials or abbreviated names were written on the herbarium box or packet. Two of the most common abbreviations are 'M.F.' for Mikael Foslie, and 'L.K.R.' for Lauritz Kolde-rup Rosenvinge. Initials of first names are not included unless two or more persons with the same family name are represented amongst the collectors. One example is F.S. Collins and J.F. Collins. Sometimes, collectors were not listed the boxes or packets but are otherwise known (usually through mention in Foslie's publications). These collectors have been included in square brackets for relevant entries. The most common omission was Weber-van Bosse, who collected all of the material during the Siboga Expedition. A complete list of collectors and brief biographic notes are provided in Appendix 3.

Geographic region. Names of geographic regions (see Appendix 4) are based on information on or in boxes/packets. Nearly 2200 boxes/packets, however, have collection locality details but without mention of a geographic region. For all but 85, the geographic region has been surmised

from locality data provided and added in square brackets. The most frequent additions are '[Indonesia]' for virtually all of the Siboga Expedition collections and '[Norway]' for many specimens collected by Foslie.

In cases where the name of the geographic region has changed since the time of collection or is not in English, the original name on the box or packet is followed in square brackets by the English equivalent and/or the modern English name (see Appendix 4). One common example involves Børgesen collections from the Danish West Indies (written as Vestindien on the boxes/packets). These islands were sold to the United States by Denmark in 1917. In this example, the geographic region in catalogue entries usually reads 'Vestindien [as used by Børgesen, = Danish West Indies, now the U.S. Virgin Islands]'

With few exceptions, geographic region names used in collection entries are land-based (continents, nations, dependent states, islands, archipelagos, etc) (see Appendix 4). Marine-based names (e.g. Adriatic Sea, Red Sea) have been employed in collection entries only in cases where such names appear on boxes/packets and it was not possible to determine a land-based country from the other data present. Marine-based names also are used for submerged regions that lie in international waters. Examples are:

Adriatic Sea [country uncertain]

Caspian Sea [country uncertain]; 40°20'N
52°3'E

Red Sea [country uncertain]; [no other
locality data]

Persian Gulf [country uncertain]; Gulf of
Bahrain

Saya de Malha Bank [Indian Ocean]

The phrase 'country uncertain' is used when other locality data occurs but is insufficient to determine the country involved.

The phrase 'geographic region uncertain' is used when there is no land-based or marine-based locality data for a collection and in cases where any locality information present is so general or vague that a land-

based or marine-based geographic region cannot be confidently identified.

Details of collection locality. Any locality information other than geographic region is included in this field. Modern equivalents of older names, where these have been determined, are enclosed in square brackets. One example is the Norwegian locality 'Skjørn, Dalsøren [now Stjørna, Daleøra]'. Name updates for Norwegian localities are based on information in the three volume Index to Names on 1:50000 Scale Maps of Norway Series M711 (Topographic Main Map Series) produced in 1990-1991 by the Forsvarets Kart-tjeneste. For collections where no other locality information is provided, the field reads '[no other locality data]'

Habitat data. Information on collection depth, substrate, and other habitat features are included in this field when they have been written on the box/packet, or occur on annotation slips inside boxes/packets. Collection depth data are often written in an abbreviated form (e.g. 2-4 m or 2-4 fv.) on boxes/packets, but in catalogue entries, these have been standardized to read 'collection depth: x fathoms' or 'collection depth: y metres' with the measurement name written out in full. For a number of fossil and subfossil specimens, collection level above high tide is recorded on boxes either as 'm o.h.' (meaning 'meter over havet' or 'metres above sea level') or 'f.o.h.' (meaning 'favner over havet' or 'fathoms above sea level'). These entries have been standardized to read 'collection level: ___ m o.h. [= metres above sea level]' and 'f.o.h. [= fathoms above sea level]'. Habitat data in languages other than English are enclosed in quotation marks and includes a translation. Habitat data in English are not enclosed in quotation marks.

Date of collection. Collection date data are written in day/month/year order with the month given in Roman numerals (e.g. 4.iv.1900, ix.1897). Undated collections are noted with '[no date]'.

Accompanying microscope slides. Any associated slides are listed in this field, including numbers on the slide. Although some slides (with or without numbers) were sent from colleagues, Foslie had most slides prepared commercially as ground sections (rather than microtomed sections) by firms including R.A. Andersson in Uppsala, R. Fuess, Steglitz by Berlin, and P. Jacobsen in Christiania (now Oslo). In some cases (e.g. in B1-1611) slides of decalcified microtome sections are present, but without indication of who prepared them.

Some slides remained unnumbered; others were labelled with a number assigned by the collector or communicator. These include many slides prepared from Siboga Expedition collections or from collections sent by M.A. Howe. Still other slides were numbered by Foslie in an incomplete running sequence from 1 to 1733. Even within the running sequence, two or more slides from the same collection occasionally have the same number, and in at least one instance the same number (847) occurs on slides belonging to different collections (A4-182 and A14-737).

Other collection data. Any other box/packet information such as field collection numbers, the name of the person who sent the material (as distinct from the collector) and the origin of the material (e.g., the Paris Museum, the Farlow herbarium) is included in this field. If the material originated from another herbarium, the standard herbarium abbreviation (see Holmgren et al. 1990) is included in bold face in square brackets. One example is 'ex herb. Bot Mus Kbh. [C]'. Standard herbarium abbreviations also are used to indicate the institution in which personal herbaria are now lodged. One example is 'ex herb. Bornet [PC]'. Information on institutional lodgement is based on direct knowledge of the first author or has been taken from Stafleu & Cowan (1983 et seq.) and/or Stafleu & Mennega (1992 et seq.). Algal collections that were housed at K in Foslie's time now are lodged at BM.

Marshall A. Howe sent Foslie many collections marked with a collection number

that was assigned by Howe and not by the New York Botanical Garden [NY], where Howe was based. In most cases, however, there is no explicit indication that the number was assigned by Howe. Examples of 'cryptic' Howe number annotations include 'N.Y.B.G. 5334', 'N.Y.B.G. nr. 5493', and 'New York Bot. Garden no. 3627'. Occasionally, however, the box annotation clearly associates the number with Howe and not NY, as for example 'leg. M.A. Howe nr. 5041' on the lid of A14-729. Howe collection numbers are recorded here in the 'Other collection data' field, while references to NY are recorded in the 'Notes' field. In some cases, the Howe collection number is written on accompanying slides, and this is indicated in the 'Accompanying microscope slides' field.

Information concerning expeditions/voyages during which material was collected also is included in this field if it appears on or in the box/packet. Brief information on these expeditions/voyages is provided in Appendix 2. In catalogue entries, the name of the expedition is written out in full even though it is abbreviated (sometimes rather cryptically) on the box or packet. If station and collection numbers occur, these also are provided. Examples are 'Siboga Expedition, station 258, collection 1262' and 'Swedish South Polar Expedition 1901-1903, station 35'. For reasons unknown, some expeditions were not mentioned on or in boxes/packets by Foslie, and, thus, are not mentioned in individual entries. The expeditions are, however included in Appendix 2.

Published figure annotations on boxes or packets. References to published figures written on or in boxes/packets are included in this field. The information on the box/packet is often cryptic or difficult to interpret. One example 'L.M.' or 'Lithoth. Monogr.' (both meaning 'Lithothamnia Monograph' and standing for Printz 1929). A second example is 'Norw. Lith.' (meaning 'Norwegian Lithothamnia' and standing for Foslie 1895a). As a consequence, the information has been transformed into a

standard format, an example of which is; 'pfa: Printz 1929, pl. 53, fig. 3'. In this example, 'pfa' is an acronym for 'published figure annotation', 'Printz 1929' is the paper in which the figure appears, and the remaining information relates to the particular figure in the publication. Only references actually written on or in the box or packet are included. Photographs of a number of type and other collections have appeared in publications, but are not included in catalogue entries unless mentioned on or in the box/packet. If no published figure annotation exists this is recorded as '[no pfa]'.

For some collections, Foslie provided annotations for photographs had been taken for which no published figures have been found. For some other collections, Foslie had placed fragments for photography in separate little boxes and annotated that these were for photography, but again no prints have been found. Such annotations have been recorded in the Notes section as no published figures appear to exist.

Notes. Any other information relevant to a particular collection is presented in this field, including data relating to types. Foslie almost never explicitly designated types or annotate boxes/packets with typification information. Boxes/packets containing type material, however, have been so annotated by other taxonomists, particularly in conjunction with the studies of Adey & Lebednik (1967), Adey (1970), and Woelkerling (1993). In catalogue entries, the nature of the type material is noted, and one or more references to papers containing additional information on or studies of the type are listed. An example is: '**Lectotype** of *Gonio-lithon mamillare* f. *occidentalis*. Additional data — Woelkerling 1993: 161 & Woelkerling 1998: 292.'

Many collections contain annotations on the box/packet or on slips of paper (printed or handwritten or both) in the box/packet. In general, information on annotation slips or on boxes/packets not mentioned elsewhere appears in the Notes field. However, annotation slips with cell, spore, conceptacle, or other measurements, and annotation slips

exactly duplicating information on box lids or packets normally are not mentioned in catalogue entries.

TRH collection number. This number is newly assigned and should be used when requesting the loan of material and when citing the collection in publication.

Catalogue of ancillary material and Exsiccata catalogue

The format used for individual entries in the Catalogue of Collections in Foslie's Ancillary Herbarium (Chapter 5) follows that for collections in the main herbarium. These collections, however, have not been assigned TRH collection numbers.

The format used for individual entries in the Catalogue of Specimens in *Lithothamnium Selecta Exsiccata* (Chapter 6) follows that for collections in the main herbarium, except that TRH collection numbers have not been assigned.

4 Revised catalogue of collections in the main Foslie coral-line herbarium

About the collection

The format used in this catalogue for collection entries has been explained in Chapter 3.

Foslie housed many of his collections in round paper boxes of various sizes that were used by pharmacists and confectionary manufacturers of that period Woelkerling (1993: 8). Foslie also housed a few collections in small, quadratic, two-piece tablet (pill) boxes of the same vintage. These have sliding-lids that completely enclose the box bottom. In addition, Foslie commonly retained collections sent by others in their original paper boxes. These include some of the collections in green boxes sent by Howe from the New York Botanical Garden. Finally, a number of small epiphytic species were housed in paper packets rather than boxes.

Over time, many of the original boxes had become brittle or damaged, and by the early 1990's, some also were beginning to come apart at the seams. Because Foslie wrote collection or other information on the lids (and sometimes also on the bottoms) of these boxes, steps were taken to afford protection and prevent further deterioration of the original paper boxes by placing them into new, sturdy, more or less square, brown boxes. Photocopies of the original lids were then affixed to the outside of each brown box. This took many months to complete by TRH staff members. When collection numbers were assigned as part of the present study, each also was affixed to the top and bottom of the new brown box.

As entries for the present catalogue were prepared, it occasionally became necessary to distinguish between the new brown box and the original box or boxes that each new box now enclosed and protected. In these cases, the new box is usually referred to as the 'brown box' or 'newer brown box'. When the phrase 'original box'

is used or the word 'box' is used alone, it refers to the original box in which the collection was housed by Foslie. This also applies to packets found within some of the original boxes. Sometimes the shape or size of the original box also is mentioned: examples are 'large round box', 'small round box' and 'small quadratic box'.

Not all of Foslie's collections were housed in round paper boxes or sliding-lid boxes, and in most cases, such collections have not been re-housed in new

brown boxes. These include collections affixed to pieces of herbarium paper, collections housed in packets, in wooden cigar boxes, in metal tins, in larger more sturdy paper boxes, and collections housed in large 'open boxes' that lack lids. The last category usually involves collections with numerous specimens or with very large specimens. The housing of a collection in an 'open box' is usually noted in the relevant entry.

Revised catalogue

Case A, Drawer 1

During the present study, several loose photographs of TCD material of *Mastophora hypoleuca* were found in Drawer A1. These have been placed in an envelope marked 'Photographs of TCD specimens of *Mastophora hypoleuca*. See entry A1-25 which contains type fragments from TCD'.

affinis, Mastophora [originally described as *Mastophora affinis* (Foslie, 1904b: 71) but subsequently (Foslie 1909b: 53) reduced to the rank of form and treated as *M. macrocarpa* f. *affinis*. Name not updated on only collection in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Lectotype: L**, 943.7-29 (Woelkerling & Verheij 1995: 35).

Weber-van Bosse; [Indonesia]; Tual [Anchorage], Kei Islands; [no habitat data]; 12.-16.xii.1899; one unnumbered slide; Siboga Expedition, station 258, collection 1262; [no pfa]; [Note: **Lectotype fragment** of *Mastophora affinis* Foslie. Additional data — Verheij & Woelkerling 1992: 276, Woelkerling 1993: 22 and Woelkerling & Verheij 1995: 35. Reasons why this specimen is lectotype rather than holotype (as indicated in Verheij & Woelkerling 1992 and Woelkerling 1993), are explained by Woelkerling & Verheij 1995]; **TRH A1-1.**

atlantica, Mastophora [originally described as *Mastophora atlantica* Foslie (1906b: 27) within the subgenus *Lithoporella*. Subgenus *Lithoporella* (Foslie 1903b: 25) subsequently (Foslie 1909b: 58) raised to the rank of genus and *Mastophora atlantica* then (Foslie 1909b: 59) transferred without change in rank into *Lithoporella*. Names not updated on collections in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Holotype: TRH**, A1-3 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Cruxbay [= Cruz Bay]; collection depth: ca 10 fathoms; 1905-1906; [no slides]; Børgesen collection number 2095; [no pfa]; [Note: **Holotype** of *Mastophora atlantica* Foslie. Additional data — Woelkerling 1993: 32 and Woelkerling 1998c: 368. The Børgesen number 2095 also occurs on another collection of *M. atlantica* (A1-2)]; **TRH A1-3.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udenfor landfogedboligen [= outside the landbailiff house]; 'i fjæren paa sten [= in the tidal zone on stones]'; 1905-1906; slides 1209-1211; Børgesen collection number 1727; pfa: Printz 1929, pl. 73, fig. 9; [Note: collection includes a small box with material used for the Printz photo]; **TRH A1-4.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Meven Cay, udfor [= outside] Cruxbay [= Cruz Bay]; collection depth: 10 fathoms; 23.vi.1906; slide 1222; Børgesen collection number 2095; [no pfa]; [Note: the Børgesen number 2095 also occurs on another collection of *M. atlantica* (A1-3)]; **TRH A1-2.**

canaliculata, Mastophora [originally described as *Mastophora canaliculata* (Harvey 1859: 310) where Foslie retained it in his herbarium but without mention in publication]. **Lectotype: TCD**, unnumbered (Woelkerling 1978: 211).

Müller [= F. von Mueller]; [Australia]; [Victoria], Portland Bay; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 73, fig. 11; [Note: collection consists only of fragments]; **TRH A1-5.**

Müller [= F. von Mueller]; [Australia]; [Victoria], Port Phillip [Bay]; [no habitat data]; [no date]; [no slides]; ex herb. Areschoug [**S**]; pfa: Printz 1929, pl. 73, figs 10, 12; [Note: collection consists of fragments of a collection presumed to be in the Areschoug herbarium]; **TRH A1-6.**

[Anon.]; Australia; [no other locality data]; [no habitat data]; [no date]; two unnumbered slides; ex herb. Reinbold [dispersed amongst several institutions, according to Stafleu & Cowan 1983: 698]; [no pfa]; [Note: fragments only]; **TRH A1-7.**

caribaeum, Lithophyllum [originally described as *Lithophyllum decipiens* f. *caribea* (Foslie 1906b: 18) but subsequently (Foslie 1907a: 22) raised to the rank of species, namely *Lithophyllum caribaeum*, where Foslie retained it in publication]. **Lectotype: TRH, A1-8** (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; [no habitat data]; i.-iii.1892; slide 362; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. decipiens caribaeum* forma']; **TRH A1-9.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; 'Fra klipper i fjæren ved "Northside" [= from cliffs in the tidal zone at "Northside"]'; 1905-1906; slide 1200; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. decipiens caribaeum*' and 'obs. heterocyst lign. celler i præp. [= heterocyst-like (trichocyte-like) cells observed on slide]']; **TRH A1-10.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, [Cruz Bay]; [no habitat data]; 1905-1906; slides 1257-1258; Børgesen collection number 1161; [no pfa]; [Note: box marked '*Lithoph. decipiens* f. *caribaea?* *caribaeum?*']; **TRH A1-11.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Cruxbay [= Cruz Bay]; 'I fjæren [= in the tidal zone]'; 24.iii.1906; slide 1220; Børgesen collection number 2196; [no pfa]; [Note: box marked '*Lithoph. decipiens* f. *caribaeum*'. Collection A-13 has same Børgesen collection number but a different collection date]; **TRH A1-12.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Cruxbay [= Cruz Bay]; 'I fjæren [= in the tidal zone]'; 14.iii.1906; slide 1254; Børgesen collection number 2196 'delvis [= in part]'; [no pfa]; [Note: box marked '*Lithoph. decipiens* f. *caribaea?* *caribaeum?*' and '(og *L. interm.* [= and *Lithophyllum intermedium*)]'. Collection A-12 has same Børgesen collection number but a different collection date]; **TRH A1-13.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Store [= Large] Cruxbay [= Cruz Bay]; 'I fjæren [= in the tidal zone]'; 5.iii.1906; slides 1215-1216; Børgesen collection number 1783; [no pfa]; [Note: box marked '*Lithoph. decipiens* f. *caribaeum*']; **TRH A1-14.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas Harbor; [no habitat data]; i.-iii.1892; slide 363; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 7; [Note: **Lectotype of *Lithophyllum decipiens* f. *caribea*** Foslie. Additional data — Woelkerling 1993: 48]; **TRH A1-8.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas; 'In portu [= in the port]'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. decipiens* forma *caribeaum*' and '(s. med [= mixed with] *G. noratisii*)'. Collection not included in Adey & Lebednik 1967]; **TRH A1-3809.**

Howe; Bahamas; SE end of Watling Island; in a cavern, low littoral, near low water mark; 29.xi.1907; slide 1675; [Howe collection number] 5203; [no pfa]; [Note: 'New York Botanical Garden' [**NY**] printed on slip affixed to box lid]; **TRH A1-15.**

Howe; Jamaica; Fort Clarence, near Kingston; [no habitat data]; 21.xii.1906; slide 1395; [Howe collection number] 4647a; pfa: Printz 1929, pl. 53, fig. 8; [Note: divided by Foslie

- into 4647a & b, the latter now filed under *Lithophyllum intermedium* in Drawer A6 (A6-278). 'New York Botanical Garden' [NY] printed on slip affixed to box lid]; **TRH A1-17.**
- Howe; Jamaica; Fort Clarence, near Kingston; on stones at low water mark in a littoral cavern; 21.xii.1906; slide 1394; [Howe collection number] 4646; [no pfa]; [Note: 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip affixed to box lid]; **TRH A1-18.**
- Howe; Jamaica; Kingston Harbor, north shore; on pebbles; 27.xii.1906; slide 1396; [Howe collection number] 4697; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid]; **TRH A1-16.**
- Howe; Jamaica; Montego Bay, Bogue Island; on stones at low water mark; 9.i.1907; slide 1458; [Howe collection number] 4962; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid]; **TRH A1-19.**
- Howe; Porto Rico [= Puerto Rico]; Culebra; near low water mark; 4.iii.1906; slide 1077; [Howe collection number] 4240; [no pfa]; [Note: box marked 'N.Y.B.G.' [NY] and '*Lithoph. decipiens* f. *caribaea caribaeum*']; **TRH A1-20.**
- Howe; [Puerto Rico]; Guanica Harbor; on rocks and pebbles at low water mark mouth of the harbour; 28.vi.1903; one unnumbered slide; [Howe collection number] 2660; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY]. Adey & Lebednik 1967: 14 omit mention of slide]; **TRH A1-21.**

conjuncta, Mastophora [originally described as *Mastophora conjuncta* Foslie (1907b: 30) within the subgenus *Lithoporella*. Subgenus *Lithoporella* (Foslie 1903b: 25) subsequently (Foslie 1909b: 58) raised to the rank of genus and *Mastophora conjuncta* then (Foslie 1909b: 59) transferred without change in rank into *Lithoporella*. Names not updated on collections in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** TRH, A1-23 (see below).

- Vanhöffen; [Cape Verde]; St. Vincent; [no habitat data]; ix.1901; [no slides]; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box placed with other collections of *Mastophora (Lithoporella) conjuncta* in Foslie's herbarium but marked that *M. conjuncta* is mixed with *Lithoth. ectocarpon*]; **TRH A1-22.**
- Weber-van Bosse; [Sénégal]; Cape Verte [= Cape Verde], Cape Blanco; [no habitat data]; 29.xii.1895; slides 1557, 1563; [comm. Weber-van Bosse]; pfa: Printz 1929, pl. 73, fig. 8; [Note: **Lectotype** of *Mastophora conjuncta* Foslie. Additional data — Woelkerling 1993: 61. It is uncertain whether Cape Blanco refers to a part of Cape Verde or to a Cap Blanc in Mauritiana. Box annotated by Foslie that material is mixed with *Lithothamnion ectocarpon*. Slide '1577' also cited on box housing lectotype of *Lithothamnion ectocarpon* (C18-3335)]; **TRH A1-23.**

decipiens, Lithothamnion (f. caribea). See listing above for *caribaeum*, *Lithophyllum*.

foliacea, Mastophora [originally described as *Melobesia foliacea* Kützinger (1843: 385) but subsequently (Kützinger 1858: 48) transferred without change in rank into *Mastophora* and retained in that genus by Foslie in his herbarium but without mention in publication]. **Lectotype:** L, 941.149-53 (Woelkerling & Verheij 1995: 52).

- Daemel; [Australia]; Nova Hollandia borealis [= northern Australia]; [no habitat data]; [no date]; [no slides]; ex herb. Areschoug [S], 'ded. [= given by] Möller'; [no pfa]; [Note: Adey & Lebednik 1967: 14 mistakenly list collector as 'Daniel' while 'Darnil' is collector name listed on box. Correct name of collector (Daemel) given in Sonder 1871: 35, 54]; **TRH A1-24.**

hypoleuca, Mastophora [originally described as *Mastophora hypoleuca* (Harvey 1849a: 108) where Foslie retained it in his herbarium but without mention in publication]. **Lectotype: TCD**, unnumbered (Woelkerling 1980: 238).

Guenzius [= Gueinzius]; [South Africa]; Port Natal; [no habitat data]; [no date]; [no slides]; [ex] Herb. Trinity College Dublin [**TCD**]; [no pfa]; [Note: **Type fragments** of *Mastophora hypoleuca* Harvey. Additional data — Woelkerling 1993: 119. Box marked 'prøve af 2 ekspl. med koniske konc. [= sample of two specimens with conical conceptacles]'. Photographs of a specimen in **TCD** and of the protologue plate in Harvey 1849 are housed in a separate envelope in Drawer A1]; **TRH A1-25**.

[Gueinzius]; [South Africa]; Port Natal; [no habitat data]; 1843; [no slides]; [ex] Herb. Hofmus. Wien [**W**]; [no pfa]; [Note: box marked '*Mastophora stelligera* End. et D. = *Mastoph. hypoleuca*' and 'legit. Communic Pöppig Collectio Alg. C.M. Diesing']; **TRH A1-26**.

Weber-van Bosse; [South Africa]; Natal, Illovo; [no habitat data]; [no date]; nine unnumbered slides; [no other collection data]; [no pfa]; [no notes]; **TRH A1-27**.

lamourouxii, Mastophora [originally described as *Mastophora lamourouxii* (Decaisne ex Harvey 1849a: 108), where Foslie retained it in publication]. **Lectotype: TCD**, unnumbered (Woelkerling 1980: 238).

Engelhart; Australia; [South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A1-28**.

Harvey; [Australia]; [Western Australia], Fremantle; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 75, fig. 4; [Note: fragments of a Harvey specimen said by Printz (1929, legend to fig. 4) to come from the herbarium of Areschoug [**S**]. Collection includes box with fragments for 'fotos of Hansman']; **TRH A1-29**.

Müller [= Mueller]; Australia; Victoria; [no habitat data]; [no date]; one unnumbered slide; ex herb. Areschoug [**S**]; pfa: Printz 1929, pl. 75, fig. 3; [Note: collection consists of fragments of two plants, one of which is figured in Printz]; **TRH A1-31**.

Müller [= Mueller]; [Australia]; [Victoria], Portland Bay; [no habitat data]; [no date]; [no slides]; ex herb. Areschoug [**S**]; pfa: Printz 1929, pl. 75, fig. 1; [Note: collection consists of fragments of two plants, one of which is figured in Printz]; **TRH A1-30**.

Tignet; [Australia]; [Victoria], Portland Bay; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: fragments only. Box marked '2 sk. fra oven Port Phillip [= two crusts from top of Port Phillip]' and 'afbildn. koncept. fra neden [= picture of conceptacles from below]'. Collection apparently includes specimens from two localities]; **TRH A1-32**.

[Anon.]; Australia; [no other locality data]; [no habitat data]; [no date]; slide 817; ex herb. Reinbold [dispersed amongst several institutions, according to Stafleu & Cowan 1983: 698]; [no pfa]; [Note: collection includes part of a plant in a packet and slide 817. Slide marked '*Mastophora lamourouxii*' and 'Australia' and 'S.E. 817'. Contrary to the designation S.E. (considered erroneous), the collection does not involve Siboga Expedition material as that expedition never visited Australia. A letter from Reinbold accompanies the collection. Adey & Lebednik 1967: 14 mistakenly list 'Mueller' as the collector]; **TRH A1-33**.

[Anon.]; Australia; Victoria; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes two complete plants, branches of two further plants, some small fragments and a slip marked '*Mastophora lamourouxii* Victoria'. Three pages of notes from Foslie and three photographs of branch tips with conceptacles also were found with this collection but pertain to a comparison of several collections, including A1-29, A1-30, A1-33, A1-47 and A1-3813. Collection not included in Adey & Lebednik 1967: 14]; **TRH A1-3813**.

lapidea, Mastophora [originally described as *Mastophora lapidea* Foslie (1906b: 27) within the subgenus *Lithostrata* (Foslie 1906b: 27). Species subsequently (Foslie 1909b: 59)

transferred without change in rank into *Lithoporella* but name not updated on collection in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, A1-34 (see below).

Henckel; Kaspiske hav [= Caspian Sea], [country uncertain]; 40°20'N 52° 3'E; [no habitat data]; 19.iv.1904; slides 1144-1145; Kaspiske Expedition i 1904, collection number 208; pfa: Printz 1929, pl. 73, figs 5-7; [Note: **Holotype** of *Mastophora lapidea* Foslie. Additional data — Woelkerling 1993: 136]; **TRH A1-34.**

macrocarpa, Mastophora [originally described as *Mastophora macrocarpa* (Montagne 1845: 149), where Foslie retained it in publication]. **Lectotype:** PC, Montagne Herbarium (MA 4594) (Woelkerling 1998c: 369).

Kuroiwa; Japan; Okinawashima, Loochoo; [no habitat data]; [no date]; [no slides]; [ex] Mus. Bot. Berol. **[B]**, collection number 50; [no pfa]; [no notes]; **TRH A1-35.**

[Weber-van Bosse]; [Indonesia]; Fan Island, Lagune, West coast of Gebé Island reef; [no habitat data]; [no date]; [no slides]; Siboga Expedition, station 149, [no collection number]; [no pfa]; [Note: collection includes note marked 'coll. Warburg' [presumably Otto Warburg]. It is unclear whether Foslie obtained this material from Warburg. Warburg did not participate in the Siboga Expedition]; **TRH A1-36.**

[Weber-van Bosse]; [Indonesia]; Savu, [off Seba]; [no habitat data]; 25.vi.1899; one unnumbered slide; Siboga Expedition, station 58, collection 1328; [no pfa]; [Note: collection consists of dried material with an annotation slip marked 'Siboga Exp. Stat. 58' (both found during the present study in Drawer A1 but not included in Adey & Lebednik 1967) and one slide labelled '*Mastoph. macrocarpa* S.E. 1328. Stat. 58 Savu 25.IV.1899' (found during the present study in Drawer A17 and listed under *Melobesia (Dermatolithon) macrocarpum* in Adey & Lebednik 1967: 38)]; **TRH A1-1060.**

macrocarpa, *Mastophora* (f. *affinis*) See listing above for *affinis*, *Mastophora*.

macrocarpa, Mastophora (f. condensata) [originally described as *Mastophora macrocarpa* f. *condensata* (Foslie 1907b: 30) where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 15 under species without mention of forma]. **Holotype:** L, 931.10-60 (Verheij & Woelkerling 1992: 277).

[Weber-van Bosse]; [Indonesia]; Sula Besi; [no habitat data]; 13.-14.ix.1899; [no slides]; Siboga Expedition, station 193, collection 1334; pfa: Foslie 1904b, text fig. 27; [Note: **Holotype fragment** of *Mastophora macrocarpa* f. *condensata* Foslie. Additional data — Verheij & Woelkerling 1992: 277, Woelkerling 1993: 57, Woelkerling & Verheij 1995: 41]; **TRH A1-37.**

melobesioides, Mastophora [originally described as *Mastophora melobesioides* Foslie (1903b: 24), and then (Foslie 1904b: 73) placed in the subgenus *Lithoporella*. Subgenus *Lithoporella* (Foslie 1903b: 25) subsequently (Foslie 1909b: 58) raised to the rank of genus, and *Mastophora melobesioides* (Foslie 1909b: 59) transferred without change in rank into *Lithoporella* (Foslie 1909b: 58). Names not updated on collections in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** TRH, A1-38 (see below).

Gardiner; Maldiveverne [= Maldive Islands]; South Nilandu; collection depth: 36 fathoms; ca 20.iv.1900; one slide numbered 700, two slides numbered 770 and one unnumbered slide; [no other collection data]; pfa: Foslie 1904b, text fig. 30A, and Printz 1929, pl. 73, fig. 1; [Note: **Lectotype** of *Mastophora melobesioides* Foslie. Additional data — Woelker-

ling 1993: 148. Adey & Lebednik 1967: 15 omit mention of the two slides numbered 770 and the unnumbered slide]; **TRH A1-38.**

Rechinger; Samoa; Upolú Island, near Apia; [on] coral reefs; 1905; [no slides]; [Rechinger collection number 5115 delvis (in part)]; pfa: Printz 1929, pl. 73, fig. 2; [Note: collector's name incorrectly spelled 'Reichinger' on box but correctly spelled 'Rechinger' in publication (Foslie 1907h)]; **TRH A1-39.**

Svedelius; Ceylon [now Sri Lanka]; Galle; 'paa *Lith. madagascariense* i litoral regionen [= on *Lith. madagascariense* in the littoral region]'; 5.ii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A1-40.**

[Weber-van Bosse]; [Indonesia]; [Borneo Bank, Pulu Sebangkatan]; [no habitat data]; [14.vi.1899]; one slide labelled S.E. 973 (Siboga Expedition collection number); Siboga Expedition, [station 81], collection 973; [no pfa]; [Note: collection represented only by one slide. Most collection data not on slide but taken from unpublished notes of Foslie and from Weber 1902. Collection not included in Adey & Lebednik 1967]; **TRH A1-3810.**

[Weber-van Bosse]; [Indonesia]; Haingsisi; [no habitat data]; 2.-5.ii.1900; [no slides]; Siboga Expedition, station 303, collection 276; pfa: Foslie 1904b, text fig. 30B; [no notes]; **TRH A1-43.**

[Weber-van Bosse]; [Indonesia]; Salibabu Island, Lirung; [no habitat data]; 25.-27.vii.1899; [no slides]; Siboga Expedition, station 133, collection 989; pfa: Foslie 1904b, text fig. 30C, and Printz 1929, pl. 73, fig. 3; [Note: box marked 'Tetrasp.! [= tetrasporangia!']; **TRH A1-41.**

[Weber-van Bosse]; [Indonesia]; Salibabu Island, Lirung; [no habitat data]; 25.-27.vii.1899; one unnumbered slide; Siboga Expedition, station 133, collection 990; [no pfa]; [Note: Adey & Lebednik 1967: 15 omit mention of slide]; **TRH A1-42.**

***melobesioides*, *Mastophora* (f. *varians*)** [originally described as *Mastophora melobesioides* f. *varians* (Foslie 1908d: 19) within the subgenus *Lithoporella* but f. *varians* not transferred subsequently by Foslie (1909b: 59) with the species *melobesioides* into *Lithoporella*. Transfer of f. *varians* into *Mastophora* effected by De Toni (1924: 694). Collection listed in Adey & Lebednik 1967: 15 under species without mention of forma]. **Lectotype:** **TRH**, A1-44 (see below).

Møller, H.A.; [Indonesia]; Sydkysten av Java [= south coast of Java], Palaboehan Ratoe; 'Koralrev [= coral reef]'; viii.1897; slide 1638; [no other collection data]; [no pfa]; [Note: **Holotype** of *Mastophora melobesioides* f. *varians* Foslie. Additional data — Woelkerling 1993: 235. Adey & Lebednik 1967: 15 mistakenly list 'Kalmar' as the collector. Kalmar, Sweden, is where Hj. Möller, the correct collector, was based prior to 1917]; **TRH A1-44.**

pacifica*, *Mastophora [originally described as *Melobesia pacifica* (Heydrich 1901a: 529) but subsequently (Foslie 1903b: 25) transferred without change in rank into *Mastophora*, where Foslie retained it in publication]. **Holotype:** **PC**, General Herbarium (Woelkerling 1998c: 378).

[Anon.]; Sandwich Inseln [= Sandwich Islands, now the State of Hawaii of the United States]; [no other locality data]; [no habitat data]; [no date]; slides 653-654 and one unnumbered slide; [ex] Herb. Mus. Paris (no. 49a) [**PC**]; [no pfa]; [Note: **Holotype fragments** of *Melobesia pacifica* Heydrich. Additional data — Woelkerling 1993: 167, Verheij 1994: 110, and Woelkerling 1998c: 378]; **TRH A1-45.**

pygmaea*, *Mastophora [originally described as *Mastophora pygmaea* (Heydrich 1894: 300), and retained under that name by Foslie in his herbarium but without mention in publication]. **Type:** not designated (Woelkerling 1993: 186). **TRH** has one syntype (A1-46).

Warburg [probably Otto Warburg]; Formosa [now Taiwan]; Kelong; [no habitat data]; [no date on box, but given as January 1888 in protologue]; unnumbered slide only; [no other collection data]; [no pfa]; [Note: **Syntype** of *Mastophora pygmaea* Heydrich. Additional data — Woelkerling 1993: 186. Collection consists only of one slide]; **TRH A1-46.**

vulgaris, Mastophora [a nomen nudum used by Foslie for one collection in his herbarium. See Woelkerling 1993: 236 for additional data]

[Anon.]; [Australia]; [Victoria], Port Phillip [Bay]; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 75, fig. 2; [Note: identified as *M. lamourouxii* in Printz 1929. Annotation slip marked ‘fotogr. Fig. 2. [= photograph figure 2]’]; **TRH A1-47.**

yendoi, Lithophyllum [originally described as *Goniolithon yendoi* (Foslie 1900a: 25), but subsequently (Foslie 1900i: 20) transferred without change in rank into *Lithophyllum* where Foslie retained it in publication]. **Lectotype: TRH, A1-53** (see below).

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.1899; one unnumbered slide; Siboga Expedition, station 240, collection 157; [no pfa]; [Note: box marked ‘*Lithoph. yendoi* forma?’]; **TRH A1-50.**

[Weber-van Bosse]; [Indonesia]; Celebes, Dongala; ‘paa mangrove [= on mangrove]’; 18.-19.vi.1899; one unnumbered slide [missing]; Siboga Expedition, station 86, collection 758; pfa: Foslie 1904b, pl. 11, fig. 4; [Note: slide not mentioned in Adey & Lebednik 1967: 15]; **TRH A1-49.**

[Weber-van Bosse]; [Indonesia]; Soler Island, Lamakwera; [no habitat data]; 1.-2.v.1899; [no slides]; Siboga Expedition, station 61, collection 1129; [no pfa]; [no notes]; **TRH A1-48.**

[Weber-van Bosse]; [Indonesia]; Sula Besi (east coast), Sanana Bay; [no habitat data]; 13.-14.ix.1899; one unnumbered slide; Siboga Expedition, station 193, collection 717; [no pfa]; [no notes]; **TRH A1-51.**

[Weber-van Bosse]; [Indonesia]; Waigeu Island, Piapis Bay; ‘paa bark [= on bark]’; 14.viii.1899; [no slides]; Siboga Expedition, station 155, collections 930a, b; [no pfa]; [no notes]; **TRH A1-52.**

Yendo; Japan; Pacific coast of middle Japan, Izu Province, Shimoda Harbor; [no habitat data]; iv.1899; slide 394; Yendo collection number 66; pfa: Foslie 1904b, pl. 11, fig. 1, and Printz 1929, pl. 53, fig. 16; [Note: **Lectotype** of *Goniolithon yendoi* Foslie. Additional data — Chamberlain 1993: 102, and Woelkerling 1993: 238. Box marked ‘Præp. Anders. 394, af øverste og noget glatt [= slide Andersson 394, of upper and somewhat smooth]. ‘Anderss.’ denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH A1-53.**

Yendo; Japan; Pacific coast of middle Japan, Izu Province, Shimoda Harbor; [no habitat data]; iv.1899; [no slides]; Yendo collection number 63; [no pfa]; [no notes]; **TRH A1-54.**

Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 17; [Note: material with same collecting information represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A1-55.**

Yendo; Japan; Misaki; [no habitat data]; iv.1903; slides 827 ‘(af mindste [= of smallest])’, 828 ‘(af største [= of largest])’; [no other collection data]; [no pfa]; [Note: material with same collecting information represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A1-56.**

Yendo; Japan; Misaki; [no habitat data]; iv.1903; slide 829; [no other collection data]; [no pfa]; [Note: material with same collecting information represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A1-57.**

Yendo; Japan; Misaki; [no habitat data]; iv.1903; slide 830; [no other collection data]; [no pfa]; [Note: material with same collecting information represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A1-58.**

- Yendo; Japan; Misaki; [no habitat data]; iv.1903; slide 831; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Material with same collecting information represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A1-59**.
- Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: material with same collecting information represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A1-60**.
- Yendo; Japan; Pacific coast of middle Japan, Otaru; [no habitat data]; viii.1899; slide 395; [Yendo collection numbers] 194 & 196; [no pfa]; [Note: box marked '*Lepidom. yendoi* forma'. *Lepidomorphum* is an infrageneric name associated with *Lithophyllum*. In protologue, Foslie lists 194 & 196 as separate collections, but placed both in one box in his herbarium together with an unidentified specimen]; **TRH A1-61**.
- Yendo; Japan; Pacific coast of middle Japan, Sagami Province, at the Marine Laboratory; [no habitat data]; viii.1899; slide 397; Yendo collection number 207; [no pfa]; [Note: box marked 'Sands. *L. yendoi*? [= probably *L. yendoi*?]']; **TRH A1-62**.
- Yendo; Japan; Pacific coast of middle Japan, Sagami Province, at the Marine Laboratory; [no habitat data]; 1899; [no slides]; Yendo collection number 275; [no pfa]; [Note: box marked 'fleste skorper ung [= most crusts young]']; **TRH A1-63**.
- [Anon.]; Karolinerne [= Caroline Islands]; [no other locality data]; [no habitat data]; [no date]; slide 860; [ex] Bot. Mus. Hamburg [**HBG**]; [no pfa]; [no notes]; **TRH A1-64**.

yendoi, Lithophyllum (f. maheica) [originally described as *Lithophyllum yendoi* f. *maheica* (Foslie 1906b: 19), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 15 under species without mention of forma]. **Holotype:** TRH, A1-67 (see below).

- Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slide 517; n. 540 [Jadin collection number]; [no pfa]; [Note: box marked '*Lithoph. yendoi* f. *maheica* ell. n. sp.? [= or new species?]' and 'Præp. 517 af røde skorpe [= slide 517 of red crust]']; **TRH A1-65**.
- Møller H.A.; [Indonesia]; south coast of Java, Palaboehan Ratoe; 'Koralrev [= coral reef]'; viii.1897; slide 1636; [no other collection data]; [no pfa]; [Note: box marked 'Kalmar', the city in Sweden where the collector was based until 1917]; **TRH A1-66**.
- [Schimper]; Seychellerne [= Seychelles Islands]; Mahé; 'paa konkyllie [= on conch (shell)]'; 1898-1899; slide 901; Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: **Holotype** of *Lithophyllum yendoi* f. *maheica* Foslie. Additional data — Woelkerling 1993: 143]; **TRH A1-67**.

yendoi, Lithophyllum (f. malaysica) [originally described as *Lithophyllum yendoi* f. *malaysica* (Foslie 1906b: 19) and retained by Foslie in that genus and species without further mention in publication. Collection listed in Adey & Lebednik 1967: 15 under species without mention of forma]. **Lectotype:** L, 943.7-7 (Verheij & Woelkerling 1992: 280).

- [Weber-van Bosse]; [Indonesia]; Waigeu Island, Piapis Bay; [no habitat data]; 14.viii.1899; one unnumbered slide; Siboga Expedition, station 155, collection 930c; pfa: Foslie 1904b, pl. 11, fig. 2; [Note: **Lectotype fragment** of *Lithophyllum yendoi* f. *malaysica* Foslie. Additional data — Verheij & Woelkerling 1992: 280, and Woelkerling 1993: 143. Slide not mentioned in Adey & Lebednik 1967: 15]; **TRH A1-68**.

yendoi, Lithophyllum (f. siamensis) [originally described as *Lithophyllum yendoi* f. *siamensis* (Foslie 1906b: 19), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 15 under species without mention of forma]. **Holotype:** TRH, A1-69 (see below).

- Schmidt; [Thailand]; Siam-Gulfen [= Gulf of Siam, now the Gulf of Thailand], Koh Sarlak; [no habitat data]; 16.iii.1900; slide 464; [no other collection data]; [no pfa]; [Note: **Holotype** of

Lithophyllum yendoi f. *siamensis* Foslie. Additional data — Woelkerling 1993: 200. Collected during Danish Expedition to Siam (1899-1900) but not so marked on box]; **TRH A1-69**.

Case A, Drawer 2

During the present study, some loose notes were found that could not be linked to any particular collection. These now have been placed in an envelope labelled 'Loose notes found in Drawer A2'. Photos pertaining to type material of *Lithophyllum pseudolichenoides* (see A2-110) and *Lithophyllum pinguiense* (see A2-109) have been placed in separate envelopes. In addition, Foslie's label for the original Drawer A2 was found amongst the collections. It has been placed in an envelope marked 'Label for the original wooden Drawer A2 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

acanthinum, *Lithophyllum* [originally described as *Lithophyllum acanthinum* (Foslie 1907a: 26), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A2-70 (see below).

Yendo; Japan; Misaki; [no habitat data]; iv.1900; slides 694, 1352; Yendo collection number 614; pfa: Printz 1929, pl. 53, fig. 13; [Note: **Holotype** of *Lithophyllum acanthinum* Foslie. Additional data — Woelkerling 1993: 14]; **TRH A2-70**.

aequum, *Lithophyllum* [originally described as *Lithophyllum aequum* (Foslie 1907a: 23), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A2-71 (see below).

Thaxter; Chile; Pto de Corral, ca 40°S; [no habitat data]; 1905-1906; slide 1484; comm. Farlow 1907, number 8; pfa: Printz 1929, pl. 53, fig. 12; [Note: **Holotype** of *Lithophyllum aequum* Foslie. Additional data — Woelkerling 1993: 20 and Woelkerling 1998c: 300]; **TRH A2-71**.

amplexifrons, *Lithophyllum* [originally described as *Melobesia amplexifrons* (Harvey 1849a: 110) but subsequently (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum*, where Foslie retained it in publication. Note: the Ferlus collection from Madagascar included under *Lithophyllum amplexifrons* in Adey & Lebednik (1967: 15) forms part of the type of *L. pseudolichenoides* (A2-110). Additional data — Woelkerling 1993: 180-181]. **Lectotype:** TCD, unnumbered (Woelkerling & Campbell 1992: 98).

Gueinzus; [South Africa]; Port Natal; [no habitat data]; [no date]; slides 695, 1336; ex herb. T.C. Dublin [**TCD**]; [no pfa]; [Note: **Probable type material** of *Melobesia amplexifrons* Harvey. Additional data — Woelkerling 1993: 25. Chamberlain & Norris 1994 provide an account of the lectotype and of the species. Original **TRH** box marked 'origin. Harvey' and '*Lithophyllum amplexifrons* (Harvey) Foslie'. Slide 695 marked 'det. Harvey (type)'. Collection includes some fragments in a packet. Front side of annotation slip in packet marked 'Konct. overfl. 200-250µ diam. ej skarp begr. Konzept. midtre sv. neds., med tem. stor pore [= the surface of conceptacle 200-250µ in diameter, not clearly defined. The middle part of the conceptacle is weakly submerged, with a rather large pore]' and 'cf. Rosan. pl. 7 fig. 2-3 [= Rosanoff 1866, pl. 7, figs 2-3]'. Back of annotation slip has information relevant to a Nordgaard collection of the non-coralline alga *Achinococcus*]; **TRH A2-73**.

crouanii, *Lithophyllum* [originally described as *Lithophyllum crouanii* (Foslie 1899c: 17), where Foslie retained it in publication]. **Lectotype:** TRH, A2-74 (see below).

- Batters; [United Kingdom]; [England], Berwick [= Berwick-upon-Tweed]; on *Laminaria*; iii.1896; slide 67; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithophyllum crouanii* Foslie. Additional data — Chamberlain, Irvine & Walker 1988: 179, 188 and Woelkerling 1993: 68. Box also marked '*L. laminariae* Batt.'. Type locality and habitat details taken from Chamberlain et al. 1988: 179]; **TRH A2-74.**
- Boye; [Norway]; Sulen [now Sula], Sognefjorden, Husø [now Husøy]; 'paa *Laminaria* st. [= on *Laminaria* stipe]', collection depth: ca 8 metres, 'udenskjærs [= in the open sea]'; vii.1894; [no slides]; Boye collection number 27; [no pfa]; [no notes]; **TRH A2-75.**
- Boye; [Norway]; Sulen [now Sula], Sognefj. munding [= mouth of Sognefjorden]; 'paa *Lamin.* rod [= on *Laminaria* holdfast]'; vii.1894; [no slides]; Boye collection number 84 'delvis [= in part]'; [no pfa]; [Note: box marked 's. med [= mixed with] *L. laeve*'. The other part of Boye collection 84 is filed in Drawer B4 under *Lithothamnion laeve* (B4-1778)]; **TRH A2-76.**
- Børgesen; Færøerne [= Faeroe Islands]; Gjøv Øskrø; [no habitat data]; 19.v.1896; [no slides]; Børgesen collection number 662; [no pfa]; [no notes]; **TRH A2-77.**
- Børgesen; Færøerne [= Faeroe Islands]; Suderø Lobra; collection depth: 8 fathoms, 'paa roden af *Laminaria* [= on the holdfast of *Laminaria*]'; 14.vi.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst.? konc.? [= cystocarpic? conceptacles?']'. 'Børgesen' listed as collector on annotation slip in box]; **TRH A2-90.**
- Davidsson; [Iceland]; N. Island [= north Iceland], Hraunakrøkur; 'paa [= on] *Laminaria*'; 14.viii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A2-78.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Lamin. hyperborea*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A2-79.**
- Foslie; [Norway]; Frøjen [now Frøya]; 'paa [= on] *Laminaria hyperborea*'; 11.vii.1894; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 53, figs 21-22; [no notes]; **TRH A2-82.**
- Foslie; [Norway]; Frøjen [now Frøya]; 'paa [= on] *Lam. hyperb.*'; 11.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. med. *L. pustul.* f. *lamin.* som udtaget [= mixed with *Lithophyllum pustulatum* f. *laminariae*, that (was) taken out)'] and '4 delte sp. [= 4-parted sporangia]'. Collection containing *Lithophyllum pustulatum* f. *laminariae* is filed in Drawer A17 (A17-1108)]; **TRH A2-83.**
- Foslie; [Norway]; Kristiansund; 'paa *Lamin.* st. [= on *Laminaria* stipe]'; 9.viii.1898; slide 68; [no other collection data]; [no pfa]; [Note: box marked 's. med *L. lamin.* [= mixed with *Lithophyllum laminariae*]']; **TRH A2-84.**
- Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; [no habitat data]; 1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 20; [Note: grouped with A2-86 under one entry in Adey & Lebednik 1967: 16]; **TRH A2-85.**
- Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A2-85 under one entry in Adey & Lebednik 1967: 16]; **TRH A2-86.**
- Foslie; [Norway]; Tusteren [now Tustna]; 'paa [= on] *Lamin. hyperborea*'; 19.vii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. m. [= mixed with] *Derm. lamin.* [= *Dermatolithon laminariae*] udt. [= taken out]']; **TRH A2-87.**
- Jónsson; [Iceland]; N. Island [= north Iceland], Herisey; 'in *Laminaria hyperb.* [= on *Laminaria hyperborea*]'; 1898; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A2-88.**
- Jónsson; [Iceland]; Syd-Island [= South Iceland], Eyrarbakki; 'paa *Laminaria* st. [= on *Laminaria* stipe]'; 7.vii.1901; [no slides]; ex herb. Bot Mus Kbh. [C], 21.v.1902; [no pfa]; [no notes]; **TRH A2-89.**
- [Anon.]; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund, Gitterøundet; collection depth: 5 fathoms, 'paa [= on] *Lithoth.* ... [word is difficult to read]?'; 20.vii.1902; slide 1048; [no other collection data]; [no pfa]; [no notes]; **TRH A2-91.**
- [Anon.]; [Norway]; Finmarken [now Finnmark], Kiberg; 'paa [= on] *Laminaria hyperborea*'; 14.vii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. crouanii*']

(?) (*circumscr.*?). Grouped with A2-80 under one entry in Adey & Lebednik 1967: 16]; **TRH A2-92.**

[Anon.]; [Norway]; Finmarken [now Finnmark], Kiberg; 'paa [= on] *Lamin. hyperb.*'; 25.vii.1889; slide 1047; [no other collection data]; [no pfa]; [Note: grouped with A2-92 under one entry in Adey & Lebednik 1967: 16]; **TRH A2-80.**

[Anon.]; [Norway]; Finmarken [now Finnmark], Syltefjord; 'paa [= on] *Lamin. hyperborea*'; 22.vii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. med [= mixed with] *L. lamin*, udtaget [= taken out]'. The collection of *L. laminariae* is in Drawer A17 (A17-1123)]; **TRH A2-81.**

[Anon.]; [Norway]; Florø; 'paa gl. *Lam. hyperb.* [= on old *Laminaria hyperborea*']; 10.viii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Øverv. konc. [= overgrown conceptacles]']; **TRH A2-93.**

[Anon.]; [Norway]; Kvithyllen i Rissen [now Kvithyll in Rissa]; 'paa st. af *L. dig.* [= on stipe of *Laminaria digitata*']; 15.viii.1892; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A2-94.**

decipiens, Lithophyllum [originally described as *Lithothamnion decipiens* (Foslie 1897b: 20) but subsequently (Foslie 1900a: 19) transferred without change in rank into *Lithophyllum*, where Foslie retained it in publication]. **Holotype:** TRH, A2-97 (see below).

Cleveland; [United States]; California, San Diego; [no habitat data]; 1876; slide 488; comm. Farlow, number XIV; pfa: Printz 1929, pl. 53, fig. 14; [no notes]; **TRH A2-95.**

Farlow; [United States]; California, San Diego; [no habitat data]; 1875; [no slides]; ex herb. Bornet - Thur. [PC]; [no pfa]; [Note: box marked '*Melob. lenormandii* conceptaculis monoribus scr. Bornet']; **TRH A2-96.**

Setchell; United States; California, Los Angeles County, San Pedro; on pebbles just below low water mark; 5.xii.1896; slide 61; Setchell collection number 1482; [no pfa]; [Note: **Holotype** of *Lithophyllum decipiens* Foslie. Additional data — Mendoza & Cabioch 1986: 183, Chamberlain 1993: 107, and Woelkerling 1993: 70. A presumed isotype in UC (UC, 736372) was mistakenly termed the holotype by Steneck & Paine (1986: 237). Box marked '(konc. lidt større end hos typen [= conceptacles somewhat larger than the type])'. Slide marked '*L. decipiens* Fosl., Kalifornia [= California], leg. Setchell'. Annotation slip in box includes habitat data and also is marked 'Herbarium of the University of California, Plants of California']; **TRH A2-97.**

Snyder; [United States]; California, Pacific Beach near San Diego; 'litoralreg. [= littoral region]'; [no date]; slide 584; comm. F.S. Collins, 1901; [no pfa]; [Note: box marked '(*L. farlowii*?) = *L. decipiens*?' and '(steril [= sterile])'. Grouped with A2-99 under one entry in Adey & Lebednik 1967: 16]; **TRH A2-98.**

Snyder; [United States]; California, Pacific Beach, near San Diego; 'litoralreg. [= littoral region]'; [no date]; [no slides]; comm. F.S. Collins, 1901; [no pfa]; [Note: box marked '*Lithoph. decipiens* (?) og [= and] *Lithoth. californ* (?)'. Grouped with A2-98 under one entry in Adey & Lebednik 1967: 16]; **TRH A2-99.**

decipiens, Lithophyllum (f. subantarcticum). See listing below for **subantarcticum, Lithophyllum.**

detrusum, Lithophyllum [originally described as *Lithophyllum detrusum* (Foslie 1906b: 21), but not mentioned in Foslie's subsequent publications]. **Lectotype:** TRH, A2-100 (see below).

Setchell; New Zealand; North Island, Island Bay near Wellington; uppermost sublittoral zone; vi.1904; slides 1169-1170; Setchell collection number 6350; pfa: Printz 1929, pl. 53, fig. 18; [Note: **Lectotype** of *Lithophyllum detrusum* Foslie. Additional data — Woelkerling 1993: 73. Box marked 'og [= and] *Lith. repandum* f. *crispata*']; **TRH A2-100.**

erosum, *Lithophyllum* [originally described as *Lithophyllum erosum* (Foslie 1906b: 20), where Foslie retained it in publication]. **Holotype:** TRH, A2-101 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas, Magenbay; 'fjæren [= the tidal zone]'; 1905-1906; slides 1205-1206; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 9; [Note: **Holotype** of *Lithophyllum erosum* Foslie. Additional data — Woelkerling 1993: 85. Adey & Lebednik (1967: 16) state that two boxes occur but only one has been found]; **TRH A2-101.**

Howe; Jamaica; Bouge Islands, near Montego Bay; on roots at low water mark; 9.i.1907; slide 1459; [Howe collection number] 4964; [no pfa]; [Note: box marked '*Lithoph. erosum?* (jeævne skorpe m/tømte koncept.) og 1-2 andre arter [= *Lithoph. erosum?* (smooth crust with empty conceptacles) and 1-2 other species]'. 'New York Botanical Garden' [NY] printed on slip affixed to box lid]; **TRH A2-102.**

inops, *Lithophyllum* [originally described as *Lithophyllum inops* (Foslie 1907b: 27), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A2-103 (see below).

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: 1-1.5 metres; 1897; slides 1161, 1520; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 4; [Note: **Holotype** of *Lithophyllum inops* Foslie. Additional data — Woelkerling 1993: 126. Box marked 's. med [= mixed with] *Lithoph. propontidis* og [= and] *L. lenor-mandi*, tidels især sammenv. med den sidste [= in part especially coalesced with the latter]']; **TRH A2-103.**

jugatum, *Lithophyllum* [originally described as *Lithophyllum jugatum* (Foslie 1906b: 26), where Foslie retained it in publication]. **Holotype:** TRH, A2-104 (see below).

Setchell; Ny Seland [= New Zealand]; Island Bay near Wellington; uppermost sublittoral zone, on stipes of *Lessonia variegata*; vi.1904; slide 1143 and one unnumbered slide; Setchell collection number 6039; [no pfa]; [Note: **Holotype** of *Lithophyllum jugatum* Foslie. Additional data — Woelkerling 1993: 132. Collection includes a packet and one small box]; **TRH A2-104.**

natalense, *Lithophyllum* [originally described as *Lithophyllum natalense* (Foslie 1907a: 24), but not mentioned in Foslie's subsequent publications]. **Lectotype:** TRH, A2-107 (see below).

Weber-van Bosse; Sydafrika [= South Africa]; Natal; [no habitat data]; 1893; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 5; [no notes]; **TRH A2-105.**

Weber-van Bosse; Sydafrika [= South Africa]; Natal, Durban; [no habitat data]; 1893; slide 705; [no other collection data]; [no pfa]; [Note: box marked 'obs. ngt. forl. cell [= some elongate cells observed]'. Originally identified as *Lithophyllum subtenellum*; **TRH A2-106.**

Weber-van Bosse; Sydafrika [= South Africa]; Natal (or Port Nolloth); [no habitat data]; 1894; slide 703; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 6; [Note: **Lectotype** of *Lithophyllum natalense* Foslie. Additional data — Chamberlain 1993: 111, and Woelkerling 1993: 156. Box marked '*Lithoph. subtenellum natalense*'. Collection includes small box with fragment used to prepare the slide]; **TRH A2-107.**

paradoxum, *Lithophyllum* [originally described as *Lithophyllum paradoxum* (Foslie 1908d: 17), where Foslie retained it in publication]. **Holotype:** PC, General Herbarium (Woelkerling 1998c: 320).

Bory [Bory de Saint Vincent]; [Papua New Guinea]; [Bismarck Archipelago], New Mecklenberg [now New Ireland Island], Port Prasein [error for Port Praslin, now New Breton]; 'paa *Liagora* [= on *Liagora*']; [no date]; slide 1337 and one unnumbered slide; ex Mus. d'hist. nat. Paris [PC], 1901; [no pfa]; [Note: **Holotype fragments** of *Lithophyllum paradoxum* Foslie. Additional data — Woelkerling 1993: 169, and Woelkerling 1998c: 320, fig. 196. Box originally marked '*Lithoph. Amplexifrons*']; **TRH A2-108.**

pinguiense, Lithophyllum [originally described as *Lithophyllum pinguiense* (Heydrich 1901a: 535), where Foslie retained it in publication]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 321).

De l'Isle; Ile St. Paul [= St. Paul Island]; [in South Indian Ocean], Grotto des Pingouines, south side of Island; [no habitat data]; xi.1874; slide 666; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 15; [Note: **Lectotype fragments** of *Lithophyllum pinguiense* Heydrich. Additional data — Woelkerling 1993: 173, and Woelkerling 1998c: 321. Collection includes one photo in a separate envelope showing the **TRH** part of the lectotype]; **TRH A2-109.**

pseudolichenoides, Lithophyllum [originally described as *Lithophyllum pseudolichenoides* (Heydrich 1902: 475) and retained under that name by Foslie]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 322)

Ferlus; Madagascar; Fort Dauphin; [no habitat data]; [no date]; slides 852, 1335, 1719; [ex] Herb. Mus. Paris [PC]; [no pfa]; [Note: **Holotype fragments** of *Lithophyllum pseudolichenoides* Heydrich. Additional data — Woelkerling 1993: 180 (who mistakenly referred to **TRH** material as lectotype fragments rather than holotype fragments), Chamberlain & Norris 1994: 15, and Woelkerling 1998c: 322. Adey & Lebednik 1967: 15, 16 listed part of this collection under *Lithophyllum amplexifrons*. See comments of Woelkerling 1993: 180 concerning this. A photograph apparently showing fragments of the holotype is housed in a separate envelope]; **TRH A2-110.**

samoense, Lithophyllum [originally described as *Lithophyllum samoense* (Foslie 1906b: 20), where Foslie retained it in publication]. **Lectotype: TRH**, A2-111 (see below).

Rechinger; Samoa; Savaii, an Strande bei [= on the shore at] Satana; 'auf abgerollten lavastücken an einer Süßwasserquelle ganz nahe am Strand [= on rounded pieces of lava at a freshwater spring very close to the shore]'; vii.1905; slides 1099 [missing], 1100 [missing], 1101; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 19; [Note: **Lectotype** of *Lithophyllum samoense* Foslie. Additional data — Woelkerling 1993: 193, and Keats & Chamberlain 1994a: 16, and Woelkerling 1998c: 324. Collection now housed directly in a new brown box. Original box lid present but remainder of box broken apart and now discarded. Collector's name misspelled 'Reichinger' on original box lid. Collection includes several fragments in a small open box inside the brown box. 'Ex Herbario Musei Nidarosiensis' [an old Latin name for **TRH**] printed on one annotation slip which also has hand-written locality, habitat and date data. Second annotation slip marked '*Lithophyllum samoense*' and 'Type'. Third slip has cell measurements for slide 1101 and also is marked 'Ingen sporer [= without spores]'. Fourth slip marked 'hyp. cell. kortere [= hypothalial cells shorter]' and 'konc. mindre end [= conceptacles smaller than] *yendoï* and 'konc. [= conceptacles] 130-200'. Fifth slip is marked '2 stk. sendt [word is difficult to read] Setchell 16/4 29 [= two pieces sent [word is difficult to read] Setchell 16/4 29]'. Slide 1101 marked '*Lithoph. yendoï* f. *samoenses samoense*'; **TRH A2-111.**

[Anon.]; [Society Islands]; Tahiti, [no other locality data]; [no habitat data]; [no date]; slide 26; ex Herb. Thur. - Born. [PC]; [no pfa]; [no notes]; **TRH A2-112.**

subantarcticum, *Lithophyllum* [originally described as *Lithophyllum decipiens* f. *subantarcticum* (Foslie 1906b: 18) but subsequently (Foslie 1907a: 23) raised to the rank of species, namely *Lithophyllum subantarcticum*, where Foslie retained it in publication]. **Lectotype:** TRH, A2-113 (see below).

Dusén; [Argentina]; [Tierra del Fuego Archipelago], Ildlandet [= Tierra del Fuego Island], mundingen af [= the mouth of] Rio Grande; [no habitat data]; ii.1876 [but see Note]; slides 376-378, 1468, 1717; [no other collection data]; pfa: Printz 1929, pl. 53, figs 10-11; [Note: **Lectotype** of *Lithophyllum decipiens* f. *subantarcticum* Foslie. Additional data — Mendoza & Cabioch 1985b: 258, Mendoza & Cabioch 1986: 180, and Woelkerling 1993: 208. Date recorded as 1876 on collection box but likely to be 1896 as all other Dusén collections from region are dated 1896. Box also marked '(tidl. *L. decipiens* [= partly *L. decipiens*)]']; **TRH A2-113.**

Skottsberg; [Argentina]; Observatoire Øen [= Observatory Island], station 1, nær Staaten Øen [= near Staaten Island]; collection depth: 25 metres; 6.i.1902; [no slides]; Swedish South Polar Expedition 1901-1903; [no pfa]; [Note: box marked '*L. (decipiens f.) subantarcticum* (cfr. præp. *discoideum* andet ekspl. [= cf. slide of *discoideum* of another specimen)'] probably A9-454]. Collection also said to include *L. magellanicum* with a question mark and *L. rugosum*; **TRH A2-114.**

[Anon.]; South Orkney Islands; Scotia Bay; collection depth: 9-10 fathoms; vii.1903; slide 952; Skotske antarkt. Ekp. "Scotia" [= Scottish National Antarctic Expedition 1902-1904]; [no pfa]; [Note: box marked '*Lithophyllum decipiens* f. *subantarcticum*'. Box also said to contain *Lithophyllum aequabile* and *Lithophyllum magellanicum* f. *crenulata*]; **TRH A2-115.**

subtenellum, *Lithophyllum* [originally described as *Goniolithon subtenellum* (Foslie 1899c: 11) but subsequently (Foslie 1900i: 20) transferred without change in rank into *Lithophyllum*, where Foslie subsequently retained it in publication]. **Lectotype:** TRH, A2-124 (see below).

Debray; [Algeria]; Algier; [no habitat data]; [no date]; slide 69; Debray collection number 22; [no pfa]; [Note: box marked 'sp. 4 del. [= sporangia 4-parted]'. Grouped with A2-117 and A2-118 under one entry in Adey & Lebednik 1967: 17]; **TRH A2-116.**

Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; Debray collection number 27; [no pfa]; [Note: box marked '*Lithoph. subtenellum* (?)'. Grouped with A2-116 and A2-118 under one entry in Adey & Lebednik 1967: 17]; **TRH A2-117.**

Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; Debray collection number 34; [no pfa]; [Note: grouped with A2-116 and A2-117 under one entry in Adey & Lebednik 1967: 17]; **TRH A2-118.**

Debray; [Algeria]; St. Eugène, près Algier [= near Algiers]; [no habitat data]; ii.1888; slide 49; Debray collection number 94; [no pfa]; [Note: box marked '*L. subtenellum*?' and 'delvis? [= in part?]']; **TRH A2-119.**

Debray; [France]; Seine Inférieure, Fecamp; [no habitat data]; 18.viii.1884; slide 45; Debray collection number 78; [no pfa]; [Note: box marked '*Lithoph. subtenellum*?']; **TRH A2-120.**

Debray; [France]; Seine Inférieure, Fecamp; [no habitat data]; viii.1886; [no slides]; Debray collection number 79; [no pfa]; [Note: box marked 'overv. af. *L. incrust.* [= overgrown by *Lithophyllum incrustans*']]; **TRH A2-121.**

[Gravier]; [São Tomé and Príncipe]; San Thome [= São Tomé Island]; [no habitat data]; [no date]; slide 1411; [ex] Mus. Paris [PC], [comm.] Hariot, iv.1907, number 1; [no pfa]; [Note: box marked 'Afr. Occident. [= West Africa]'. Grouped with A2-123 under one entry in Adey & Lebednik 1967: 17]; **TRH A2-122.**

Gravier; Afrika [= Africa], [São Tomé and Príncipe]; San Tomé [= São Tomé Island]; [no habitat data]; [no date]; slide 1264; [ex] Mus. d'hist. nat. Paris [PC], comm. Hariot, 1907, number 8 [material almost certainly sent from PC]; [no pfa]; [Note: box marked 'tynde

skorpe [= thin crusts]'. Grouped with A2-122 under one entry in Adey & Lebednik 1967: 17]; **TRH A2-123.**

Sauvageau; [France]; Basses Pyrénées, Guéthary; [no habitat data]; iii-v.1898; slide 70; [no other collection data]; pfa: Printz 1929, pl. 53, figs 1-2; [Note: **Lectotype** of *Lithophyllum subtenellum* Foslie. Additional data — Chamberlain 1993: 112, and Woelkerling 1993: 215. Collection consists of three original round boxes housed in a newer brown box. Largest round box contains specimens and is marked with collection data and with '*Lpm. subtenellum* delvis [= in part]'. Smaller two round boxes (both empty) are marked with collection data. One also marked '*Lithoph. subtenellum* (*L. incrustans* og [= and] *Lithoth. sonderi*)' and 'præp. [= slide] 70'. Other also marked with pfa data and with '*Lithoph. subtenellum* delvis [= in part]' and 'anth. konc. [= antheridial conceptacles]'. Grouped with A2-125 under one entry in Adey & Lebednik 1967: 17. Adey & Lebednik indicated that four boxes occurred, but only two were found during the present study]; **TRH A2-124.**

Sauvageau; [France]; Basses Pyrénées, Guéthary; [no habitat data]; iii-v. 1898; [no slides]; Sauvageau collection number 1; [no pfa]; [Note: box marked '*Lithoph. subtenellum* (*L. incrust.*, *L. lenorm.*, *L. sonderi* [= *Lithophyllum incrustans*, *L. lenormandii*, *L. sonderi*)'. Box also marked 'præp. [= slide] 70', but slide 70 belongs to the lectotype (A2-124). Grouped with A2-124 under one entry in Adey & Lebednik 1967: 17. Adey & Lebednik indicated that four boxes occurred, but only two were found during the present study]; **TRH A2-125.**

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'récolte a la main [= gathered by hand]'; 5.i.1907; slide 1331; [no other collection data]; pfa: Printz 1929, pl. 53, fig. 3; [no notes]; **TRH A2-126.**

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'Ngt. udsat sted [= somewhat exposed site]'; vi.1906; slide 1123; [no other collection data]; [no pfa]; [Note: box marked 'Obs. heteroc. lign. cell. [= heterocyst-like (trichocyte-like) cells observed]' and 'sp. firdelte [= sporangia four-parted]']; **TRH A2-127.**

tasmanicum, *Lithophyllum* [originally described as *Lithophyllum zosteriolum* f. *tasmanica* (Foslie 1907a: 33) but subsequently (Foslie 1908d: 16) raised to the rank of species, namely *Lithophyllum tasmanicum*, where Foslie retained it in publication]. **Lectotype:** **TRH, A2-129** (see below).

Engelhart; [Australia]; Sydaustralien [= South Australia], Cape Jaffa; [no habitat data]; 1900; slide 1341; [no other collection data]; [no pfa]; [Note: box marked '*Lithophyllum amplexifrons?*']; **TRH A2-128.**

[Anon.]; [Australia]; Tasmania, George Town Heads; [no habitat data]; [no date]; slides 697, 1339 and one unnumbered slide; ex herb. Bornet [**PC**]; [no pfa]; [Note: **Lectotype** of *Lithophyllum zosteriolum* f. *tasmanica* Foslie. Additional data — Woelkerling & Campbell 1992: 100, Woelkerling 1993: 220, Woelkerling 1997: 249, and Woelkerling 1998c: 329. Most of lectotype is in **PC**. **TRH** box also marked '*M. amplexifrons* = *M. tasmanica*' and 'Phytologic Mus. of Melbourne' (MEL)]; **TRH A2-129.**

[Anon.]; Nelle Hollande [= New Holland, now Australia]; [no other locality data]; [no habitat data]; [no date]; slide 1338; ex herb. Areschoug [**S**] 'scr. Bornet'; [no pfa]; [Note: box marked '*Melobesia amplexifrons* = *L. tasmanica*']; **TRH A2-130.**

[Anon.]; Nelle Hollande [= New Holland, now Australia]; [no other locality data]; [no habitat data]; [no date]; slide 1340; ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*M. amplexifrons* = *L. mediocere tasmanica*']; **TRH A2-131.**

zosteriolum, *Lithophyllum* (f. *tasmanica*). See listing above for **tasmanicum, *Lithophyllum***.

Case A, Drawer 3

A photograph of *Lithophyllum impar* showing a mixture of holotype material in **TRH** and isotype material in **L** was found loose in Drawer A3 but is now housed in a separate envelope. See entry for A3-146.

absimile, *Lithophyllum* [originally described as *Lithophyllum absimile* (Foslie et Howe in Foslie 1907b: 27), but not mentioned in Foslie's subsequent publications]. **Holotype:** **TRH**, A3-132 (see below).

Howe; Jamaica; Sandy Bay, near Montego Bay; [no habitat data]; 9.i.1907; slides 1460, 1477; [Howe collection number] 4965; pfa: Printz 1929, pl. 54, fig. 4; [Note: **Holotype** of *Lithophyllum absimile* Foslie et Howe. Additional data — Afonso-Carrillo 1988: 91 and Woelkerling 1993: 14. Box marked 'N.Y.B.G.' [NY] and 'over anden art [= overgrowing another species]']; **TRH A3-132**.

accedens, *Lithophyllum* [originally described as *Lithophyllum accedens* (Foslie 1907a: 25), but not mentioned in Foslie's subsequent publications]. **Holotype:** **TRH**, A3-133 (see below).

Thaxter; Chile; San Vincent, Talcahuano; [no habitat data]; 1905-1906; slides 1487-1488; comm. Farlow 1907, number 10; pfa: Printz 1929, pl. 54, fig. 9; [Note: **Holotype** of *Lithophyllum accedens*. Additional data — Woelkerling 1993: 15 and Woelkerling 1998c: 298]; **TRH A3-133**.

falklandicum, *Lithophyllum* [originally described as *Lithophyllum marlothii* f. *falklandica* (Foslie 1905e: 17) but subsequently (Foslie 1906b: 14) raised to the rank of species, namely *Lithophyllum falklandicum*, and thereafter retained under that name by Foslie in publication]. **Lectotype:** **TRH**, A3-135 (see below).

Andersson, J.G.; Falklandsøerne [= Falkland Islands]; Seal Cove; [no habitat data]; 8.iii.1902; slide 942; Swedish South Polar Expedition 1901-1903; pfa: Printz 1929, pl. 54, fig. 14; [no notes]; **TRH A3-134**.

Skottsberg; Falklandsøerne [= Falkland Islands]; Port Louis, Berkeley Sound; [no habitat data]; 21.vii.1902; slide 940; Swedish South Polar Expedition 1901-1903, station 35; pfa: Printz 1929, pl. 54, figs 15-16; [Note: **Lectotype** of *Lithophyllum marlothii* f. *falklandica* Foslie. Additional data — Mendoza & Cabioch 1986: 175, and Woelkerling 1993: 89]; **TRH A3-135**.

Skottsberg; Falklandsøerne [= Falkland Islands]; Port Louis, Berkeley Sound; [no habitat data]; 21.vii.1902; slide 941; Swedish South Polar Expedition 1901-1903, station 35; [no pfa]; [Note: box marked '*Lithoph. falklandicum* f. (smaa celler [= small cells])']; **TRH A3-136**.

[Skottsberg]; Falklandsøerne [= Falkland Islands]; Stanley Harbor; [no habitat data]; 18.viii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, station 41; pfa: Foslie 1907c, pl. 2, fig. 12, and Printz 1929, pl. 54, fig. 17; [Note: the two published figures are of different individuals in the same collection]; **TRH A3-137**.

farlowii, *Lithophyllum* Foslie (non Heydrich) [originally described as *Lithophyllum farlowii* Foslie (1901a: 12), a later homonym of *L. farlowii* Heydrich (1901a: 532). *L. farlowii* Foslie renamed *L. neofarlowii* by Setchell & Mason (1943: 95). The entry for *Lithophyllum farlowii* Heydrich is in Drawer A24]. **Lectotype:** **TRH**, A3-138 (see below).

[Farlow]; United States; California, Monterey; [no habitat data]; v.1885; slide 479; Farlow collection number 1; pfa: Printz 1929, pl. 54, figs 5-6; [Note: **Lectotype** of *Lithophyllum neo-*

farlowii Setchell & Mason. Additional Woelkerling 1993: 90, Woelkerling 1998c: 310. The name *L. farlowii* also appears on the box lid]; **TRH A3-138.**

Farlow; [United States]; Kalifornia [= California], Monterey; [no habitat data]; v.1887; slide 418; ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: box marked '*L. yendoii farlowii*']; **TRH A3-139.**

Saunders; [United States]; [Alaska], Baranoff Island, Sitka; [no habitat data]; 16.vi.1899; slide 449; Harriman Alaska Expedition collection no. 438; [no pfa]; [Note: for *Lithophyllum farlowii*, Saunders (1901: 442) lists specimen number as '138', while specimen '438' is identified in Saunders as '*Lepidomorphum yendoii* Foslie'. Foslie never used the latter name in his own publications but did describe *Lithophyllum yendoii* (Foslie 1901b: 21) and placed it in the subgenus *Lepidomorphum*]; **TRH A3-140.**

Saunders; United States; Kalifornia [= California], Pacific Grove; [no habitat data]; vii.1895; slide 451; Saunders collection number 436a; [no pfa]; [Note: box marked '*Lepido. yendoii farlowii*'. Foslie (1900d: 19) recognized *Lepidomorphum* as a subgenus of *Lithophyllum*]; **TRH A3-141.**

[Anon.]; [United States]; California; [no habitat data]; [no date]; slide 1481; herb. Saunders [dispersed amongst several institutions, according to Stafleu & Cowan 1985: 65], comm. Farlow 1907, number 4; [no pfa]; [no notes]; **TRH A3-142.**

fetum, Lithophyllum [originally described as *Lithophyllum fetum* (Foslie 1907a: 24), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A3-143 (see below).

Thaxter; Chile; Puerto de Corral, 40°S.B.; [no habitat data]; 1905-1906; slides 1491-1492; comm. Farlow 1907, number 12; pfa: Printz 1929, pl. 54, figs 7-8; [Note: **Holotype** of *Lithophyllum fetum* Foslie. Additional data — Woelkerling 1993: 92, Woelkerling 1998c: 312]; **TRH A3-143.**

imitans, Lithophyllum [originally described as *Lithophyllum imitans* (Foslie 1909b: 13) in the year of Foslie's death]. **Holotype:** TRH, A3-144 (see below).

Snyder; [United States]; California, Pacific Beach, near San Diego; 'Litoralreg. [= littoral region]'; [no date]; slide 579; comm. F.S. Collins 1901 (collection A); pfa: Printz 1929, pl. 54, figs 10-11; [Note: **Holotype** of *Lithophyllum imitans* Foslie. Additional data — Woelkerling 1993: 121. Box marked '*L. farlowii imitans*']; **TRH A3-144.**

Snyder; [United States]; California, Pacific Beach, near San Diego; 'Litoralreg. [= littoral region]'; [no date]; slide 580; comm. F.S. Collins 1901 (collection B); [no pfa]; [Note: box marked '*L. farlowii imitans*?'. Box also marked '*G. setchellii* delvis [= in part]' and '*G. lacc. f. defor.*']; **TRH A3-145.**

impar, Lithophyllum [originally described as *Lithophyllum marlothii f. subplicata* (Foslie 1902b: 19) but subsequently (Foslie 1909b: 13) raised to species rank and re-described as *Lithothamnion impar* with a nomenclaturally allowable change in epithet from *subplicata* (used by Foslie in the rank of forma) to *impar* (used by Foslie in the rank of species). Both taxa are based on the same type]. **Holotype:** TRH, A3-146 (see below).

Weber-van Bosse; [South Africa]; Natal (ell. mell. Cap og Natal [= or between Cap and Natal]); [no habitat data]; 1893; slides 649-651; [no other collection data]; pfa: Printz 1929, pl. 54, figs 18-21; [Note: **Holotype** of *Lithophyllum impar* Foslie and of *Lithophyllum marlothii f. subplicata*. Additional data — Woelkerling 1993: 121, 211, Chamberlain 1994a: 152, and Woelkerling & Verheij 1995: 58. Collection includes material in three small boxes grouped into a larger box. All three small boxes marked '*L. marlothii f. subplicata* = *Lithoph. impar*'. Photograph showing a mixture of holotype material in TRH and isotype material in L is housed in a separate envelope]; **TRH A3-146.**

marlothii, *Lithophyllum* (f. *falklandica*). See listing above for *falklandicum*, *Lithophyllum*.

marlothii, *Lithophyllum* (f. *subplicata*). See listing above for *impar*, *Lithophyllum*.

muricatum, *Lithophyllum* [originally described as *Phymatolithon muricatum* (Foslie 1906a: 19) but subsequently (Foslie 1908d: 18) transferred without change in rank into *Lithophyllum*]. **Holotype:** TRH, A3-148 (see below).

Yendo; [Canada]; [British Columbia], Nordamerikas vestk. [= west coast of North America], Vancouver Island, Port Renfrew (Port San Juan); [no habitat data]; vi.-vii. 1901; slides 715-716, 718-719, 721, 727; [no other collection data]; pfa: Printz 1929, pl. 54, figs 24-26; [Note: **Holotype** of *Phymatolithon muricatum* Foslie. Additional data — Woelkerling 1993: 154. Mason (1953: 326) noted a type fragment in **UC** (**UC**, 341316) that Steneck & Paine (1986: 224) later mistakenly termed a lectotype. Box marked '*Phymatolithon Lithoph. (?) muricatum*' and 'Overvokst delvis *Lithoph impressum* [= partly overgrowing *Lithophyllum impressum*']'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH A3-148**.

rupestre, *Lithophyllum* [originally described as *Lithophyllum rupestre* (Foslie 1907a: 26), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A3-149 (see below).

Gabriel; Australia; Victoria, Phillip Island, Ocean Beach; [no habitat data]; iv. 1905; slides 1005, 1718 and two slides prepared more recently by G. Maneveldt and two further more recently prepared slides; [no other collection data]; pfa: Printz 1929, pl. 54, fig. 1; [Note: **Holotype** of *Lithophyllum rupestre* Foslie. Additional data — Campbell & Woelkerling 1992: 100, Woelkerling 1993: 192. Newer slides in a cardboard slide holder marked 'Slides prepared by Gavin W. Maneveldt, Univ. of Western Cape, South Africa' and 'Arrived at TRH April 2002']; **TRH A3-149**.

shioense, *Lithophyllum* [originally described as *Lithophyllum shioense* (Foslie 1906a: 23), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A3-150 (see below).

Yendo; Japan; Kii Province [now Wakayama Prefecture], Cape of Shio [now Shio-no-misaki]; low water mark, covering rocks and gravels among the huge rocks at the promontory; 1902; slides 813-814; [no other collection data]; pfa: Printz 1929, pl. 54, figs 12-13; [Note: **Holotype** of *Lithophyllum shioense* Foslie. Additional information — Woelkerling 1993: 199]; **TRH A3-150**.

tuberculatum, *Lithophyllum* [originally described as *Lithophyllum tuberculatum* (Foslie 1906b: 21), where Foslie retained it in publication]. **Type:** not designated (Woelkerling 1993: 227). **TRH** has five syntypes (see below).

Setchell; New Zealand; North Island, Island Bay near Wellington; uppermost sublittoral zone; vi. 1904; slide 1183; Setchell collection number 6340; [no pfa]; [Note: **Syntype material** of *Lithophyllum tuberculatum* Foslie. Additional data — Woelkerling 1993: 227. Box marked '(og o *Lithoph. detrusum* [= as well as *Lithophyllum detrusum*)]'. Printed University of California label from Setchell annotated 'm. overv. konc. [= with overgrown conceptacles]' by Foslie. Grouped with A3-151, A3-159, A3-160, and A3-161 under one entry in Adey & Lebednik 1967: 18]; **TRH A3-147**.

Setchell; New Zealand; North Island, Island Bay near Wellington; uppermost sublittoral zone; vi. 1904; slides 1162-1164; Setchell collection number 6342; [no pfa]; [Note: **Syntype ma-**

- terial** of *Lithophyllum tuberculatum* Foslie. Additional data — Woelkerling 1993: 227. Box marked '(og o *Lithoph. detrusum* [= as well as *Lithophyllum detrusum*)]'. Collection includes printed University of California label from Setchell. Grouped with A3-147, A3-159, A3-160, and A3-161 under one entry in Adey & Lebednik 1967: 18]; **TRH A3-151**.
Setchell; New Zealand; North Island, Island Bay near Wellington; uppermost sublittoral zone; vi.1904; slides 1136-1137; Setchell collection number 6344; pfa: Printz 1929, pl. 54, fig. 3; [Note: **Syntype material** of *Lithophyllum tuberculatum* Foslie. Additional data — Woelkerling 1993: 227. Box marked '*Lithoph. tuberculatum* forma?'. Collection includes printed University of California label from Setchell. Grouped with A3-147, A3-151, A3-160, A3-161 under one entry in Adey & Lebednik 1967: 18]; **TRH A3-159**.
Setchell; New Zealand; North Island, Island Bay near Wellington; uppermost sublittoral zone; vi.1904; slide 1140; Setchell collection number 6345; pfa: Printz 1929, pl. 54, fig. 3; [Note: **Syntype material** of *Lithophyllum tuberculatum* Foslie. Additional data — Woelkerling 1993: 227. Box marked '*Lithoph. tuberculatum*'. Collection includes printed University of California label from Setchell and one annotation slip with a Foslie sketch of a conceptacle but with Setchell's signature. Grouped with A3-147, A3-151, A3-159, and A3-161 under one entry in Adey & Lebednik 1967: 18]; **TRH A3-160**.
Setchell; New Zealand; North Island, Island Bay near Wellington; uppermost sublittoral zone; vi.1904; slide 1138; Setchell collection number 6349; pfa: Printz 1929, pl. 54, fig. 2; [Note: **Syntype material** of *Lithophyllum tuberculatum* Foslie. Additional data — Woelkerling 1993: 227. Box marked '(og o *Lithoph. detrusum* [= as well as *Lithophyllum detrusum*)]'. Collection includes printed University of California label from Setchell. Grouped with A3-147, A3-151, A3-160, and A3-160 under one entry in Adey & Lebednik 1967: 18]; **TRH A3-161**.

vancouveriense, *Lithophyllum* [originally described as *Lithophyllum vancouveriense* (Foslie 1906a: 21), where Foslie retained it in publication]. **Lectotype**: **TRH**, A3-153 (see below).

- Setchell & Gardner; [United States]; Washington, West coast of Whidbey Island; upper sublittoral zone; vi.1901; slides 804-805; Algae of Puget Sound, number 657; pfa: Printz 1929, pl. 54, fig. 23; [Note: box marked 'Ekspl. xx ud af n. [= specimen xx from number] 655' (*Lithoph. whidbeyense*). Collection 655 is the lectotype of *Lithophyllum whidbeyense* and is in Drawer A6 (A6-315)]; **TRH A3-152**.
Yendo; Canada; [British Columbia], Vancouver Island, Port Renfrew (San Juan); [no habitat data]; 6.vii.1901; slides 724-725; [no other collection data]; pfa: Printz 1929, pl. 54, fig. 22 [but see Note]; [Note: **Lectotype** of *Lithophyllum vancouveriense* Foslie. Additional data — Woelkerling 1993: 232, and Athanasiadis et al. 2004, who refined the original lectotypification of Mason (1953: 341). According to Athanasiadis et al. (2004: 133), the collection originally designated as lectotype by Mason comprises material belonging to at least two species, thus requiring a second-step lectotypification (see ICBN Art. 9.14 and Ex. 6). Athanasiadis et al. (2004: 135-136 and Fig 20, A) concluded that the specimen illustrated in Printz 1929, pl. 54, fig. 22 belonged to *Lithothamnion* (most likely *L. phymatodoteum*) and thus narrowed the lectotypification to a single specimen (Athanasiadis et al. 2004: fig. 20,B) not illustrated in Printz (1929). Athanasiadis et al. (2004) referred the refined lectotype to *Mesophyllum*. A specimen in **UC** (**UC**, 397503) was mistakenly termed the lectotype by Steneck & Paine (1986: 233). Collection on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH A3-153**.

verrucosum, *Lithophyllum* [originally described as *Goniolithon verrucosum* (Foslie 1900a: 24) but subsequently (Foslie 1907a: 28) transferred without change in rank into *Lithophyllum*, and thereafter retained under that name by Foslie]. **Lectotype**: **TRH**, A3-154 (see below).

- Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 409; [no other collection data]; pfa: Printz 1929, pl. 54, fig. 27; [Note: **Lectotype** of *Goniolithon verrucosum* Foslie. Additional data — Woelkerling & Campbell 1992: 101, Woelkerling 1993: 235, Penrose 1996: 278]; **TRH A3-154.**
- Engelhart; [Australia]; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 352; [no other collection data]; [no pfa]; [Note: box and slide marked 'G. verrucosum'. Adey & Lebednik 1967: 18 record 7 boxes dated '1899' under one entry but only 4 (A3-155 through A3-158) have been found]; **TRH A3-155.**
- Engelhart; [Australia]; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 353; [no other collection data]; [no pfa]; [Note: box and slide marked 'G. verrucosum'. Adey & Lebednik 1967: 18 record 7 boxes dated '1899' under one entry but only 4 (A3-155 through A3-158) have been found]; **TRH A3-156.**
- Engelhart; [Australia]; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 406; [no other collection data]; [no pfa]; [Note: box and slide marked 'Gon. verrucosum'. Adey & Lebednik 1967: 18 record 7 boxes dated '1899' under one entry but only 4 (A3-155 through A3-158) have been found]; **TRH A3-157.**
- Engelhart; [Australia]; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; [no date]; [no slides]; comm. Engelhart 1899; [no pfa]; [Note: Adey & Lebednik 1967: 18 record 7 boxes dated '1899' under one entry but only 4 (A3-155 through A3-158) have been found]; **TRH A3-158.**
- Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; [no date]; slide 558; comm. Engelhart 1900; [no pfa]; [Note: Adey & Lebednik 1967: 18 record 7 boxes dated '1900' under one entry but only 6 (A3-162 through A3-167) have been found. Material dated 1900 with same collector and locality data occurs in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A3-162.**
- Engelhart; [Australia]; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1900; [no slides, but see Note]; comm. Engelhart 1900; [no pfa]; [Note: box marked '558?', possibly a reference to slide 558 in A3-162 (above). Adey & Lebednik 1967: 18 record 7 boxes dated '1900' under one entry but only 6 (A3-162 through A3-167) have been found. Material dated 1900 with same collector and locality data occurs in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A3-163.**
- Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; [no date]; slide 559; comm. Engelhart 1900; [no pfa]; [Note: Adey & Lebednik 1967: 18 record 7 boxes dated '1900' under one entry but only 6 (A3-162 through A3-167) have been found. Material dated 1900 with same collector and locality data occurs in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A3-164.**
- Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; [no date]; slide 560; comm. Engelhart 1900; [no pfa]; [Note: box marked 'G. veruc.'. Adey & Lebednik 1967: 18 record 7 boxes dated '1900' under one entry but only 6 have been found. Material dated 1900 with same collector and locality data occurs in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A3-165.**
- Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; [no date]; slide 561; comm. Engelhart 1900; pfa: Printz 1929, pl. 54, fig. 30; [Note: Adey & Lebednik 1967: 18 record 7 boxes dated '1900' under one entry but only 6 (A3-162 through A3-167) have been found. Material dated 1900 with same collector and locality data occurs in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A3-166.**
- Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1900; slide 562; [no other collection data]; [no pfa]; [Note: box marked 'anth. konc. [= antheridial conceptacles]'. Adey & Lebednik 1967: 18 record 7 boxes dated '1900' under one entry but only 6 (A3-162 through A3-167) have been found. Material dated 1900 with same collector and locality data occurs in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A3-167.**

Gabriel; Australia; Victoria, Phillip Island, Ocean Beach; [no habitat data]; iv.1905; slides 1001-1002; [no other collection data]; pfa: Printz 1929, pl. 54, fig. 29; [no notes]; **TRH A3-169**.

Case A, Drawer 4

bamleri, *Lithophyllum* [originally described as *Lithothamnion bamleri* (Heydrich 1897b: 4), then (Heydrich 1897c: 412) transferred without change in rank into *Lithophyllum*, then (Foslie 1898b: 9) into *Goniolithon*, and finally (Foslie 1900i: 20) returned to *Lithophyllum* and subsequently retained there by Foslie]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 331).

[Weber-van Bosse]; [Indonesia]; Pula Kabala-øna [= Pula Kabala Island], Borneo Bank; [no habitat data]; 12.-13.vi.1899; slide 1727; Siboga Expedition, station 79b, collection 1201; pfa: Printz 1929, pl. 55, fig. 2; [no notes]; **TRH A4-170**.

[Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15.-17.i.1900; one unnumbered slide; Siboga Expedition, station 282, collection 417; pfa: Foslie 1904b, pl. 12, fig. 1; [no notes]; **TRH A4-171**.

[Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15.-17.i.1900; one unnumbered slide; Siboga Expedition, station 282, collection 686a; [no pfa]; [Note: detailed locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH A4-172**.

belgicum, *Lithophyllum* [originally described as *Lithophyllum belgicum* (Foslie 1909a: 4) in the year of Foslie's death]. **Holotype: TRH**, A4-173 (see below).

[Anon.]; [France]; [Vimport]; [no habitat data]; [no date]; one unnumbered slide; [comm. Borne]; [no pfa]; [Note: **Part of holotype** of *Lithophyllum belgicum*. Additional data — Woelkerling 1993: 38, and Woelkerling 1998c: 304. Adey & Lebednik 1967: 18 and Woelkerling 1993: 38 mistakenly give the collection locality as Belgium, and Adey & Lebednik also mistakenly list the collector as 'Bornet'. Detailed locality data taken from Woelkerling 1998c: 304]; **TRH A4-173**.

byssoides, *Lithophyllum* [originally described as *Nullipora byssoides* Lamarck 1801: 574, and subsequently transferred without change in rank into *Millepora* (Lamarck 1816: 203), then into *Lithothamnion* (Philippi 1837: 388), then into *Spongites* (Kützing 1869: 35), then into *Goniolithon* (Foslie 1898b: 5) and then into *Lithophyllum* (Foslie 1900i: 20), where it was retained subsequently by Foslie]. **Lectotype: PC**, General Herbarium (Woelkerling 1998b: 252).

Kuckuck; [Turkey]; Lilleasien, Østl. Mittelmer, Bucht von Piteh, noestl. Bucht von Budrum (Halicarnass) [= Asia Minor, the Eastern Mediterranean, Gulf of Piteh, northeastern Gulf of Budrum [now Bodrum (Halicarnassus)]; 'in kanalartige Felseneinschnitten [= in canal-like rocky inlets]; 26.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 19 list locality as 'E. Mediterranean, Gulf of Piteh']; **TRH A4-174**.

Mouchez [probably A.E.B. Mouchez]; Mauritanie [= Mauritania]; Côtes de Mauritanie [= coast of Mauritania] [no other locality data]; [no habitat data]; 'été [= summer]' 1876; slide 473; ex herb. Thuret - Bornet [**PC**]; pfa: Printz 1929, pl. 56, fig. 13; [Note: Adey & Lebednik 1967: 19 omit mention of collector]; **TRH A4-175**.

- Nemetz; [Greece]; Rhodos, near to the city of Rhodos; [no habitat data]; vii.1894; slide 525; 'Geringe Tiefe [= (collected at a) shallow depth]'; pfa: Printz 1929, pl. 56, fig. 12; [Note: box annotated that slide was prepared from the largest plant and the photo is of the smallest plant]; **TRH A4-176.**
- [Anon.]; [Greece]; [no other locality data]; [no habitat data]; [no date]; slide 526; Exp. Sc. Moreé [= Expédition scientifique de Morée], ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: **Probable isolectotype fragment** from **PC** isolectotype in Thuret - Bornet herbarium. Additional data — Woelkerling 1993: 225, and Woelkerling 1998c: 385. **TRH** box marked '*Millepora trochanter* Bory']; **TRH A4-177.**
- [Anon.]; Grekenland [= Greece]; Nisyro Island; [no habitat data]; [no date]; slide 438; comm. S. Miliarakis; pfa: Printz 1929, pl. 56, fig. 11; [Note: collection includes note with locality data and the name 'S. Miliarakis' but it is unclear whether Miliarakis collected as well as sent the material. Adey & Lebednik 1967: 19 list collector as 'Miliarakis' but do not mention slide]; **TRH A4-178.**
- [Anon.]; [Croatia]; Dalmatien [= Dalmatia]; [no habitat data]; [no date]; slide 528; ex herb. Hauck [**L**]; [no pfa]; [Note: box marked 'sp. konc. fotogr. [= sporangial conceptacles photographed]']; **TRH A4-180.**
- [Anon.]; Rothes Meer [= Red Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Hauck [**L**]; [no pfa]; [Note: box marked 'st---- typisk [= structure typical]' and 'fra [= from] Rikao' (or Rihao)]; **TRH A4-179.**

byssoides, Lithophyllum (f. amphiroaeformis) [a nomen nudum used by Foslie for one collection in his herbarium. See Woelkerling 1993: 25 for additional data. Collection listed in Adey & Lebednik 1967: 19 under species without mention of forma]

- Børgesen; [France]; Corsica, Ajaccio; 'i fjæren [= in the tidal zone]'; xi.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 14, 'minste ekspl. [= smallest specimen]'; [Note: f. *amphiroaeformis* is a nomen nudum. Additional data — Woelkerling 1993: 25]; **TRH A4-181.**

byssoides, Lithophyllum (f. ramosissima) [originally described as *Lithophyllum cristatum* f. *ramosissima* (Heydrich 1902: 473) but the forma subsequently (Foslie 1904c: 5) transferred without change in rank into *Lithophyllum byssoides* as *Lithophyllum byssoides* f. *ramosissima*, where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 19 under species without mention of forma]. **Holotype: TRH, A4-182** (see below).

- [Anon.]; Algeria; [no other locality data]; [no habitat data]; [no date]; slide 847; [ex] Herb. Mus. Hist. nat. Paris [**PC**]; pfa: Printz 1929, pl. 56, fig. 15 [as *Lithophyllum cristatum* f. *ramosissima*]; [Note: box marked '*Lithoph cristatum* f. *ramosissima* Bull. Mus. d'hist. nat. Paris 1902, p. 473' and '= *L. byssoides* f. *ramosiss*'. **Lectotype** of *Lithophyllum cristatum* f. *ramosissima* Heydrich. Additional data — Woelkerling 1993: 186, and Woelkerling 1998c: 308, and Bressan & Cabioch 2004: 234. **TRH** material derived from a collection in **PC** reported missing by Woelkerling 1998c: 308, but photograph of the **PC** collection is present in **TRH** and now has been placed in an envelope marked 'Photograph of the **PC** collection from which the lectotype of *Lithophyllum cristatum* f. *ramosissima* Heydrich was derived'. Slide 847 marked '*Lithoph. cristatum* f. *ramosissima*'. Another slide, also numbered 847 by Foslie, accompanies the type collection of *Goniolithon elatocarpum* (A14-737)]; **TRH A4-182.**

cristatum, Lithophyllum (f. ramosissima). See listing above for **byssoides, Lithophyllum (f. ramosissima).**

hermaphroditum, Perispermon [originally described as *Perispermon hermaphroditum* (Heydrich 1901c: 410), but treated by Foslie (1904b: 64) as a heterotypic synonym of

Lithophyllum bamleri. The type of *Perispermon hermaphroditum* was found with other collections of *Lithophyllum bamleri* in Foslie's herbarium]. **Lectotype:** TRH, A4-183 (see below).

[Bamler]; [Papua New Guinea]; [Bismarck Archipelago], Ile Tami [= Tami Island]; [no habitat data]; 1897; slides 857-858; ex herb. Chalon [BR], 'Donni par Heydrich'; pfa: Printz 1929, pl. 55, fig. 3; [Note: **Lectotype** of *Perispermon hermaphroditum* Heydrich. Additional data — Woelkerling 1991: 136, Woelkerling 1993: 115, Woelkerling & Verheij 1995: 57, and Woelkerling 1998c: 387]; **TRH A4-183.**

hyperellum, *Lithophyllum* [originally described as *Lithophyllum hyperellum* (Foslie 1900a: 27), where Foslie retained it in publication]. **Lectotype:** TRH, A4-190 (see below).

Gabriel; Australia; [Victoria], Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'steril [= sterile]'. Collection grouped in Adey & Lebednik 1967: 19 under one entry with three other collections of *L. hyperellum* f. *hyperellum* (A3-185, A3-186, A3-187) and one of f. *heteroidea* (A3-193)]; **TRH A4-184.**

Gabriel; Australia; [Victoria], Corner [Inlet], øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. fotogr. [= conceptacles photographed]'. Collection grouped in Adey & Lebednik 1967: 19 under one entry with three other collections of *L. hyperellum* f. *hyperellum* (A3-184, A3-186, A3-187) and one of f. *heteroidea* (A3-193)]; **TRH A4-185.**

Gabriel; Australia; [Victoria], Corner [Inlet], øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]' and '*L. fumigatum hyperellum*'. Collection grouped in Adey & Lebednik 1967: 19 under one entry with three other collections of *L. hyperellum* f. *hyperellum* (A3-184, A3-185, A3-187) and one of f. *heteroidea* (A3-193)]; **TRH A4-186.**

Gabriel; Australia; [Victoria], Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. hyperellum* f.?''. Collection grouped in Adey & Lebednik 1967: 19 under one entry with three other collections of *L. hyperellum* f. *hyperellum* (A3-184, A3-185, A3-186) and one of f. *heteroidea* (A3-193)]; **TRH A4-187.**

Gabriel; [Australia]; Victoria, Port Phillip Bay; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]']; **TRH A4-188.**

Gabriel; [Australia]; Victoria, Westernport; collection depth: ca 4 fathoms; 1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles] (150-225µ)']; **TRH A4-189.**

Gabriel; Australia; Victoria, Westernport; collection depth: 3-5 fathoms; 1899; slide 511; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithophyllum hyperellum* Foslie. Additional data — Woelkerling 1993: 119. Box marked '*Lithoph. hyperellum* f. *fastigiata*' a superfluous substitute for *L. hyperellum* f. *hyperellum* (see Woelkerling 1993: 91 & 119)]; **TRH A4-190.**

Gabriel; Australia; Victoria, Westernport; collection depth: 3-5 fathoms; 1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 55, figs 7-9; [Note: Adey & Lebednik 1967: 19 mistakenly associate slide 512 with this collection. Slide 512 belongs to the lectotype of *Lithophyllum hyperellum* f. *heteroidea* Foslie]; **TRH A4-191.**

hyperellum, *Lithophyllum* (f. *fastigiata*) [a superfluous substitute name for *Lithophyllum hyperellum* f. *hyperellum* — see Woelkerling 1993: 91, 119. Collections listed under *Lithophyllum hyperellum* above]

hyperellum, *Lithophyllum* (f. *heteroidea*) [originally described as *Lithophyllum hyperellum* f. *heteroidea* (Foslie 1900a: 27), where Foslie retained it in publication. Collections listed

in Adey & Lebednik 1967: 19 under species without mention of forma]. **Lectotype:** TRH, A4-192 (see below).

Gabriel; [Australia]; Victoria, Corner Inlet, east of Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 55, figs 10-13; [Note: collection grouped in Adey & Lebednik 1967: 19 under one entry with four collections of *L. hyperellum* (f. *hyperellum*) (A3-184, A3-185, A3-186, A3-187)]; **TRH A4-193.**

Gabriel; Australia; Victoria, Westernport; collection depth: 3-5 fathoms; 1899; slide 512; [no other collection data]; [no pfa]; [Note: **LECTOTYPE** of *Lithophyllum hyperellum* f. *heteroidea* Foslie. Additional data — Woelkerling 1993: 116. Collection consists of one large box containing two smaller boxes, one marked 'konc. [= conceptacles]' and the other marked 'steril [= sterile]']; **TRH A4-192.**

marlothii, Lithophyllum [originally described as *Lithothamnion marlothii* (Heydrich 1897a: 61), then transferred without change in rank into *Lithophyllum* (Heydrich 1897c: 410), then into *Goniolithon* (Foslie 1898b: 7), and finally (Foslie 1900a: 10) returned to *Lithophyllum* and subsequently retained there by Foslie]. **Type:** not designated (Woelkerling 1993: 145, Chamberlain 1994a: 154-155). **TRH** has one syntype (A4-196).

Gravier; Afrika [= Africa], [São Tomé and Príncipe]; St. Thome; [no habitat data]; [no date]; slide 1262; comm. P. Hariot, 1907, number 5; [no pfa]; [Note: box contains annotation slip marked '*Mesophyllum canariense* (Fos.) Lemoine, determ. Lemoine (dup. in Paris)']; **TRH A4-195.**

Lippert; [South] Africa; Port Elizabeth; [no habitat data]; 20.xii.1896; slide 679, 'ungt eksemplar [= young specimen]'; ex Bot. Mus Hamburg [**HBG**]; [no pfa]; [no notes]; **TRH A4-197.**

Weber-van Bosse; Vestafrika [= West-Africa], [i.e. Republic of South Africa]; Port Nolloth, nær Kap [= near Cape]; [no habitat data]; ix.1894; slide 707; [no other collection data]; [no pfa]; [Note: grouped with A4-199 under one entry in Adey & Lebednik 1967: 19]; **TRH A4-198.**

Weber-van Bosse; Vestafrika [= West-Africa], [i.e. Republic of South Africa]; Port Nolloth, nær Kap [= near Cape]; [no habitat data]; ix.1894; slide 710; [no other collection data]; pfa: Printz 1929, pl. 55, figs 5-6; [Note: grouped with A4-198 under one entry in Adey & Lebednik 1967: 19]; **TRH A4-199.**

[Anon.], [probably H. Becker]; [South Africa]; Kap d. gode haab [= Cape of Good Hope]; [no habitat data]; v.1899; [no slides]; comm. Dr H. Becker; [no pfa]; [Note: box marked 's. med [= mixed with] *Lith. synanablastum*'. Some writing on box difficult to read]; **TRH A4-194.**

[Anon.]; [South] Africa; Champsbay, Cap [near Cape Town]; [no habitat data]; [no date]; slide 417 [broken]; Heydrich number 80; pfa: Printz 1929, pl. 55, fig. 4; [Note: **SYNTYPE** of *Lithothamnion marlothii* Heydrich. Additional data — Woelkerling 1993: 145 and Chamberlain 1994a: 154-155 and Woelkerling 1998c: 355. Box marked ' "*L. crassum* forma nov. oder [= new or] *Lith. sp. nov.?* [= new species?]" ' and 'wächst nie im Kugeln wie *L. crass.* [= never grows in spheres like *L. crassum*']. Adey & Lebednik 1967: 19 mistakenly list 'Heydrich' as the collector]; **TRH A4-196.**

moluccense, Lithophyllum [originally described as *Lithothamnion moluccense* (Foslie 1897b: 12), then (Foslie 1898b: 8) transferred without change in rank into *Goniolithon* and then (Foslie 1901a: 12) into *Lithophyllum* and subsequently retained there by Foslie]. **Holotype:** TRH, A4-202 (see below).

Bowen; [Australia]; Queensland; [no habitat data]; [no date]; slide 598; ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [no notes]; **TRH A4-201.**

Kükenthal; [Indonesia]; Molukkerne [= Moluccas Islands]; [no habitat data]; [no date]; slide 432 and 29 unnumbered slides; ex herb. Prof. Dr M. Möbius [location unknown, accord-

ing to Stafleu & Cowan 1981: 531]; pfa: Printz 1929, pl. 55, fig. 14; [Note: **Holotype** of *Lithothamnion moluccense* Foslie. Additional data — Woelkerling 1993: 152, and Verheij 1994: 103, 105. Collection includes two photos and a glass negative placed in a separate envelope]; **TRH A4-202**.

[Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 105; [no pfa]; [no notes]; **TRH A4-203**.

[Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 121; pfa: Printz 1929, pl. 55, fig. 15; [no notes]; **TRH A4-204**.

[Weber-van Bosse]; [Indonesia]; Karkaralong group; [no habitat data]; 22.-23.vii.1899; [no slides]; Siboga Expedition, station 129, collection 903; [no pfa]; [Note: box marked 'konc. [= conceptacles]']; **TRH A4-205**.

Weber-van Bosse; [Indonesia]; Makassar, Banda A. [= Banda anchorage]; [no habitat data]; 1899; slide 530; Siboga Expedition; [no pfa]; [Note: box also annotated 'præp. [= slide 531]'. Slide 531, however, belongs to another collection (A4-207)]; **TRH A4-206**.

Weber-van Bosse; [Indonesia]; Makassar; [no habitat data]; 1899; slide 531; Siboga Expedition, station 220, collection 1182; pfa: Printz 1929, pl. 55, fig. 16; [Note: box marked 'L. moluccense f. typica'. Slide 531 also is referred to on another collection box (A4-206) which also contains slide 530. Annotation slip in box includes names of collector and expedition]; **TRH A4-207**.

[Weber-van Bosse]; [Indonesia]; Saleh baai; collection depth: 8-16 metres; [no date]; [no slides]; Siboga Expedition; [no pfa]; [Note: collection is in a glass bottle but associated data does not include species name. Listed under *Lithophyllum moluccense* in Adey & Lebednik 1967: 19]; **TRH A4-208**.

[Anon.]; Karolinerne [= Caroline Islands]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Bot Mus. Hamburg [**HBG**]; [no pfa]; [Note: Adey & Lebednik 1967: 19 mistakenly record the collection as 'ex herb. Mus. Paris' [**PC**]. Box marked 'f. typica & f. pygmaea']; **TRH A4-209**.

moluccense, *Lithophyllum* (f. *flabelliformis*) [originally described as *Lithothamnion tamiense* (Heydrich 1897b: 1) but subsequently (Foslie 1901d: p. 24, footnote) reduced in rank and treated as a form of *Lithophyllum moluccense* with a nomenclaturally allowable change in epithet from *tamiense* to *flabelliformis*. The two taxa are based on the same type. Foslie filed the **TRH** isoelectotype (A4-200) under *Lithophyllum moluccense* but did not re-label the collection as f. *flabelliformis*. Additional data — Woelkerling 1993: 94 & 220, Silva et al. 1996: 250 (note under *Lithophyllum pygmaeum*) and Woelkerling 1998c: 362-363). Collections listed in Adey & Lebednik 1967: 19 under *Lithophyllum moluccense* without mention of forma]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 362).

[Bamler]; [Papua New Guinea]; [Bismarck Archipelago], Tami Inseln [= Tami Island]; [no habitat data]; [no date]; slide 652; ex herb. Mus. Paris [**PC**]; [no pfa]; [Note: box marked 'L. tamiense'. Slide marked 'L. tamiense = L. moluccense'. **Isoelectotype** of *Lithothamnion tamiense* Heydrich and of *Lithophyllum moluccense* f. *flabelliformis*. Additional data — Woelkerling 1993: 94 & 220, Verheij 1994: 103, 105 (as *Lithophyllum tamiense*), and Woelkerling 1998c: 362]; **TRH A4-200**.

Gardiner; Seychelles; Praslin [Island]; reef; xi.1905; slide 1269; [no other collection data]; pfa: Printz 1929, pl. 55, fig. 19; [Note: box marked 'præp. 1269 af største stk. [= slide 1269 of largest piece]']; **TRH A4-210**.

moluccense, *Lithophyllum* (f. *pygmaea*) [originally described as *Lithothamnion pygmaeum* (Heydrich 1897b: 3-4), but subsequently (Foslie 1904b: 67) reduced to the rank of form and treated as *Lithophyllum moluccense* f. *pygmaea*. Collections listed in Adey & Lebednik 1967: 19 under species without mention of forma]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 361).

- [Weber-van Bosse]; [Indonesia]; Binongka; [no habitat data]; 1.-3.xi.1899; [no slides]; Siboga Expedition, station 220, collection 1179; pfa: Foslie 1904b, pl. 12, fig. 7; [Note: box marked 'konc. [= conceptacles]']; **TRH A4-211.**
- [Weber-van Bosse]; [Indonesia]; Binongka; [no habitat data]; 1.-3.xi.1899; one unnumbered slide; Siboga Expedition, station 220, collection 1185; pfa: Printz 1929, pl. 55, fig. 20; [Note: box marked 'anth.? [= antheridia?]' and slide marked 'anth. konc.? [= antheridial conceptacles?]']; **TRH A4-213.**
- [Weber-van Bosse]; [Indonesia]; Binongka; [no habitat data]; 1.-3.xi.1899; [no slides]; Siboga Expedition, station 220, collection 1187; pfa: Foslie 1904b, pl. 12, fig. 12; [Note: box marked 'konc. [= conceptacles]']; **TRH A4-215.**
- [Weber-van Bosse]; [Indonesia]; Binongka; [no habitat data]; 1.-3.xi.1899; [no slides]; Siboga Expedition, station 220, collection 1193; pfa: Foslie 1904b, pl. 12, fig. 13; [no notes]; **TRH A4-216.**
- [Weber-van Bosse]; [Indonesia]; Binongka; [no habitat data]; 1.-3.xi.1899; [no slides]; Siboga Expedition, station 220; [no pfa]; [Note: box marked 'nær [= close to] f. *pygmaea*' and 'div. ekspl. [= various specimens]' and 'konc. [= conceptacles]']; **TRH A4-217.**
- [Weber-van Bosse]; [Indonesia]; Makassar; [no habitat data]; 1899; [no slides]; Siboga Expedition, station 220, collection 1180; [no pfa]; [no notes]; **TRH A4-212.**
- [Weber-van Bosse]; [Indonesia]; Makassar; [no habitat data]; [no date]; slide 713; Siboga Expedition, collection 1186; [no pfa]; [Note: collection consists only of slide]; **TRH A4-214.**

moluccense, Lithophyllum (f. torquescens) [originally described as *Lithophyllum torquescens* (Foslie 1901a: 11) but subsequently (Foslie 1904b: 69) reduced to the rank of form and treated as *Lithophyllum moluccense* f. *torquescens*, without further mention in Foslie's publications. Collections listed in Adey & Lebednik 1967: 19 under species without mention of forma]. **Lectotype:** TRH, A4-219 (see below).

- Agassiz; Mauritius; [no other locality data]; [no habitat data]; [no date]; slide 507; comm. Farlow, 1900, number XXXIV; [no pfa]; [Note: annotation slip in box marked 'Mauritius?'. The 1900 comm. date is on the slide but not the box]; **TRH A4-218.**
- Agassiz; Mauritius?; [box marked 'Locality unknown (Mauritius?)']; [no habitat data]; [no date]; slide 508; comm. by Farlow number XXXV; pfa: Foslie 1904b, pl. 12, fig. 11, and Printz 1929, pl. 55, fig. 17; [Note: **Lectotype** of *Lithophyllum torquescens* Foslie. Additional data — Woelkerling 1993: 224, and Verheij 1994: 103, 105]; **TRH A4-219.**
- Agassiz; Mauritius; [no other locality data]; [no habitat data]; [no date]; slide 658; Herb. Mus. Paris [PC], no.16; [no pfa]; [Note: box marked '*L. pygmaeum*' and '= *L. torquescens*' with references to Heydrich 1901a and Foslie 1901d. Slide marked '*L. pygmaeum* Heydr. = *L. torquescens* Fol.'. Additional data — Woelkerling 1998c: 361. The specific epithet '*moluccense*' does not appear on box or slide]; **TRH A4-220.**

munitum, Lithophyllum [originally described as *Lithophyllum munitum* (Foslie & Howe 1906b: (132)), where Foslie retained it in publication]. **Holotype:** NY, Howe collection 4023 (Woelkerling 1993: 153).

- Howe; Bahamas; Exuma Chain, Cave Cays; [no habitat data]; 19.ii.1905; three slides marked with Howe collection number 4023 and two newer slides prepared by G. Maneveldt and two further more recently prepared slides; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 17; [Note: **Isotype** of *Lithophyllum munitum* Foslie. Additional data — Woelkerling 1993: 153, Woelkerling & Verheij 1995: 66 and Woelkerling 1998c: 319. Box marked 'New York Botanical Garden No. 4023' [NY] and '*Lithoph. (Eulithoph.?) munitum* Fosl. & Howe'. Newer slides in a cardboard slide holder marked 'Slides received from Gavin W. Maneveldt, Univ. of Western Cape, South Africa' and 'April 2002' According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in NY. Adey & Le-

bednik 1967: 20 mistakenly associate slide 1010 (see A4-222) with this collection and both Adey & Lebednik 1967: 20 and Woelkerling 1993: 153 mistakenly associate Printz 1929, pl. 56, fig. 16 (see A4-222) with this collection]; **TRH A4-221**.

Howe; Bahamas; Exuma Chain, Cave Cays; [no habitat data]; 19.ii.1905; slide 1010 [missing]; [Howe collection number] 4023b; pfa: Printz 1929, pl. 56, fig. 16; [Note: **Isotype** of *Lithophyllum munitum* Foslie. Additional data — Woelkerling 1993: 153, and Woelkerling 1998c: 319. Also see note to other **TRH** isotypes of this species]; **TRH A4-222**.

[Howe]; Bahamas; [Exuma Chain, Cave Cays]; [no habitat data]; [19.ii.1905]; two slides, one labelled with Howe collection number 4023 and the other 4023b; [Howe collection number] 4023b; [no pfa]; [Note: **Probable isotype** of *Lithophyllum munitum* Foslie. Additional data — Woelkerling 1993: 153, and Woelkerling 1998c: 319. Box marked 'sp. konc. fotogr. [= sporangial conceptacles photographed]'. This collection not mentioned in Adey & Lebednik 1967, and it is uncertain whether it was derived from A2-221 or A2-222 or both]; **TRH A4-223**.

Howe; Jamaica; utenfor [= outside] Montego Bay; [no habitat data]; 12.i.1907; slides 1464 'af mindste eks. [= of smallest specimen]', 1465 'af største [= of largest]'; [Howe collection number] 5001; [no pfa]; [Note: box marked 'N.Y.B.G. nr 5001' [**NY**] and '*Lithoph. munitum* (?)' and 'steril [= sterile]']; **TRH A4-224**.

Howe; Puerto Rico; Culebra Island; on roots of *Rhizophora* near low water mark; 25.iii.1906; slides 1080, 1179; [Howe collection number] 4289; [no pfa]; [Note: 'New York Botanical Garden' [**NY**] printed on slip affixed to box lid which also is marked '*Lithoph. munitum* (?)'. Slide numbers not recorded on box lid]; **TRH A4-225**.

pygmaeum, Lithothamnion. See listing above for *moluccense, Lithophyllum* (f. *pygmaea*).

tamiense, Lithothamnion. See listing above for *moluccense, Lithophyllum* (f. *flabelliformis*).

torquescens, Lithophyllum. See listing above for *moluccense, Lithophyllum* (f. *torquescens*).

Case A, Drawer 5

During the present study, a glass negative in an envelope labelled 'Lithoph. tortuosum' was found in Drawer A5, but the specimen does not match any of the specimens depicted in Printz 1929. The glass negative and original envelope have now been placed in a new envelope marked 'Glass negative of a specimen of *Lithophyllum tortuosum* that may relate to a collection in Drawer A5'. The original envelope also contained a letter from E. Bornet. A photocopy of the letter is now in a separate envelope marked 'Photocopy of a letter found in Drawer A5'.

crassum, Lithophyllum. See listing below for *tortuosum, Lithophyllum* (f. *crassa*).

cristatum, Lithophyllum. See listing below for *tortuosum, Lithophyllum* (f. *cristata*).

impressum, Lithophyllum [originally described as *Lithophyllum impressum* (Foslie 1906a: 21), where Foslie retained it in publication]. **Lectotype:** **TRH**, A5-226 (see below).

Yendo; [Canada]; [British Columbia], Vancouver Island, Port Renfrew (Port San Juan); [no habitat data]; vi.-vii.1901; slide 723; [no other collection data]; pfa: Printz 1929, pl. 57, fig. 6; [Note: **Lectotype** of *Lithophyllum impressum* Foslie. Additional data — Woelkerling

1993: 122. Collection includes a 1976 annotation by P.A. Lebednik, who selected the material as lectotype]; **TRH A5-226**.

Yendo; Canada; [British Columbia], Vancouver Island, Port Renfrew (Port San Juan); [no habitat data]; vi.-vii.1901; slides 720, 722; [no other collection data]; [no pfa]; [Note: **Isolectotype** of *Lithophyllum impressum* Foslie. Additional data — Woelkerling 1993: 122. The box housing this collection originally also housed the lectotype. Collection includes 1976 annotation slip from P.A. Lebednik, who mistakenly labelled the material as syntype. Collection also includes two empty small boxes respectively marked '720' and '722']; **TRH A5-227**.

tortuosum, Lithophyllum [originally described as *Millepora tortuosa* (Esper 1796: 118), but subsequently (Foslie 1898b: 9) transferred without change in rank into *Goniolithon* and then (Foslie 1900i: 20) into *Lithophyllum*, where Foslie retained it in publication]. **Lectotype: FR**, unnumbered (Woelkerling, Chamberlain & Silva 1985: 322).

Chalon; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A5-229, A5-236 (identified as f. *crassa*) and A5-254 (identified as f. *cristata*) under one entry in Adey & Lebednik 1967: 20]; **TRH A5-228**.

Chalon; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A5-228, A5-236 (identified as f. *crassa*) and A5-254 (identified as f. *cristata*) under one entry in Adey & Lebednik 1967: 20]; **TRH A5-229**.

Sauvageau; Espagne [= Spain]; Rivadeo; [no habitat data]; x.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. tortuosum* forma']; **TRH A5-230**.

[Anon.]; [France]; Antibes; [no habitat data]; 18.i.1859; slide 2; ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: slide marked 'Ed. Bornet']; **TRH A5-231**.

[Anon.]; [France]; Banyuls-sur-Mer; [no habitat data]; ix.1893; [no slides]; comm. Flahault; [no pfa]; [Note: grouped with a collection of f. *crassa* (A5-249) under one entry in Adey & Lebednik 1967: 20, who mistakenly list the collector for both as 'Flahault']; **TRH A5-232**.

[Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Mus. d'hist. nat. Paris [**PC**], comm. P. Hariot, 1907, numbers 6 & 11; [no pfa]; [Note: Adey & Lebednik (1967: 20) mistakenly list 'Hariot' as the collector and '1907' as the collection date]; **TRH A5-233**.

[Anon.]; Monaco; Middelhavet [= the Mediterranean]; [no habitat data]; [no date]; [no slides]; comm. Hariot, 1906, number 1 [material almost certainly sent from **PC**]; [no pfa]; [Note: Adey & Lebednik (1967: 20) mistakenly list the collector as 'Hariot' and the collection date as '1906']; **TRH A5-234**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: one accompanying label is marked '*Lithophyllum Lepidomorphum Ramosa tortuosum*' and a second label is marked 'konc. [= conceptacles]' and 'ingen sporer [= without spores]']; **TRH A5-235**.

tortuosum, Lithophyllum (f. crassa) [originally described as *Melobesia crassa* (Lloyd 1860, no. 318), then (Rosanoff 1866: 93) transferred without change in rank into *Lithophyllum*, then (Hauck 1883a: 271) reduced to the rank of form and treated as *Lithophyllum cristatum* f. *crassa*, then (Foslie 1898b: 9) transferred without change in rank into *Goniolithon tortuosum* (as *G. tortuosum* f. *crassa*), then (Foslie 1899c: 15) changed back to *Lithophyllum cristatum* f. *crassa* and then (Foslie 1900i: 20) transferred without change in rank into *Lithophyllum tortuosum* (as *L. tortuosum* f. *crassa*), where Foslie retained it in publication. Listings below include boxes labelled by Foslie with the names *Lithoph. cristatum* f. *crassa* or *Lithoph. cristatum* var. *crassa* but filed by him with other collections labelled *Lithophyllum tortuosum* f. *crassa*. Collections listed in Adey & Lebednik 1967: 20

under species without mention of forma]. **Lectotype: PC**, Thuret - Bornet Herbarium (Woelkerling 1998c: 370).

- Chalon; [France]; [Pyrénées Orientales], Banyuls-sur-Mer; [no habitat data]; viii.1905; slide 1724; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 6; [Note: grouped with A5-228 (identified as *L. tortuosum* f. *tortuosa*), A5-229 (identified as *L. tortuosum* f. *tortuosa*) and A5-254 (identified as f. *cristata*) under one entry in Adey & Lebednik 1967: 20. Box marked 'overg. f. *cristata* [= grading into f. *cristata*']. Collection includes annotation slip marked 'konc. [= conceptacles]']; **TRH A5-236.**
- Chalon; [France]; Biarritz; [no habitat data]; v.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 7; [Note: box marked '*Lithoph. cristatum* f. *crassa*'. Annotation slip in box marked 'konc. [= conceptacles]' and 'ingen sp. [= without sporangia]']; **TRH A5-237.**
- Chalon; [France]; Biarritz; [no habitat data]; v.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. cristatum* f. *crassa*'. Annotation slip in box marked 'conceptacles']; **TRH A5-238.**
- Debray; [Algeria]; Algier, St. Eugène; [no habitat data]; v.1884; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 9; [no notes]; **TRH A5-239.**
- Debray; [Algeria]; Algier, St. Eugène; [no habitat data]; v.1884; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A5-240.**
- Dufour; [France]; Gênes; 'ungt ekspl. paa [= young specimen on] *Mytilus*'; vi.1877; slide 1721; ex herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked '*Lithoph. cristat.* var. *crassa*']; **TRH A5-241.**
- Hauck; [Italy]; Spezzia [= Spezia]; [no habitat data]; [no date]; [no slides]; ex herb. Weber-van Bosse [L]; [no pfa]; [no notes]; **TRH A5-242.**
- Kuckuck; Marokko [= Morocco]; Agla (zw. [= between] Cape Spartel u. [= and] Tanger [= Tangier]); [no habitat data]; i.1901; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A5-244 and A5-245 under one entry in Adey & Lebednik 1967: 20]; **TRH A5-243.**
- Kuckuck; Marokko [= Morocco]; Agla (zwischen [= between] Cape Spartel und [= and] Tanger [= Tangier]); [no habitat data]; v.1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 8; [Note: grouped with A5-243 and A5-245 under one entry in Adey & Lebednik 1967: 20. Box marked '*Lithoph. cristatum* f. *crassa*']; **TRH A5-244.**
- Kuckuck; Marokko [= Morocco]; Agla (zwischen [= between] Cape Spartel und [= and] Tanger [= Tangier]); [no habitat data]; v.1901; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A5-243 and A5-244 under one entry in Adey & Lebednik 1967: 20. Box marked 'koncept. [= conceptacles]']; **TRH A5-245.**
- Rosenvinge; [France]; Biarritz; [no habitat data]; 4.iv.1885; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A5-246.**
- Sauvageau; [France]; Basses Pyrénées, Guéthary, Biarritz; [no habitat data]; 3.v.1898 (or iii.-v.1898); slide 1723; [no other collection data]; [no pfa]; [Note: the date is written '3.-5.1898' on box]; **TRH A5-247.**
- Sauvageau; Espagne [= Spain]; San Vincent de la Barquera; [no habitat data]; 5.-9.ix.1895 and ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection appears to contain an inseparable mixture of material obtained on two different dates]; **TRH A5-248.**
- [Anon.]; [France]; Golfe de Lion près Banyuls-sur-Mer (Roussillon); collection depth: 35 metres; 10.ix.1893; [no slides]; comm. Flahault; [no pfa]; [Note: grouped with a collection of *Lithophyllum tortuosum* (A5-232) under one entry in Adey & Lebednik 1967: 20, who mistakenly list the collector for both as 'Flahault'. Box marked 's. med [= mixed with] *L. in-crustans*']; **TRH A5-249.**
- [Anon.]; Marokko [= Morocco]; Tanger [= Tangier]; [no habitat data]; [no date]; [no slides]; [ex] Mus. d'hist. Nat. Paris [PC], comm. P. Hariot, 1905, number 2; [no pfa]; [Note: grouped with A5-251 under one entry in Adey & Lebednik 1967: 20 who mistakenly list 'Hariot' as the collector and '1905' as the collection date]; **TRH A5-250.**

[Anon.]; Marokko [= Morocco]; Tanger [= Tangier]; [no habitat data]; [no date]; [no slides]; [ex] Mus. Paris [PC], comm. Hariot, 1907; [no pfa]; [Note: grouped with A5-250 under one entry in Adey & Lebednik (1967: 20) who mistakenly list 'Hariot' as the collector and '1907' as the collection date]; **TRH A5-251.**

[Anon.]; Portugal; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Univ. Coimbra [COI]; [no pfa]; [Note: box marked '*Spongites agariciformis* Kütz. = *Lithoph. tortuosum* f. *crassa*'. Annotation slip in box marked 'Ex. Herb. Prof. Henriques' [COI]]; **TRH A5-252.**

tortuosum, *Lithophyllum* (f. *cristata*) [originally described as *Lithophyllum cristatum* (Meneghini 1840a: no. 9, then repeated in Meneghini 1840b: 512). Subsequently transferred without change in rank into *Spongites* (Kützting 1849: 698), then into *Melobesia* (Ardissonne 1883: 447), then into *Lithothamnion* (Foslie 1895a: 205), then (Foslie 1898b: 9) reduced to the rank of form and transferred into *Goniolithon* (as *Goniolithon tortuosum* f. *cristata*), and then (Foslie 1900i: 20) transferred without change in rank into *Lithophyllum tortuosum* f. *cristata*, where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 20 under species without mention of forma]. **Type:** possibly in FI (Stafleu & Cowan 1981: 413) but further information not found during present study.

Børgesen; [France]; Corsica, [no other locality data]; 'i fjæren [= in the tidal zone]'; xi.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A5-253.**

Chalon; [France]; [Pyrénées Orientales], Banyuls-sur-Mer; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 56, fig. 3; [Note: grouped with A5-228 (identified as *L. tortuosum* f. *tortuosa*), A5-229 (identified as *L. tortuosum* f. *tortuosa*) and A5-236 (identified as f. *crassa*) under one entry in Adey & Lebednik 1967: 20. The other three boxes are dated 'viii.1905', but this box lacks a date]; **TRH A5-254.**

Lichtenstern; [Croatia]; Adriatic Sea, Rovigno [now Rovinj]; collection depth: 28 metres; [no date]; [no slides]; ex Bot. Mus. Wien [W]; [no pfa]; [Note: box marked '*Lithymenia polymorpha* Zan.' and 'Vistnok feil etiket den tilh. antagelig *Peyssonnelia polymorpha* [= probably incorrect label, the label probably belongs to *Peyssonnelia polymorpha*']. Collector is printed on label inside of box]; **TRH A5-258.**

Rosenvinge; [France]; Antibes, (Ilethe); [no habitat data]; 4.i.1885; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A5-255.**

Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; 'uds. sted [= exposed places]'; vi.1906; slide 1722; laborat. Arago; pfa: Printz 1929, pl. 56, fig. 4; [no notes]; **TRH A5-256.**

Vickers; France; Antibes; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tortuosum* f. *cristata* og overg. [= and grading into] *decumbens*']; **TRH A5-257.**

[Anon.]; [France]; Antibes; [no habitat data]; 6.iii.1874; [no slides]; ex herb. Thuret – Bornet [PC]; [no pfa]; [Note: box marked '*Goniolithon tortuosum* f. *cristata*']; **TRH A5-259.**

[Anon.]; France; Antibes; [no habitat data]; 1874; [no slides]; comm. Farlow, number XXVIII; pfa: Printz 1929, pl. 56, fig. 2; [no notes]; **TRH A5-260.**

[Anon.]; [Italy]; Golfo di Napoli [Gulf of Naples]; [no habitat data]; [no date]; [no slides]; comm. Zool. Station [Gulf of Naples]; pfa: Printz 1929, pl. 56, fig. 1; [no notes]; **TRH A5-261.**

tortuosum, *Lithophyllum* (f. *decumbens*) [originally described as *Goniolithon tortuosum* f. *decumbens* (Foslie 1898c: 14) but subsequently (Foslie 1900i: 20) transferred into *Lithophyllum* as *L. tortuosum* f. *decumbens*, but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 20 under species without mention of forma]. **Holotype:** TRH, A5-262 (see below).

Debray; [Algeria]; St. Eugène près Algier [= near Algiers]; [no habitat data]; ii.1888; [no slides]; Debray collection number 95; pfa: Printz 1929, pl. 56, fig. 10; [Note: **Holotype** of

Goniolithon tortuosum f. *decumbens*. Additional data — Woelkerling 1993: 70]; **TRH A5-262**.

Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; 'récolte a la main [= gathered by hand]'; 5.i.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'fere [= nearly] f. *decumbens*']; **TRH A5-263**.

Case A, Drawer 6

During the present study, some loose notes were found that could not be linked to any particular collection. These now have been placed in an envelope labelled 'Loose notes found in Drawer A6'.

acrocampium, *Lithophyllum* [originally described as *Lithophyllum acrocampium* (Heydrich 1902: 474), but subsequently (Foslie 1909b: 18) treated as a heterotypic synonym of *Lithophyllum incrassatum*. Name not updated on collection in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 299).

Ferlus; Madagascar; Fort Dauphin; [no habitat data]; [no date]; slides 850-851; Mus. d'h. nat. Paris [**PC**]; pfa: Printz 1929, pl. 57, fig. 14; [Note: **Holotype fragments** of *Lithophyllum acrocampium* Heydrich. Additional data — Woelkerling 1993: 16 and Woelkerling 1998c: 299, fig. 145, who clarified the holotype status of the material]; **TRH A6-264**.

grumosum, *Lithophyllum* [originally described as *Lithothamnion grumosum* (Foslie 1897b: 8) but subsequently (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum*, where Foslie retained it in publication]. **Lectotype: TRH**, A6-266 (see below).

Hemphill; [United States]; California, San Diego; [no habitat data]; [no date]; slide 9; 'ded. [= given by] Farlow 1889', ex herb. Thuret – Bornet [**PC**] 1898; pfa: Printz 1929, pl. 57, fig. 12; [Note: Adey & Lebednik 1967: 21 mistakenly list 'Farlow' as the collector and '1899' as the collection date. Farlow gave material to Bornet who in turn sent some to Foslie. Remainder of collection is in **PC** (see Lemoine 1912: LIX)]; **TRH A6-265**.

Setchell; [United States]; California, Pacific Grove; in low pools; i.1897; slide 13; Setchell collection number 1594; pfa: Printz 1929, pl. 57, fig. 11; [Note: **Lectotype** of *Lithothamnion grumosum* Foslie. Additional data — Woelkerling 1993: 112. Box marked '*Lithoph. grumosum* (og [= and] *Lithoth. californ.*)']; **TRH A6-266**.

Setchell; [United States]; California, San Pedro; in tide pools; xii.1895; slide 14; Setchell collection numbers 1497 + 1497a; [no pfa]; [no notes]; **TRH A6-267**.

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; [no date]; slide 645; comm. F.S. Collins 1901, number 7; [no pfa]; [Note: grouped with A6-269 under one entry in Adey & Lebednik 1967: 21, who mistakenly list the collector as 'Collins' and the collection date as '1909']; **TRH A6-268**.

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; [no date]; slide 645; comm. F.S. Collins 1901, number 7; [no pfa]; [Note: grouped with A6-269 under one entry in Adey & Lebednik 1967: 21, who mistakenly list the collector as 'Collins' and the collection date as '1909']; **TRH A6-269**.

Yendo; Japan; Pacific coast of middle Japan, Province of Awa; [no habitat data]; 1899; [no slides]; Yendo collection number 133; [no pfa]; [Note: box marked '?*L. grumosum*?' and 'The mammalian brain']; **TRH A6-270**.

incrassatum, Lithophyllum [originally described as *Lithophyllum incrustans* f. *incrassata* (Foslie 1900a: 29) but subsequently (Foslie 1909b: 18) raised to the rank of species, namely *Lithophyllum incrassatum*, where Foslie retained it in publication]. **Holotype:** TRH, A6-271 (see below).

[Anon.]; [South Africa]; Kap d. Gode Haab [= Cape of Good Hope], Grahamstown; [no habitat data]; v.1899; slide 347; comm. [H.F.] Becker; pfa: Printz 1929, pl. 57, fig. 13; [Note: **Holotype** of *Lithophyllum incrustans* f. *incrassata* Foslie. Additional data — Woelkerling 1993: 124, and Chamberlain 1996: 208. Adey & Lebednik 1967: 21 mistakenly list 'Becker' as the collector. Box marked '*Lithoph. incrustans* f. *incrassata*' and 'præp. 347 af største ekspl. [= slide 347 of largest specimen]']; **TRH A6-271.**

Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slide 40; [Jadin collection number] 555c; pfa: Printz 1929, pl. 57, fig. 16; [Note: grouped with A6-273 and A6-274 under one entry in Adey & Lebednik 1967: 21, who mistakenly list the collector as 'Jodin']; **TRH A6-272.**

Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slide 41; [Jadin collection number 558]; pfa: Printz 1929, pl. 57, fig. 15; [Note: grouped with A6-272 and A6-274 under one entry in Adey & Lebednik 1967: 21, who mistakenly list the collector as 'Jodin']; **TRH collection number: A6-273.**

Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slide 36; [Jadin collection number] 557; [no pfa]; [Note: box marked '*Lithoph. incrassatum* (?)'. Grouped with A6-272 and A6-273 under one entry in Adey & Lebednik 1967: 21, who mistakenly list the collector as 'Jodin']; **TRH A6-274.**

***incrustans, Lithophyllum* (f. *incrassata*).** See listing above for *incrassatum, Lithophyllum*.

intermedium, Lithophyllum [originally described as *Lithophyllum intermedium* (Foslie 1906b: 23), where Foslie retained it in publication]. **Lectotype:** TRH, A6-275 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Cruxbay [= Cruz Bay]; 'i fjæren [= in the tidal zone]'; 24.iii.1906 [but see Note]; slides 1218-1219, 1256; Børgesen collection number 2196; pfa: Printz 1929, pl. 57, figs 7-8; [Note: **Lectotype** of *Lithophyllum intermedium* Foslie. Additional data — Woelkerling 1993: 129. Box marked '(med [= with] *Gon. not. & L. decip. f. caribaea*)'. Slides 1218 & 1219 dated '24.iii.1906' but slide 1256 dated '6.iii.1906']; **TRH A6-275.**

Howe; Jamaica; Fort Clarence, near Kingston; at low water mark under shelving rocks; 21.xii.1906; slides 1397-1398; [Howe collection number] 4648; pfa: Printz 1929, pl. 57, fig. 10; [Note: 'New York Botanical Garden' [NY] printed on box label. Habitat data in box on Howe annotation slip. Same slip has locality, Howe collection number and is marked 'dull brownish-red when living']; **TRH A6-276.**

Howe; Jamaica; Fort Clarence near Kingston; near low water mark; 21.xii.1906; slides 1392, 1422; [Howe collection number] 4642; [no pfa]; [Note: box marked '*Lithophyllum pæchydermum* Fosl. *intermedium*' and 'Synes nærme sig [= appears to be grading into] *L. daedaleum*!'. 'New York Botanical Garden' [NY] printed on box label]; **TRH A6-277.**

Howe; Jamaica; near Kingston; [no habitat data]; 21.xii.1906; slide 1395; [Howe collection number] 4647b; [no pfa]; [Note: box marked 'N.Y.B.G. nr. 4647b' [NY] and 'b [= 4647b] *Lithoph. intermedium*' and '(delvis over [= partly over] a [= collection 4647a] *L. caribaeum*)'. Howe 4647a is filed under *Lithophyllum caribaeum* in Drawer A1 (A1-17)]; **TRH A6-278.**

Howe; Jamaica; Lime Cay near Kingston; on fragment of coral; 16.xii.1906; [no slides]; nr. 4449 [Howe collection number]; [no pfa]; [Note: box marked 'N.Y.B.G.' [NY] and '*Lithoph. intermedium?*']; **TRH A6-279.**

Howe; Puerto Rico; San Juan; harbour, on rocks at low tide mark; 5.vi.1903; one slide labelled with Howe collection number 2346; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '*Lithoph. discoideum* f.? *intermedium*?']; **TRH A6-280.**

Lassen; Barbados (see Note); [no other locality data]; [no habitat data]; ii.1891; slide 682; comm. F. Børgesen; [no pfa]; [Note: locality on box written 'Vestindien Barbados'. Barbados is part of the Lesser Antilles, one of the three island groups comprising the West Indies, along with the Greater Antilles and the Bahamas. Originally identified as *L. incrustans*, and originally mixed with material of *Goniolithon notarisii* f. *propinqua*, the latter now housed in Drawer A11 (A11-587). Adey & Lebednik 1967: 21 mistakenly list the collector as 'Børgesen']; **TRH A6-281.**

Pease & Butler; Jamaica; [no other locality data]; [no habitat data]; vii.1900; slide 509; comm. F.S. Collins in 1900; [no pfa]; [Note: box annotated with the names '*Lithoph. incrustans*, *Lithothamnion daedaleum*?' and '*interm.*?']; **TRH A6-282.**

[Wurdemann]; [United States]; Florida; [no habitat data]; [no date]; slide 498; Exp. Wærdemann, herb. Farlow [FH], number XXV 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. crassum*' and '(*L. incrustans*? Det. M.F. [= Foslie] 1900) = *Lithoph. intermedium* (x s. med [= mixed with] *Lithoth. floridanum*)'. This collection originally was part of the type collection of *Lithothamnion floridanum*, now housed in Drawer C16 (C16-3258). Name of collector taken from C16-3258]; **TRH A6-283.**

orbiculatum, Lithophyllum [originally described as *Lithothamnion orbiculatum* (Foslie 1895a: 171), but subsequently (Foslie in Setchell & Gardner 1903: 358) transferred into *Lithophyllum*, reduced to the rank of form and treated as *Lithophyllum incrustans* f. *orbicularis* (an orthographic variant for *orbiculata* — see synonymy in Foslie 1905c: 112), and finally (Foslie 1905c: 112) re-elevated to species rank as *Lithophyllum orbiculatum*. Foslie filed all collections with above names under *Lithophyllum orbiculatum* in his herbarium]. **Lectotype: TRH, A6-285** (see below).

Batters; [United Kingdom]; Scotland, Arran; [no habitat data]; viii.1891; slide 250; comm. Batters; pfa: Printz 1929, pl. 57, fig. 5; [no notes]; **TRH A6-310.**

Ekman; [Norway]; Kristiansund; [no habitat data]; [no date]; slide 207; ex herb. Aresch. Riksmus. Stockholm [S]; pfa: Foslie 1895a, pl. 22, fig. 10; [Note: **Lectotype** of *Lithothamnion orbiculatum* Foslie. Additional data — Chamberlain, Irvine & Waker 1991: 150, and Woelkerling 1993: 164 (who mistakenly lists collector as 'Eckman'). Box marked 'største stk. af ekspl. tilbagesendt Riksmus. Stholm [= largest piece of specimen returned to Riksmuseum Stockholm (S)]'. No collection date is on box, but protologue indicates sample was collected in 1855. Collection includes annotation slip from M. Lemoine dated 'iii.1984' that reads: 'the anatomy of this specimen is not like that of "*Lpm. orbiculatum*" as described by Adey 1966 (Hydrobiologia XXVII). Foslie's plant is more like *Lpm. incrustans* Philippi']; **TRH A6-285.**

Foslie; [Norway]; Bjugn fjorden, Gyltskjæret [now Gyltingskjera]; [no habitat data]; 5.viii.1908; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 57, fig. 4; [Note: grouped with A6-287 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-286.**

Foslie; [Norway]; Bjugn fjorden, Gyltskjæret [now Gyltingskjera]; collection depth: 8-10 fathoms; 5.viii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'største af ekspl. i papir med konc. [= largest specimen in paper (packed in paper) with conceptacles]'. Grouped with A6-286 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-287.**

Foslie; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund; 'midtre ell. øvre lit. reg., udsat sted [= middle or upper littoral region, exposed place]'; 20.vii.1902; slide 890; [no other collection data]; [no pfa]; [no notes]; **TRH A6-311.**

Foslie; [Norway]; Kristianiafjorden [now Oslofjorden], Langøgrunden [now Langgrunnen] mell. [= between] Hurumlandet og [= and] Mølen; collection depth: 6-10 fathoms;

- 13.viii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. med [= mixed with] *L. granii*, *L. laeve*, *L. sonderi*']; **TRH A6-288.**
- Foslie; [Norway]; Thjemsfj. [= Trondheimsfjorden], holmerne udenfor [= the islets outside] Fløan; collection depth: 5-8 fathoms; 10.viii.1896; '= præp. 323' [but see Note]; [no other collection data]; pfa: Printz 1929, pl. 57, fig. 2; [Note: box label written by Printz who presumably separated this specimen from A6-290 for photographing. Slide 323 is with now with A6-290. Grouped with A6-290 under one entry in Adey & Lebednik 1967: 21. Additional material with same collector, species name, locality and date occurs in ancillary herbarium (see Chapter 5). Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH A6-289.**
- [Foslie]; [Norway]; Trondhjemfjorden, holmerne udenfor [= the islets outside] Fløan; collection depth: 2-15 (5-8) fathoms; 10.viii.1896; slide 323; [no other collection data]; [no pfa]; [Note: box label written by Foslie. Presumably, A6-290 originally included specimen now numbered A6-289 (presumably separated out by Printz for photographing). Box A6-290 marked '*Lithoph. orbiculatum*' with '*Cl. circumscriptum* f. *clavescens*' heavily crossed out, but slide labelled '*Clathromorph. circumscriptum* f. *clavescens*'. Box also marked 'cyst. konc. [= cystocarpic conceptacles]' and 'Dbl. i gangsk. [= duplicates in corridor cabinet]'. Collection includes small box (lid marked '323') with fragments used to prepare slide. Grouped with A6-289 under one entry in Adey & Lebednik 1967: 21. Additional material with same collector, species name, locality and date occurs in ancillary herbarium (see Chapter 5). Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH A6-290.**
- Foslie; [Norway]; Thjemfj. [= Trondheimsfjorden], Frøsetskjær [now Frøsetskjeret] (Byneset); collection depth: 5-6 fathoms; 31.v.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'delvis [= in part] *Lithoph. orbiculatum*' with another name heavily crossed out and 'ingen sp. [= without sporangia]']; **TRH A6-291.**
- Foslie; [Norway]; Thjemfj. [= Trondheimsfjorden], Munkholmen; collection depth: 2-5 fathoms; x.1892; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A6-292.**
- Foslie; [Norway]; Thjemfj. [= Trondheimsfjorden], Røberg [now Raudberget]; [no habitat data]; 1.viii.1894; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 57, fig. 3; [Note: probably part of the same gathering as A6-294 with which it was grouped under one entry in Adey & Lebednik 1967: 21]; **TRH A6-293.**
- [Foslie]; [Norway]; Thjemfj. [= Trondheimsfjorden], Røberg [now Raudberget]; [no habitat data]; 1.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'ingen sp. [= without sporangia]'. Probably part of the same gathering as A6-293 with which it was grouped under one entry in Adey & Lebednik 1967: 21. Foslie not listed as collector on box]; **TRH A6-294.**
- Foslie; [Norway]; Thjemfj. [= Trondheimsfjorden], Tautra (Gargrunden [now Gardsgrunnen]); collection depth: 8-10 fathoms; 15.vi.1894; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A6-295.**
- Foslie; [Norway]; Tusteren [now Tustna] ved [= near] Kristiansund, Skjælsund [a strait north of Linvågen]; collection depth: 0.5-2 fathoms; 10.viii.1898; slides 284, 891 [but see Note]; [no other collection data]; pfa: Printz 1929, pl. 57, fig. 1; [Note: slide 284 missing and slide 891 filed with A6-298. Slide 891 cited on the box lids of A6-296, A6-298 and A6-299. Grouped with A6-297, A6-298 and A6-299 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-296.**
- [Foslie]; [Norway]; Tusteren [now Tustna] ved [= near] Kristiansund, Skjælsund [a strait north of Linvågen]; collection depth: 0.5-2 fathoms; 10.viii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. konc. fotogr. [= sporangial conceptacles photographed]'. Grouped with A6-296, A6-298 and A6-299 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-297.**
- [Foslie]; [Norway]; Kristiansund, Tusteren [now Tustna]; [no habitat data]; 10.viii.1898; slide 891; [no other collection data]; [no pfa]; [Note: box marked 'cyst. konc. fotogr. [= cystocarpic conceptacles photographed]'. Slide 891 is cited on the box lids of A6-296, A6-298

- and A6-299. Grouped with A6-296, A6-297, and A6-299 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-298.**
- Foslie; [Norway]; Tusteren [now Tustna] ved [= near] Kristiansund, Skjælsund [a strait north of Linvågen]; collection depth: 0.5-2 fathoms; 10.viii.1898; slides 249, 891 [but see Note]; [no other collection data]; [no pfa]; [Note: slide 249 missing & slide 891 filed with A6-298. Slide 891 is cited on the box lids of A6-296, A6-298 and A6-299. Collection also contains a small box marked '249' and '*L. incrustans* (f. *orbiculata*). A6-299 grouped with A6-296, A6-297 and A6-298 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-299.**
- Holmes; [United Kingdom]; [England], Robin Hoods Bay; [no habitat data]; viii.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. incrustans* f. *orbiculatum*']; **TRH A6-300.**
- Holmes.; [United Kingdom]; [England], Yorkshire, Robin Hoods Bay; [no habitat data]; viii.1902; [no slides]; comm. viii.1905; [no pfa]; [Note: box marked ' "confluent var." ']. Grouped with A6-303 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-302.**
- Holmes; [United Kingdom]; England, Yorkshire, Robin Hoods Bay; [no habitat data]; viii.1902; [no slides]; comm. viii.1905; [no pfa]; [Note: grouped with A6-302 under one entry in Adey & Lebednik 1967: 21]; **TRH A6-303.**
- Norum; [Norway]; Thjemfjorden [= Trondheimsfjorden], Vaggan i Beitstadfjorden; collection depth: 10-15 metres; 29.vi.-4.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. orbiculatum?*'. Adey & Lebednik 1967: 21 mistakenly list collector as 'Norman']; **TRH A6-305.**
- Rosenvinge; Denmark; Groves Flak; collection depth: 13 fathoms; 12.v.1893; slide 272; Rosenvinge collection number 3432, Bot. Mus. Kbhavn [Copenhagen], [C]; [no pfa]; [Note: box marked '*Lithoph. orbiculatum* forma']; **TRH A6-306.**
- Rosenvinge; [Denmark]; NW for [= of] Læsø, vest for nordre [= west of northern] Rønners Rev; collection depth: 2-3 fathoms; 27.ix.1894; [no slides]; Rosenvinge collection number 5341, Bot. Mus. Kbhavn [Copenhagen], [C]; [no pfa]; [Note: box marked '*Lithoph. orbiculatum* forma']; **TRH A6-307.**
- Rosenvinge; [Denmark]; Sydl. [= Southern] Kattegat, 56°11½'N.B. 12°6'W; collection depth: 12 fathoms; 8.v.1893; [no slides]; Rosenvinge collection number 3316; [no pfa]; [Note: box marked 'Algae marinae Danicae' and '(s. med unge skorper antagelig af [= mixed with young crusts probably of] *L. glaciale*)' and '*Lithoph. orbiculatum* forma']; **TRH A6-308.**
- Vilke; [Norway]; Algerøen [now Algrøna] udenfor [= outside] Bergen; [no habitat data]; 2.vii.1897; slide 892; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 21 mistakenly list 'Vickers' as the collector]; **TRH A6-309.**
- [Anon.]; [Norway]; Thjem. [= Trondheim], Munkholmen; collection depth: ca 10 fathoms; 12.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'bsp. konc. [= bisporangial conceptacles]']; **TRH A6-312.**
- [Anon.]; [United Kingdom]; England, Robin Hoods Bay; [no habitat data]; [no date]; slide 687; ex herb E.M. Holmes [BM, not BIRM as indicated by Stafleu & Cowan 1979: 260], 1901; [no pfa]; [Note: box marked ' "*L. circumscr.?*" ' and '= *L. incrustans*' and '*orbic.?*']; **TRH A6-301.**
- [Anon.]; [United Kingdom]; England, south coast; rock pools; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 8, ex herb. Kew Gardens [K]; [no pfa]; [Note: annotation slip in box marked '*L. orbiculatum?* steril [= sterile]'. Adey & Lebednik 1967: 21 list 'Cotton' as the collector and 'xi.1905' as the collection date. A letter from Cotton to Foslie dated '7.xi.1905', however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at K are now housed at BM]; **TRH A6-284.**
- [Anon.]; [United Kingdom]; Vestk. [= west coast] Scotland, Ayrshire, saltcoast; [no habitat data]; viii.1891; [no slides]; comm. Holmes 1899; [no pfa]; [no notes]; **TRH A6-304.**

punctatum, *Lithophyllum* [originally described as *Lithophyllum punctatum* (Foslie 1906a: 22), where Foslie retained it in publication]. **Holotype:** TRH, A6-314 (see below).

Svedelius; Ceylon [now Sri Lanka]; Galle; littoral; 5.ii.1903; slide 973; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. punctatum?*']; **TRH A6-313.**

Svedelius; Ceylon [now Sri Lanka]; Trincomalie; collection depth: ca 1 metre; 17.iv.1903; slide 971; [no other collection data]; pfa: Printz 1929, pl. 57, fig. 17; [Note: **Holotype** of *Lithophyllum punctatum* Foslie. Additional data — Woelkerling 1993: 184. Box marked '*Lithoph. punctatum* nær [= close to] *incrassatum?*' and 'Præp. 971 af mindste ekspl. [= slide 971 of smallest specimen]'. Collection includes small box marked '*L. punctatum*' and 'konc. foto [= conceptacles photographed]']; **TRH A6-314.**

whidbeyense, *Lithophyllum* [originally described as *Lithophyllum whidbeyense* (Foslie 1906a: 21), but not mentioned in Foslie's subsequent publications]. **Lectotype:** TRH, A6-315 (see below).

Setchell & Gardner; Amerika [= America] [meaning United States]; Washington, Whidbey Island; [no habitat data]; 1901; slides 802-803; Algae of Puget Sound, number 655; pfa: Printz 1929, pl. 57, fig. 9; [Note: **Lectotype** of *Lithophyllum whidbeyense* Foslie. Additional data — Woelkerling 1993: 237. Box marked '*Lithoph. whidbeyense* delvis [= partly] (et ekspl. overf. til [= one specimen is transferred to] *L. vancouveriense*)'. Relevant collection of *L. vancouveriense* is A3-152. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH A6-315.**

Setchell & Gardner; Amerika [= America] [meaning United States]; Washington State, west coast of Whidbey Island; [no habitat data]; 1901; slides 806-807; Algae of Puget Sound, number 656; [no pfa]; [Note: box marked '*Lithoph. whidbeyense* delvis [= in part]'. Annotation slip in box contains locality data and is also marked 'Washing lou (?)']; **TRH A6-316.**

yessoense, *Lithophyllum* [originally described as *Lithophyllum yessoense* (Foslie 1909b: 17) in the year of Foslie's death]. **Holotype:** TRH, A6-317 (see below).

Miyabe; Japan; Shiribeshi Prov, Yoichi, Yezo [now Hokkaido Island], on the Japan sea coast; warm current region; viii.1895; slide 387; comm. by Prof. K. Miyabe, number 6; [no pfa]; [Note: **Holotype** of *Lithophyllum yessoense* Foslie. Additional data — Woelkerling 1993: 238. Box marked '~~*Lithoph. incrustans?*~~ *Lithoph. yessoense*'. Annotation slip in box suggests that Miyabe collected the specimen]; **TRH A6-317.**

Case A, Drawer 7

During the present study, one loose note was found that could not be linked to any particular collection. The note now has been placed in an envelope labelled 'Loose note found in Drawer A7'. Two loose photos also were found and have been placed in an envelope marked 'Loose photos found in Drawer A7'.

depressum, *Lithothamnion*. See listing below and in Drawer B8 under *incrustans, Lithophyllum* (f. *depressa*).

incrustans, *Lithophyllum* [originally described as *Lithophyllum incrustans* (Philippi 1837: 388). Subsequently transferred without change in rank into *Melobesia* (Endlicher 1843:

49), then into *Spongites* (Kützing 1849: 698), and then (Foslie 1895a: 122) into *Lithothamnion*, but later (Foslie 1899c: 17) transferred back into *Lithophyllum*, where Foslie retained it in publication. Additional collections are in Drawer A8]. **Holotype: L**, 943.10-34 (in part) (Woelkerling & Verheij 1995: 58).

- Batters; [United Kingdom]; [England], Berwick-upon-Tweed; [no habitat data]; 27.ii.1889; slide 246; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. incrustans?*' with the specific epithet '*orbicul.?*' crossed out. Collection includes two fragments in a small round box marked '246' found in Drawer C25 during the present study. Annotation slip in this box marked 'Æske 246 fandtes blandt *L. crouanii* tilh. vel *Ph. laevig.* men hvor præp.? [= box 246 was found among *L. crouanii* belongs maybe to *Ph. laevig.* but where is the slide?']; **TRH A7-318.**
- Bohlin; Azorerne [= Azores]; St. Miguel, Ponta Delgada; [no habitat data]; 20.vii.1898; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A7-321.**
- Bornet; [France]; Le Croisic; [no habitat data]; 15.iv.1877; [no slides]; ex Herb. Kjellman [UPS]; [no pfa]; [no notes]; **TRH A7-322.**
- Bové; Mari Mediterr. [= the Mediterranean], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; slide 1655; [comm. from] Herb. Mus. Paris [PC] (vi.1908); [no pfa]; [Note: box marked '*Melobesia (Spongites)* in mari mediterr. circa Bone' [or possibly Boue or Bove] and '*L. expansum incrustans (?)*'. Adey & Lebednik 1967: 22 did not list the collector or locality but listed the comm. date as if it were the collection date]; **TRH A7-323.**
- Børgesen; Færøerne [= Faeroe Islands]; Suderø, Kvalbø; 'paa [= on] *L. polymorphum*'; 13.vii.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A7-324.**
- Chalon; Frankrige [= France]; Arotcha; [no habitat data]; v.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A7-325.**
- Chalon; France; Frankrigs Atlanterhavskyst [= the Atlantic Ocean of France], (Finistère?); [no habitat data]; summer 1904; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Obs. *retusum* lign. form! [= observed form similar to *retusum*!']. The epithet '*retusum*' probably refers to *Lithophyllum retusum* (collections in Drawer A23)]; **TRH A7-326.**
- Debray; [France]; Finistère; [no habitat data]; [no date]; [no slides]; Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], no. 14; [no pfa]; [Note: box marked '*L. polymorphum* = *L. incrustans*' and 'Debr. 1-19'. Grouped with A7-329 and A7-330 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-328.**
- Debray; [France]; Finistère; [no habitat data]; [no date]; slide 47; [Herb.] Debray [AL, according to Stafleu & Mennega 1998: 130], collection number 61; [no pfa]; [Note: the Debray number 61 also appears on A7-330. Grouped with A7-328 and A7-330 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-329.**
- Debray; [France]; Finistère, [Îles de] Glénans; [no habitat data]; [no date]; [no slides]; [Herb.] Debray [AL, according to Stafleu & Mennega 1998: 130], collection numbers 54, 61-64, 66, 68, 70, 82; [no pfa]; [Note: the Debray number 61 also appears on the previous collection (A7-329). Debray specimen 54 is fastened to an annotation slip and identified as *L. incrustans* f. *depressa*. It has been removed from this box and listed as a separate collection with the number A7-72 (see entry after A7-373 below under *L. incrustans* f. *depressa*). A7-330 grouped with A7-328 and A7-329 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-330.**
- Flahault; [France]; (Bretagne [= Brittany]), Le Bourg de Batz; [no habitat data]; [10.ix.1891]; [no slides]; Herb. C. Flahault [MPU, according to Stafleu & Cowan 1976: 843], collection number 191^{1/2}; [no pfa]; [Note: box marked '*L. polymorphum* Aresch. = *L. incrustans*' and with the collection numbers '191, 232, 252, 254-256, 261, 277'. Collection date is on annotation slip in box]; **TRH A7-331.**
- Johnson, T. & Foslie; Irland [= Republic of Ireland]; Dalkey Sound; collection depth: 3-4 fathoms; 13.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. in-*

- crustans* (& *L. sonderi*). Relevant collection of *L. sonderi* is B15-2396. Annotation slip in box marked 'Enp. konc.? [= uniporate (enporede) conceptacles?]. Collection found during the present study in Drawer C24, and grouped there with a collection of *Phymatolithon polymorphum* (C24-3679) under one entry in Adey & Lebednik 1967: 90]; **TRH A7-3680.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dog's – Gorteen Bay; [no habitat data]; 14.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A7-333 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-332.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dog's – Gorteen Bay; [no habitat data]; 14.iv.1899; slide 1154; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. incrustans* eller [= or] *orbiculatum?*' and 'lidet ekspl. typisk *incrust.* [= small specimen a typical *incrustans*]' and 'Præp. 1154 af største [= slide 1154 of the largest]'. Grouped with A7-332 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-333.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dog's – Gorteen Bay; [no habitat data]; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'delvis fr. *angul.* [= partly forma *angulata*]]. Grouped with A7-377 (dated 18-20.iv.1899 and marked '*Lithoph. incrustans* f. *harveyi*') under one entry in Adey & Lebednik 1967: 22]; **TRH A7-334.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dog's – Gorteen Bay; [no habitat data]; 20.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped under one entry in Adey & Lebednik 1967: 22 with A7-336 and with a collection of '*Lithoph. incrustans* f. *depressa*' (A7-374)]; **TRH A7-335.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 20.iv.1899; slide 1155; [no other collection data]; [no pfa]; [Note: box marked 'Præp. 1155 af løse lille stk. [= slide 1155 of small, loose piece]'. Grouped under one entry in Adey & Lebednik 1967: 22 with A7-335 and a collection of '*Lithoph. incrustans* f. *depressa*' (A7-374)]; **TRH A7-336.**
- Hanna; Irland [= Republic of Ireland]; Fahy Bay; [no habitat data]; [no date]; [no slides]; ex herb. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1901; [no pfa]; [Note: box marked '(Fahey Bay, Irland leg. Hanna?)' and '*Lithoph. incrustans* f.']; **TRH A7-337.**
- Hanna; Irland [= Republic of Ireland]; Fahy Bay, Ballynakill, Connemara; collection depth: 1-1½ fathoms; 22.viii.1899; slide 327; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. incrustans* f.']; **TRH A7-338.**
- Holmes; [United Kingdom]; England, Swanage; [no habitat data]; ix.1896; [no slides]; ex herb. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1899 [written on annotation slip in box]; [no pfa]; [no notes]; **TRH A7-339.**
- Holmes; [United Kingdom]; England, Weymouth; [no habitat data]; 18.ii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A7-340.**
- Johnson, T.; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; ix. 1893; [no slides]; ex herb. Science & Art Museum, Dublin [**DBN**], no. 50 'delvis [= in part]' and 61, 62, 64, 74, 74"; [no pfa]; [Note: box also marked 'dels [= partly] Roundstone ix.1893 T. Johnson, dels [= partly] Harlequin iv.1891, dels uten lok. [= partly without locality]' suggesting that a mixture of two or more collections is present. One specimen marked 'Harlequin 4.91' (also see Note to A7-342). Adey & Lebednik 1967: 22 do not list 'Johnson' as collector and mistakenly indicate that a specimen is figured in 'Printz 1929, pl. 58, fig. 8']; **TRH A7-341.**
- Johnson, T.; [Republic of Ireland]; Roundstone; [no habitat data]; ix.1899 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst. konc. fotogr. [= cystocarpic conceptacles photographed]' and 'ekspl. paa skjæl [= specimen on shell]'. One of the two specimens in the box is marked 'Harlequin 4.91', suggesting that a mixture of two different collections is present (also see Note to A7-341). Grouped in Adey & Lebednik 1967: 22 under one entry with a collection of *Lithophyllum incrustans* f. *harveyi* (A7-378)]; **TRH A7-342.**

- Phillips; [United Kingdom]; North Wales, Bangor; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: grouped under one entry with A7-344 in Adey & Lebednik 1967: 22, who mistakenly place 'North Wales' in England]; **TRH A7-343.**
- Phillips; [United Kingdom]; North Wales, Bangor; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'delvis overv. af [= partly overgrown by] *Phym. polym.*'. Grouped under one entry with A7-343 in Adey & Lebednik 1967: 22, who mistakenly place 'North Wales' in England]; **TRH A7-344.**
- Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; 'litoral reg. [= littoral region]'; xii.1904-ii.1905; slide 1018; [no other collection data]; [no pfa]; [Note: box marked '~~*Lithoph. expansum*~~ = *L. incrustans* forma'. Grouped with A7-347 and A7-348 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-346.**
- Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; 'litoral reg. [= littoral region]'; xii.1904-ii.1905; slide 1020; [no other collection data]; [no pfa]; [Note: box marked '*L. incrustans* f.' with '*L. expansum* (?)' crossed out. Annotation slip in box marked 'Algues marines des Canaries'. Grouped with A7-346 and A7-348 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-347.**
- Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; littoral region; xii.1904-i.1905; slide 1022; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. incrustans* f.' and 'præp. [= slide] 1022 af største ekspl. [= of largest specimen]'. Grouped with A7-346 and A7-347 under one entry in Adey & Lebednik 1967: 22]; **TRH A7-348.**
- Sauvageau; [France]; (Basses Pyrénées), Guéthary; [no habitat data]; iii.-v.1898; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A7-349.**
- Sauvageau; [France]; Dep. de la Charente, Ile de Ré; [no habitat data]; iii.1900; [no slides]; comm. Bornet; [no pfa]; [Note: box marked 'obs. konc. [= conceptacles observed]' and 'm. notab.']; **TRH A7-350.**
- Sauvageau; Spain; Gijon; [no habitat data]; 16.ix.-5.x.1895; [no slides]; [no other collection data]; [no pfa]; [Note: includes printed annotation slip in box with precise dating information]; **TRH A7-351.**
- Sauvageau; Spain; La Corogne; [no habitat data]; 31.x.-6.xi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality and date data also printed on an annotation slip in box. Adey & Lebednik 1967: 23 mistakenly give locality as 'La Coronna']; **TRH A7-352.**
- Sauvageau; Spain; Rivadeo; [no habitat data]; 16.-21.x.1895; [no slides]; [no other collection data]; [no pfa]; [Note: precise date data given on printed annotation slip in box]; **TRH A7-353.**
- Sauvageau; Spain; San Vicente de la Barquera; [no habitat data]; ix.1895; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 23 give locality as 'San Vincent de la Barga']; **TRH A7-354.**
- Vickers; Kanariske øer [= Canary Islands]; Gran Canaria, Las Palmas, Confital; 'rocheres de Confital [= on rocks at Confital]'; [no date]; slide 27; comm. Bornet; [no pfa]; [Note: slide marked 'Herb. Thur. - Born.']; **[PC].** Habitat data given on annotation slip in box]; **TRH A7-356.**
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900 and 1901; [no slides]; comm. Vickers & comm. Sauvageau; [no pfa]; [Note: communication data on annotation slip in box. Grouped in Adey & Lebednik 1967: 22 under one entry with A7-358 and a collection labelled '*Lithoph. incrustans* f. *harveyi*' (A7-379)]; **TRH A7-357.**
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900 and 1901; [no slides]; [comm. Prof. Sauvageau, in part – see Note]; [no pfa]; [Note: collection appears to contain material gathered on two dates. Box marked 'Mørke ekspl. [= dark specimen] leg. A. Vickers 1900 comm. Prof. Sauvageau' and 'lys. [= light] coll. & comm. A. Vickers 1901']. Grouped in Adey & Lebednik 1967: 22 under one entry with A7-357 and a collection labelled '*Lithoph. incrustans* f. *harveyi*' (A7-379)]; **TRH A7-358.**
- Wright [probably Edward Perceval]; [Republic of] Ireland; Smerwick Bay Vestk. Irland [= west coast of (the Republic of) Ireland]; [no habitat data]; [no date]; [no slides]; [no other collec-

- tion data]; [no pfa]; [Note: box marked 'koncept.! [= conceptacles!]' and 'Brudst. af ekspl. [= fragment of specimen] Trin. Coll. Dublin' **[TCD]**]; **TRH A7-359.**
- [Anon.]; Frankrig [= France]; Finistère, Concarneau; [no habitat data]; [no date]; [no slides]; comm. Sauvageau, 1900; [no pfa]; [Note: box marked 'cyst. konc.? [= cystocarpic conceptacles?']'. Adey & Lebednik 1967: 22 mistakenly list the collector as 'Sauvageau' and the collection date as '1900']; **TRH A7-360.**
- [Anon.]; [France]; Guéthary; [no habitat data]; 9.vii.1868; [no slides]; ex herb. Thuret **[PC]**; [no pfa]; [Note: box marked '*L. polymorph.* = *L. incrust.*' and 'antheridia']; **TRH A7-361.**
- [Anon.]; [France]; Gallia occidentalis [= western France]; [no habitat data]; [no date]; [no slides]; [ex] Mus. Paris **[PC]**, [comm.] P. Hariot, iv.1907, number 3; [no pfa]; [Note: Adey & Lebednik 1967: 22 mistakenly list 'Hariot' as the collector and '1907' as the collection date but do not list the collection locality]; **TRH A7-362.**
- [Anon.]; [United Kingdom]; England, Devonshire; 'paa [= on] *Lithoth. lenormandii*'; [no date]; [no slides]; comm. from Royal Gardens, Kew **[K]** by A.D. Cotton (1906); [no pfa]; [Note: algal collections originally at **K** are now housed at **BM**. Adey & Lebednik 1967: 22 mistakenly list 'Cotton' as the collector and '1906' as the collection date]; **TRH A7-363.**
- [Anon.]; [United Kingdom]; England, Falmouth; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. expansum* Batt. = *Lithoph. incrustans*'. Grouped with A320 under one entry in Adey & Lebednik 1967: 22, who list 'Batters' as the collector]; **TRH A7-319.**
- [Anon.]; [United Kingdom]; [England], Falmouth; [no habitat data]; [no date]; [no slides]; ex herb. Batters [now in **BM**]; [no pfa]; [Note: box marked '*Lithoph. expansum* Batt. = *incrustans*?'. Grouped with A7-319 under one entry in Adey & Lebednik 1967: 22, who list 'Batters' as the collector]; **TRH A7-320.**
- [Anon.]; [United Kingdom]; England, south coast; rock pools; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 6, ex herb. Kew Gardens **[K]**, no.6; [no pfa]; [Note: Adey & Lebednik 1967: 22 list 'Cotton' as the collector and 'xi.1905' as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH A7-327.**
- [Anon.]; [United Kingdom]; Scotland, (vestk. [= west coast of]) Arran; [no habitat data]; 1889; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 22 mistakenly list the collection date as '1899']; **TRH A7-364.**
- [Anon.]; [United Kingdom]; [Scotland], Ayrshire, off Irvine; [no habitat data]; [no date]; one unnumbered slide; comm. Hannah Robertson, ii.1906; [no pfa]; [Note: box marked '*L. fasciculatum*' = *L. incrustans*' and 'Afh. præp. [= thesis slide]'. Adey & Lebednik 1967: 22 mistakenly list 'Robertson' as the collector and place 'Ayrshire' (now County Strathclyde) in England]; **TRH A7-345.**
- [Anon.]; [United Kingdom]; Scotland, Ayrshire, Portincross; [no habitat data]; viii.1898 and (1901); [no slides]; comm. E. M. Holmes; [no pfa]; [Note: one annotation slip in box is marked 'ex. herb. Holmes 1899' **[BM]**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], thereby apparently contradicting the 1901 date on the box cover. Another annotation slip is marked '*L. polymorphum* f. *valida* inl. Rathineves' (last word difficult to read). Adey & Lebednik 1967: 22 mistakenly list 'Holmes' as the collector]; **TRH A7-365.**
- [Anon.]; Irland [= Republic of Ireland]; River Liffey; [no habitat data]; [no date]; slide 1156; comm. O'Reilly, Dublin; [no pfa]; [Note: box marked 'fossil' and 'cfr. fotogr. O.R.'s afh. [= cf. photograph in O.R.'s thesis]'. Adey & Lebednik 1967: 23 mistakenly list the collector as 'Reilly']; **TRH A7-366.**
- [Anon.]; Mauritania; Cap Blanc; [no habitat data]; [no date]; [no slides]; comm. Hariot, iii.1908 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked '*L. incrustans* f.'. Grouped with A7-368, A7-369 and A7-370 under one entry in Adey & Lebednik 1967: 22, who mistakenly list the collector as 'Hariot' and the collection date as '1908']; **TRH A7-367.**

[Anon.]; Mauritania; Cap Blanc; [no habitat data]; [no date]; slide 1658; [ex] (Mus. Paris) **[PC]**, [comm.] Hariot, 1908, number 5; [no pfa]; [Note: grouped with A7-367, A7-369 and A7-370 under one entry in Adey & Lebednik 1967: 22, who mistakenly list the collector as 'Hariot' and the collection date as '1908']; **TRH A7-368.**

[Anon.]; Mauritania; Cap Blanc; [no habitat data]; [no date]; slide 1659; [ex] Herb. Mus. Paris **[PC]**, [comm.] Hariot, 1908, number 2; [no pfa]; [Note: box marked '*Lithoph. incrustans* forma'. Grouped with A7-367, A7-368 and A7-370 under one entry in Adey & Lebednik 1967: 22, who mistakenly list the collector as 'Hariot' and the collection date as '1908']; **TRH A7-369.**

[Anon.]; Mauritania; Cap Blanc; [no habitat data]; [no date]; slide 1660; [ex] Mus. Paris **[PC]**, [comm.] Hariot, 1908, number 3; [no pfa]; [Note: box marked '*Lithoph. expansum* f. *exigua* *incrustans*?'. Grouped with A7-367, A7-368 and A7-369 under one entry in Adey & Lebednik 1967: 22, who mistakenly list the collector as 'Hariot' and the collection date as '1908']; **TRH A7-370.**

[Anon.]; Spain; La Coruña; [no habitat data]; [no date]; [no slides]; comm. & det. Reinbold, 1909; [no pfa]; [Note: box marked 'brudst. af ekspl. [= fragment of specimen]'. Adey & Lebednik 1967: 23 mistakenly list the locality as 'LaCoronna' and the collecting date as '1909']; **TRH A7-371.**

incrustans, Lithophyllum (f. incrassata)

See listing in Drawer B6 under *incrassatum, Lithophyllum*.

incrustans, Lithophyllum (f. depressa) [originally described as *Lithothamnion depressum* (P.L. & H.M. Crouan 1867: 151) but subsequently (Foslie 1895a: 122) reduced to the rank of form and transferred to *Lithothamnion incrustans* as *Lithothamnion incrustans* f. *depressa*, and then (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum* as *Lithophyllum incrustans* f. *depressa*, where Foslie retained it in publication. Additional collections are in Drawer A8. Collections listed in Adey & Lebednik 1967: 22 under species without mention of forma]. **Lectotype: CO**, unnumbered (Chamberlain & Irvine 1994a: 79, Woelkerling 1998c: 340).

Chalon; [France]; Guéthary, Biarritz; [no habitat data]; v.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 1; [Note: grouped with A7-373 and a collection of *L. incrustans* f. *flabellata* (A7-375) under one entry in Adey & Lebednik 1967: 22]; **TRH A7-372.**

Chalon; [France]; Guéthary, Biarritz; [no habitat data]; v.1903; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A7-372 and a collection of *L. incrustans* f. *flabellata* (A7-375) under one entry in Adey & Lebednik 1967: 22]; **TRH A7-373.**

Debray; [France]; Seine Inférieure, Bruneval; [no habitat data]; x.1880; [no slides]; Debray collection number 54; [no pfa]; [Note: annotation slip (probably written by Foslie) with specimen provides collection data and also is marked with the names '*Lithothamnion polymorphum* Aesch.' (probably the name assigned by Debray) and '*L. incrust.* f. *depressa*'. This specimen was discovered in another box (A7-330) containing Debray material identified as '*Lithophyllum incrustans* (f. *incrustans*)' but has been removed during the present study and treated here as a separate collection]; **TRH A7-72.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 20.iv.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 3; [Note: grouped under one entry in Adey & Lebednik 1967: 22 with two collections marked '*Lithoph. incrustans*' (A7-335, A7-336)]; **TRH A7-374.**

incrustans, Lithophyllum (f. flabellata) [originally described as *Lithophyllum incrustans* f. *flabellata* (Heydrich 1899: 225) but subsequently treated by Foslie (1900a: 29) as a heterotypic synonym of *L. incrustans* f. *depressa*. The collection listed here, however, is labelled *L. incrustans* f. *flabellata* in Foslie's herbarium. Collection listed in Adey & Lebed-

nik 1967: 22 under species without mention of forma]. **Type:** apparently not designated, and original material probably destroyed (Stafleu & Cowan 1979: 187). There is no syn-type material in **TRH**.

Chalon; [France]; Guéthary, [Biarritz]; [no habitat data]; v.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 6; [Note: box marked 'største ekspl. [= largest specimen] f. *harveyi*'. Grouped with two collections of *L. incrustans* f. *depressa* (A7-372, A7-373) under one entry in Adey & Lebednik 1967: 22]; **TRH A7-375**.

incrustans, Lithophyllum (f. harveyi) [originally described as *Lithothamnion incrustans* f. *harveyi* (Foslie 1895a: 122) but subsequently (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum* as *L. incrustans* f. *harveyi*, where Foslie retained it in publication. Additional collections are in Drawer A8. Collections listed in Adey & Lebednik 1967: 22 under species without mention of forma]. **Lectotype:** **TRH**, A7-376 (see below).

Batters; [United Kingdom]; Scotland, Cumbrae; [no habitat data]; viii.1891; slides 32, 53 and 3 unnumbered slides; [no other collection data]; pfa: Foslie 1895a, pl. 18, figs 12-15; [Note: **Lectotype** of *Lithophyllum incrustans* f. *harveyi* Foslie. Additional data — Woelkerling 1993: 114. Box marked '*Melobesia polymorpha* Harv. non Aresch. = *Lithoph. incrustans* f. *harveyi*'; **TRH A7-376**.

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 18.-20.iv.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, figs 4-5; [Note: grouped under one entry in Adey & Lebednik 1967: 22 with a collection (A7-334) dated 18.iv.1899 and marked '*Lithoph. incrustans*'; **TRH A7-377**.

Johnson, T.; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; ix.1893; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 8; [Note: grouped in Adey & Lebednik 1967: 22 under one entry with a collection of *Lithophyllum incrustans* (A7-342)]; **TRH A7-378**.

Tellam; [United Kingdom]; England, Falmouth; [no habitat data]; 1879; [no slides]; comm. E. M. Holmes; [no pfa]; [Note: outside of box marked '*Lithoph. fasciculatum*' with no other taxon name. One annotation slip in box marked 'Falmouth 1879, Tellam, ~~*Melobesia polymorpha*~~ *L. fasciculatum*'. Another annotation slip written by Foslie is marked 'ex. Herb. Holmes *L. incr. f. harveyi*' **[BM, not BIRM as indicated by Stafleu & Cowan 1979: 260]**. Adey & Lebednik 1967: 22 mistakenly list collector as 'Tallan']; **TRH A7-355**.

Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 2; [Note: grouped in Adey & Lebednik 1967: 22 under one entry with two collections of *Lithophyllum incrustans* (A7-357, A7-358)]; **TRH A7-379**.

[Anon.]; Irland [= Republic of Ireland]; Clare Island; [no habitat data]; iv.1809 [?]; [no slides]; comm. A.D. Cotton; [no pfa]; [Note: collection consists of two unnumbered specimens, one specimen numbered '3' and one numbered '4'. Box marked '2. Weymouth England 5.1809' and '3-5. Clare Island 4.1809' and '“2 og [= and] 4 *L. orbicul.*?” = *L. incrustans* (4 f. *harveyi*)'. Specimens numbered 2 and 5 do not occur, and the collecting date 1809 seems unlikely]; **TRH A7-380**.

Case A, Drawer 8

depressum, Lithothamnion. See listing below and in Drawer B7 under ***incrustans, Lithophyllum (f. depressa)***.

incrustans, Lithophyllum [originally described as *Lithophyllum incrustans* (Philippi 1837: 388). Subsequently transferred without change in rank into *Melobesia* (Endlicher 1843:

49), then into *Spongites* (Kützing 1849: 698), and then (Foslie 1895a: 122) into *Lithothamnion*, but later (Foslie 1899c: 17) transferred back into *Lithophyllum*, where Foslie retained it in publication. Additional collections are in Drawer A7]. **Holotype:** L, 943.10-34 (in part) (Woelkerling & Verheij 1995: 58).

- Bové; Mari. Mediterr. [= the Mediterranean], [country uncertain]; [no other locality data]; on *Cyst. sedoides*; [no date]; [no slides]; ex herb. Mus. Paris **[PC]**; [no pfa]; [Note: box marked '*Melobesia* (*Spongites*) in *Cyst. sedoides* = *L. incrustans* forma?']; **TRH A8-383.**
- Chalon; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A8-386 and a collection of *L. incrustans* f. *harveyi* (A8-384) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-385.**
- Chalon; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A8-385 and a collection of *L. incrustans* f. *harveyi* (A8-384) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-386.**
- Debray; [Algeria]; Algier (Port) et [= and] St. Eugène; [no habitat data]; iii.1887; [no slides]; Herb. Debray **[AL]**, according to Stafleu & Mennega 1998: 130, collection number 16; [no pfa]; [Note: box marked '*L. polymorphum* = *L. incrustans* f.' and 'Debr. 1-19'. Annotation slip in box lists locality details and collection date. Grouped with seven other collections of *Lithophyllum incrustans* (A8-388, A8-389, A8-168, A8-419, A8-390, A8-391, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-387.**
- Debray; [Algeria]; Algier, St. Eugène; [no habitat data]; 10.vi.1894; [no slides]; Debray collection number 17; [no pfa]; [Note: box marked '*L. polymorphum* = *L. incrustans*'. Grouped with seven other collections of *Lithophyllum incrustans* (A8-387, A8-389, A8-168, A8-419, A8-390, A8-391, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-388.**
- Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; Debray collection numbers 25, 28, 29, 30, 31, 34, 35, 37, 59, 60, 73; [no pfa]; [Note: Debray collections 59 and 60 have been given separate **TRH** numbers (A8-168 & A8-419) because more detailed collection data are available. One annotation slip in box marked 'Algier, Debray 28, 30, 31, 35, 36, 38 og [= and] 39. *Lithoph. incrust.*' (Debray 36, 38, & 39 occur in separate boxes within the Foslie herbarium: A8-390, A8-391 & A8-392, respectively). Another annotation slip in box marked '73, 21.iv.1890, Dep. d'Algier Cap Malyon [???'], but no specimen within A8-389 bears the number 73. Collection A8-389 grouped under one entry in Adey & Lebednik (1967: 23) with seven other collections of *Lithophyllum incrustans* (A8-387, A8-388, A8-168, A8-419, A8-390, A8-391, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429)]; **TRH A8-389.**
- [Debray]; [Algeria]; Eipasa (Dep. d'Algier); [no habitat data]; 26.v.1890; [no slides]; Debray collection 60; [no pfa]; [Note: specimen originally formed part of A8-389 (including annotation slip with collection data) but separated here into a distinct collection because collection information differs. Grouped with a seven other collections of *Lithophyllum incrustans* (A8-387, A8-388, A8-389, A8-419, A8-390, A8-391, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-168.**
- [Debray]; [Algeria]; Port d'Algier; [no habitat data]; 1887; [no slides]; Debray collection 59; [no pfa]; [Note: specimen originally formed part of A8-389 (including annotation slip with collection data) but separated here into a distinct collection because collection information differs. Grouped with seven other collections of *Lithophyllum incrustans* (A8-387, A8-388, A8-389, A8-168, A8-390, A8-391, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-419.**
- Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; Debray collection number 36; [no pfa]; [Note: grouped with seven other collections of *Lithophyllum incrustans* (A8-

- 387, A8-388, A8-389, A8-168, A8-419, A8-391, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-390.**
- Debray; [Algeria]; Algier; [no habitat data]; [no date]; slides 30, 51; Debray collection number 38; [no pfa]; [Note: grouped with seven other collections of *Lithophyllum incrustans* (A8-387, A8-388, A8-389, A8-168, A8-419, A8-390, A8-392) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-391.**
- Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; Debray collection number 39; [no pfa]; [Note: grouped with seven other collections of *Lithophyllum incrustans* (A8-387, A8-388, A8-389, A8-168, A9-419, A8-390, A8-391) and a collection of *Lithophyllum incrustans* f. *harveyi* (A8-429) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-392.**
- Flahault; [France]; Banyuls-sur-Mer; [no habitat data]; ix.1893; [no slides, but see Note]; Flahault collection 254; [no pfa]; [Note: Flahault collection number 254 occurs on three boxes (A8-393, A8-394, A8-395) filed under *Lithophyllum incrustans*, and one box (A8-424), filed under *L. incrustans* f. *angulata*). Box lid marked 'præp. [= slide] 31 og [= and] 52', but slide 31 is in A8-394 and slide 52 is in A8-424. This suggests that material in A8-393 was used to prepare slides 31 & 52 and thus originated from A8-394 and A8-424. Box lid also marked 'anth. konc. [= antheridial conceptacles]' and 'fotogr. og nike snit [= photograph and unique cut]'. Grouped with A8-394 and with lectotype of *Lithophyllum incrustans* f. *angulata* (A8-424) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-393.**
- Flahault; [France]; Banyuls-sur-Mer (Roussillon); 'par 35 metres. de profondeur [= collection depth: 35 metres]'; ix.1893; slide 31; Flahault collection 254; [no pfa]; [Note: Flahault collection number 254 occurs on three boxes (A8-393, A8-394, A8-395) filed under *Lithophyllum incrustans*, and one box (A8-424), filed under *L. incrustans* f. *angulata*). Box lid marked 'præp. 31 af største [= slide 31 of largest]' and 'præp. 52 af mindste ekspl. [= slide 52 of smallest specimen]'. Slide 31 is present, but slide 52 is filed with the lectotype of *L. incrustans* f. *angulata*. Also see note under A8-393 for further information on slides. Grouped with A8-393 and with lectotype of *Lithophyllum incrustans* f. *angulata* (A8-424) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-394.**
- Flahault; [France]; Banyuls-sur-Mer (Roussillon); 'par 35 metres de profondeur [= collection depth: 35 metres]'; [no date]; [no slides]; Herb. Flahault [MPU, according to Stafleu & Cowan 1976: 843], Flahault collection 254; [no pfa]; [Note: Flahault collection number 254 occurs on three boxes (A8-393, A8-394, A8-395) filed under *Lithophyllum incrustans*, and one box (A8-424), filed under *L. incrustans* f. *angulata*). Collection includes eight specimens and apparently was not included in Adey & Lebednik 1967: 23 but almost certainly forms part of the same gathering as the preceding two collections (A8-393, A8-394)]; **TRH A8-395.**
- Flahault; [France]; au large du Cap Leyrefite près Banyuls-sur-Mer (Golfe du Lion) [= near Banyuls-sur-Mer (Golfe du Lion), off of Cape Leyrefite]; 'par 35 metres. de profondeur [= collection depth: 35 metres]'; 27.x.1893; [no slides]; Flahault collection 256a; [no pfa]; [Note: box marked '191, 232, 252, 254, 256, 261, 2777 [= 277]', referring to other Flahault collections presumably sent to Foslie. Collecting details are on annotation slip in box. Collection not included in Adey & Lebednik 1967. Flahault collection 256b is in Drawer B16 under *Lithothamnion philippii* (B16-2439)]; **TRH A8-396.**
- Gattefosse & Raphaélis; Maroc [= Morocco]; Dar bon Azza; [no habitat data]; vi.1929; [no slides]; 'fra [= from] Berl. Bot. Tauschver. [i.e. Berliner Botanischer Tauschverein = Berlin Botanical Exchange Society]', 1935; [no pfa]; [Note: listed in Adey & Lebednik 1967: 23, but placed in Foslie's herbarium after his death (1909) and thus never seen by Foslie]; **TRH A8-397.**
- Goltz di Carvalho; Portugal; Buarcos, près du Cap de Mondego [= near Cape Mondego]; [no habitat data]; [no date]; [no slides]; comm. Henriques, 18.v.1897; [no pfa]; [Note: precise

- communication date written on annotation slip in box. Grouped with A8-399 under one entry in Adey & Lebednik 1967: 23, who mistakenly list the collector as 'Henriques' and the collection date as '1897'; **TRH A8-398.**
- Goltz di Carvalho; Portugal; Buarcos, pres du Cap de Mondego [= near Cape Mondego]; [no habitat data]; [no date]; [no slides]; comm. Henriques, v.1897; [no pfa]; [Note: box marked '4 delte spor. [= 4-parted sporangia]'. Grouped with A8-398 under one entry in Adey & Lebednik 1967: 23, who mistakenly list the collector as 'Henriques' and the collection date as '1897']; **TRH A8-399.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; 30.v.1895; slide 635; [no other collection data]; [no pfa]; [Note: box marked 'paa [= on] *Gon. brassica-florida*']; **TRH A8-400.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; 30.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH A8-401.**
- Kuckuck; Marokko [= Morocco]; Tangier; collection depth: 15-20 or 17-33 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'nordl. M--- direction' [writing difficult to read] and 'nordlich der Stadt [= north of the city]'. Box also marked 'brudstk. af [= fragment of] f. *depressa-harveyi*'. Collection not included in Adey & Lebednik 1967]; **TRH A8-404.**
- Kuckuck; Marokko [= Morocco]; Tangier; collection depth: 15-20 or 17-33 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'nordl. M--- direction' [writing difficult to read] and 'nordlich der Stadt [= north of the city]'. Box also marked '*L. incrustans* (& *L. philippii*?) Anther.? [= antheridia?']'. Collection not included in Adey & Lebednik 1967]; **TRH A8-405.**
- Kuckuck; Marokko [= Morocco]; Tangier, Hafen von Tanger [= harbour of Tangiers]; '10-15 m tief [= collection depth: 10-15 metres deep]'; 25.iv.1901; slide 785; [no other collection data]; [no pfa]; [Note: box marked '*L. incrustans* f.'. Grouped with A8-403 under one entry in Adey & Lebednik 1967: 23]; **TRH A8-402.**
- Kuckuck; Marokko [= Morocco]; Tangier, Hafen von Tanger [= harbour of Tangiers]; '10-15 m tief [= collection depth: 10-15 metres deep]'; 25.iv.1901; slide 786; [no other collection data]; [no pfa]; [Note: grouped with A8-402 under one entry in Adey & Lebednik 1967: 23]; **TRH A8-403.**
- Le Jolis; [France]; Cherbourg; [no habitat data]; 26.iv.1861; [no slides]; Le Jolis collection no.1745; [no pfa]; [Note: box marked '*Lithoth. polym. = Lithoph incrustans*']; **TRH A8-406.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'paa [= on] *Cystoseira*'; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. med [= mixed with] *L. macroc.*'. The material of *L. macrocarpum* is filed in Drawer A17 (A17-1058). Collection not included in Adey & Lebednik 1967]; **TRH A8-408.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: Collection not included in Adey & Lebednik 1967. Box marked '(nærmest ung [= almost a young] f. *harveyi*)']; **TRH A8-411.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'récolte a la main [= gathered by hand]'; 5.i.1907; slide 1330; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 23 mistakenly list the collector as 'Flahault'. Box marked 'præp. 1330 større ekspl. ved x [= slide 1330 larger specimen at x]' and 'obs. større ekspl. med bægerf. nydann. nedre side som hos [*L.*] *exp.* [= observed larger specimen with newly formed, cup-shaped lower side as with *L. exp.*]']; **TRH A8-407.**
- Solms-Laubach; [Italy]; Naples; [no habitat data]; 1879; [no slides]; ex herb. Thur. [PC]; [no pfa]; [Note: box marked 'cyst. konc. [= cystocarpic conceptacles]'. Adey & Lebednik 1967: 23 list the collector as 'Laubach']; **TRH A8-412.**
- Thuret & Bornet; [France]; Cherbourg; [no habitat data]; 14.xi.1853; [no slides]; ex herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked '*Lithoph. polymorphum* cum disporis [= with bispores] = *Lithoph. incrustans*'. Annotation slip in box marked 'Herb. G. Thuret. Donné par M. Ed. Bornet']; **TRH A8-381.**

- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A8-413.**
- [Anon.]; [Croatia]; Adriaterhavet [= Adriatic Sea]; [no habitat data]; x.1908; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A8-415.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; 1853; [no slides]; ex herb. Thuret – Bernet [PC]; [no pfa]; [Note: box marked '*L. incrustans*, *Spongites polymorpha*' and 'cyst.? konc. [= cystocarpic? conceptacles]']; **TRH A8-418.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; 4.xii.1857; [no slides]; Le Jolis *Alg. Mar. Herb.* no.11; [no pfa]; [Note: box marked '*Lith. polymorphum* = *Lithoph. incrustans*'. '*Algues Marines de Cherbourg*' is an exsiccata set issued by Le Jolis. 'No. 11' refers to specimen number 11 in the set]; **TRH A8-420.**
- [Anon.]; France; Cherbourg; [no habitat data]; [no date]; [no slides]; [ex] (Mus d'H. Natur. Paris) [PC], comm. P. Hariot 1907, no. 10; [no pfa]; [Note: Adey & Lebednik 1967: 23 mistakenly list 'Hariot' as the collector and '1907' as the collection date]; **TRH A8-416.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; [no date]; [no slides]; ex herb. Aresch. (Wittr.) [S]; [no pfa]; [Note: box marked '*Lith. polymorphum* Aresch. scr. Aresch. = *Lithoph. incrustans*']; **TRH A8-417.**
- [Anon.]; [Italy]; Gulf of Naples; collection depth: 30-80 metres; [no date]; [no slides]; Zool. Station Naples 1896; [no pfa]; [Note: Adey & Lebednik 1967: 23 apparently combine information from A8-421 and A8-422 under one entry without indicating that two boxes occur, and they mistakenly list the collection date as '1896']; **TRH A8-421.**
- [Anon.]; [Italy]; Gulf of Naples; collection depth: 30-80 metres; [no date]; slides 20, 34; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 23 apparently combine information from A8-421 and A8-422 under one entry without indicating that two boxes occur, and they mistakenly list the collection date as '1896']; **TRH A8-422.**
- [Anon.]; Portugal; Port de Leixoes; pres du Porto (Oporto) [= taken at the port]; [no date]; [no slides]; comm. J.A. Henriques, Coimbra [COI], ii.1901; [no pfa]; [Note: communication date written on annotation slip in box. Adey & Lebednik 1967: 23 mistakenly list 'Henriques' as the collector and the collection date as '1901']; **TRH A8-423.**

***incrustans*, *Lithophyllum* (f. *angulata*)** [originally described as *Lithophyllum incrustans* f. *angulata* (Foslie 1899c: 17), where Foslie retained it. Collections listed in Adey & Lebednik 1967: 23 under species without mention of forma]. **Lectotype:** TRH, A8-424 (see below).

Flahault; [France]; Banyuls-sur-Mer (Roussillon); 'drague au large de Banyuls-sur-Mer par 35 m de profondeur [= dredged off Banyuls-sur-Mer from a depth of 35 metres]'; [no date]; slide 52 (not marked on box); Flahault collection 254; [no pfa marked on box, but see Note]; [Note: **Lectotype** of *Lithophyllum incrustans* f. *angulata* Foslie. Additional data — Woelkerling 1993: 27 and Woelkerling & Verheij 1995: 36. One specimen illustrated in Printz 1929, pl. 58, fig. 11. Flahault collection number 254 also occurs on three boxes (A8-393, A8-394, A8-395) filed under *Lithophyllum incrustans*. Grouped with two collections of *L. incrustans* (A8-393 & A8-394) under one entry in Adey & Lebednik 1967: 23. Collection also represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6)]; **TRH A8-424.**

[Anon.]; Marokko [= Morocco]; Tangier; [no habitat data]; [no date]; [no slides]; [ex] Mus. D'Hist. Nat. Paris [PC], comm. P. Hariot, 1905, number 3; [no pfa]; [Note: box marked 'ikke typisk [= not typical]'. Annotation slip in box marked 'A mod. extreme variety of this form, in some respects approaching certain forms of *L. dentatum*'. Grouped with A8-426 under one entry in Adey & Lebednik 1967: 23, who mistakenly list the collector as 'Hariot', mistakenly list the collection data as '1905', and do not mention the infraspecific epithet]; **TRH A8-425.**

[Anon.]; Marokko [= Morocco]; Tangier; [no habitat data]; [no date]; [no slides]; [ex] Mus. D'Hist. Nat. Paris [PC], comm. P. Hariot, 1905, number 5; [no pfa]; [Note: box marked

'*Lithoph. incrustans* Phil. fere [= nearly] f. *angulata* Fosl.'. Grouped with A8-425 under one entry in Adey & Lebednik 1967: 23, who mistakenly list the collector as 'Harriot', mistakenly list the collection data as '1905', and do not mention the infraspecific epithet]; **TRH A8-426.**

incrustans, Lithophyllum (f. depressa) [originally described as *Lithothamnion depressum* (P.L. & H.M. Crouan 1867: 151) but subsequently (Foslie 1895a: 122) reduced to the rank of form and transferred into *Lithothamnion incrustans* as *L. incrustans* f. *depressa*, and then (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum* as *L. incrustans* f. *depressa*, where Foslie retained it in publication. Additional collections are in Drawer A7. Collections listed in Adey & Lebednik 1967: 23 under species without mention of forma]. **Lectotype: CO**, unnumbered (Chamberlain & Irvine 1994a: 79, Woelkerling 1998c: 340).

Bornet; [France]; Cherbourg; [no habitat data]; 14.xi.1853; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst.? konc. [= cystocarpic? conceptacles?]]; **TRH A8-382.**

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH A8-427.**

Thuret & Bornet; [France]; Cherbourg; [no habitat data]; 19.ix.1853; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 18, fig. 10; [Note: box marked '*Lithoth. polymorphum* cum [= with] tetrasporis = *Lithoph. incrustans* f. *depressa*'. Annotation slip in box marked 'Herb. G. Thuret. Donné par M. Ed. Bornet' **PC**]]; **TRH A8-428.**

[Anon.]; [Croatia]; [Adriatic Sea], Cherso [now Cres]; [no habitat data]; [no date]; slide 1; 'Hauck ded. [= given by Hauck] 1878', ex herb. Bornet **PC**]; [no pfa]; [Note: box marked '*L. polymorph. = L. incrustans*' but slide marked '*Lithophyllum incrustans* f. *depressa*'. Adey & Lebednik 1967: 23 give the collecting date as '1878']; **TRH A8-414.**

incrustans, Lithophyllum (f. harveyi) [originally described as *Lithothamnion incrustans* f. *harveyi* (Foslie 1895a: 122) but subsequently (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum* as *L. incrustans* f. *harveyi*, where Foslie retained it in publication. Additional collections are in Drawer A7. Collections listed in Adey & Lebednik 1967: 23 under species without mention of forma]. **Lectotype: TRH**, A7-376 (in Drawer A7).

Chalon; [France]; Middelh. [= the Mediterranean], Banyuls-sur-Mer; [no habitat data]; iv.1900; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box from Chalon marked '*Lithoph. incrustans* f. *harveyi*', but box lid only marked '*Lithoph. incrustans*'. Grouped with two collections of *L. incrustans* (A8-385, A8-386) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-384.**

Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 7; [Note: grouped with eight collections of *Lithophyllum incrustans* (A8-387, A8-388, A8-389, A8-168, A8-419, A8-390, A8-391, A8-392) under one entry in Adey & Lebednik 1967: 23]; **TRH A8-429.**

Kuckuck; Marokko [= Morocco]; El Arisch (Larache) an der Westküste von Marokko [= on the west coast of Morocco]; [no habitat data]; 14.v.1901; slide 788; [no other collection data]; [no pfa]; [Note: box marked '*L. retusum* Fosl. (brudstk. [= fragments]) = *L. incrust.* f. *harveyi* (?)'. Adey & Lebednik 1967: 23 do not mention the infraspecific epithet, mistakenly give the collection locality as 'Tangier' and mistakenly give the collection date as '14.vi.1901']; **TRH A8-430.**

Rosenvinge; [France]; Cherbourg; [no habitat data]; 1884; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 10; [Note: grouped with A8-432 under one entry in Adey & Lebednik 1967: 23]; **TRH A8-431.**

- Rosenvinge; [France]; Cherbourg; [no habitat data]; 1884; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. polym.* = *L. incrustans* f. *angulata* f. *harveyi*'. Grouped with A8-431 under one entry in Adey & Lebednik 1967: 23]; **TRH A8-432.**
- Sauvageau; [France]; Middelhavet [= the Mediterranean], Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 58, fig. 9; [Note: collection not included in Adey & Lebednik 1967]; **TRH A8-433.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'f. *harveyi-angulata*, og overg. til [= and grading into] *L. dent.* + *L. exp.*'. Collection not included in Adey & Lebednik 1967]; **TRH A8-434.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(væsentsl. [= mainly] f. *harveyi*)'. Collection not included in Adey & Lebednik 1967]; **TRH A8-409.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(væsentsl. [= mainly] f. *harveyi*)'. Collection not included in Adey & Lebednik 1967]; **TRH A8-410.**

Case A, Drawer 9

aequabile*, *Lithophyllum [originally described as *Lithophyllum discoideum* f. *aequabilis* (Foslie 1905e: 17) but subsequently (Foslie 1906b: 22, 1907c: 12) raised to the rank of species, namely *Lithophyllum aequabile*, but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A9-437 (see below).

Skottsberg; [Antarctica]; Louis-Philippe Land [now Graham Land], Cape Roquemaurel; 'littoral, allm täckande [= littoral, commonly covering]'; 14.i.1902; slide 950; Swedish South Polar Expedition 1901-1903, station 4; pfa: Foslie 1907c, pl. 2, fig. 8, and Printz 1929, pl. 59, fig. 13; [no notes]; **TRH A9-435.**

Skottsberg; [South Georgia and the South Sandwich Islands]; Sydgeorgien [= South Georgia], Cumberland Bay, Maiviken [= May Harbour]; 'Bassiner [= in pools]'; 8.v.1902; slide 948; Swedish South Polar Expedition 1901-1903, station 15; pfa: Foslie 1907c, pl. 2, fig. 7, and Printz 1929, pl. 59, fig. 14; [no notes]; **TRH A9-436.**

[Anon.]; [South Orkney Islands]; New Orkney Island, Scotia Bay; collection depth: 9-10 fathoms; vii.1903; slide 951; Skotsk antarkt. Eksp. "Scotia" [= Scottish National Antarctic Expedition 1902-1904]; pfa: Foslie 1907c, pl. 2, fig. 8, and Printz 1929, pl. 59, fig. 12 [but see Note]; [Note: **Holotype** of *Lithophyllum discoideum* f. *aequabilis*. Additional data – Mendoza & Cabiocch 1985b: 256, and Woelkerling 1993: 20. Box marked '1. *Lithoph. discoideum* f. *aequabilis* = *Lithoph. aequabile*. (2. = *L. decipiens* f.). 3.-4. *L. magellanicum* f. *crenulata*' (numbers refer to marked specimens on the stone). According to Woelkerling 1993: 20, specimen in box differs from one depicted in Printz 1929. Adey & Lebednik 1967: 23 mistakenly list 'Hariat' as the collector]; **TRH A9-437.**

[Anon.]; [South Orkney Islands]; New Orkney Island; [no habitat data]; 1904; slide 951 [but see Note]; Scottish Antarctic Expedition "Scotia" [= Scottish National Antarctic Expedition 1902-1904]; [no pfa]; [Note: collection consists of three fragmentary pieces of stone with attached coralline material. Box marked '= Holmes nr. 1' and '*L. discoideum* f. *aequabilis*' and 'præp. [= slide] 951'. Slide 951, housed in and cited on the box lid of the previous collection (A9-437), is likely to have been prepared from material in A9-438, but no reference to Holmes nr. 1 occurs on A9-437, and thus collections A9-437 & A9-438 have been kept apart. Collection A9-438 not included in Adey & Lebednik 1967]; **TRH A9-438.**

aequabile, Lithophyllum (f. wandelica) [originally described as *Lithophyllum aequabile* f. *wandelica* (Foslie 1906b: 22), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 23 under species without mention of forma]. **Lectotype: TRH, A9-439** (see below).

Turquét; [Antarctica]; Ile Wandel [= Wandel Island] (65°4'S); [no habitat data]; 10.-27.ix.1904; slides 1129-1135, 1184-1186; comm. P. Hariot, 1906, numbers A, B, C, & numbers 46, 50, 54, 71, 72, 98, Exp. antarctique Charcot [= French Antarctic Expedition 1903-1905]; pfa: Printz 1929, pl. 59, figs 15-19; [Note: **Lectotype** of *Lithophyllum aequabile* f. *wandelica* Foslie. Additional data — Woelkerling 1993: 237 (who mistakenly used the generic name *Lithothamnion* rather than *Lithophyllum*), and Woelkerling 1998c: 299. Box marked 'Wandel Øen if. Skottsberg ... øgruppen i og omkring Gerlache kanalen, altsaa vestenfor Grahamslands nordlige del. [= Wandel Island according to Skottsberg ... group of islands in and around the canal Gerlache, therefore west of Grahamslands northern part]'. Adey & Lebednik 1967: 23 mistakenly list 'Hariot' as the collector]; **TRH A9-439**.

capitulatum, Lithophyllum [originally described as *Lithophyllum capitulatum* (Heydrich 1900d: (560)) and retained in that genus by Foslie]. **Holotype: BR**, Racovitza collection 77 (Woelkerling 1993: 47) (not seen).

Racovitza; Argentina; Terre de Feu [= Tierra del Fuego Island], Beagle Channel, Lapataia; [no habitat data]; 24.xii.1897; slides 791, 1362; Racovitza collection no. 77, ex herb. Jard. Bot. de l'Etat Bruxelles [**BR**]; pfa: Printz 1929, pl. 59, fig. 3; [Note: **Holotype fragment** of *Lithophyllum capitulatum* Heydrich. Additional data — Woelkerling 1993: 47. Box marked '*Lithoph. capitulatum* Heydr. = *L. discoideum* fere [= nearly] f. *circumscripta* (nesten typisk [= almost typical])' and 'præp. 791 af stk. mk. x [= slide 791 of piece marked x]'. Two photographs and a glass negative of the holotype in **BR** from which the **TRH** fragment was derived are housed in a separate envelope. Listed under *Lithophyllum discoideum* in Adey & Lebednik 1967: 24 who give the collector as 'Racovitca']; **TRH A9-440**.

consociatum, Lithophyllum [originally described as *Lithophyllum consociatum* (Foslie 1905e: 15), where Foslie retained it in publication except for one unintentional use of *Lithothamnion* (Foslie 1908a: 210)]. **Holotype: TRH, A9-441** (see below).

Gundersen; Kerguelen; Royal Sound, sydsiden av [= south side of] Royal Sound, ca 1 mil mundingen [= about 10 km from the mouth]; [no habitat data]; 1898; slide 917; [no other collection data]; pfa: Foslie 1908a, pl. 20, fig. 12, and Printz 1929, pl. 59, figs 20-21; [Note: **Holotype** of *Lithothamnion consociatum*. Additional data — Mendoza & Cabioch 1986: 178, and Woelkerling 1993: 62. Box marked '*Lithoph. consociatum* f. *connata*' [a superfluous name for f. *consociatum*]. Collection includes small box inside large box marked 'Lith. Gauss exp. Fig. 12 [= Foslie 1908a, pl. 20, fig. 12]'. According to a letter from H. Gundersen dated 25.v.1905 (see photocopy with collection), the collection was made on the south side of Royal Sound about one 'Norwegian mile' from the entrance]; **TRH A9-441**.

Naumann; Kerguelen; Betsy Cove; [no habitat data]; 1874-1875; [no slides]; Gazellen Expedition 1874-75 [= German Transit of Venus Expedition 1874-1876]; [no pfa]; [no notes]; **TRH A9-442**.

Werth; Kerguelen; Observatory Bay; [no habitat data]; 1903; slides 907-908; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked '*Lithoph. consociatum* f. *typica* - *connata*'. All Werth collections of '*consociatum*' (A9-443 through A-948) grouped under one entry in Adey & Lebednik 1967: 24, who record seven boxes, of which six have been accounted for during the present study]; **TRH A9-443**.

Werth; Kerguelen; Observatory Bay; [no habitat data]; 1903; slide 909; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked '*Lithoph. conso-*
ciatum f. *connata* (og [= and] *Lithoth. neglectum*)'. All Werth collections of '*consociatum*'

- (A9-443 through A-948) grouped under one entry in Adey & Lebednik 1967: 24. Adey & Lebednik reported 7 boxes but only 6 have been found]; **TRH A9-444.**
- Werth; Kerguelen; Observatory Bay, Entenbucht [= Duck Cove]; [no habitat data]; 14.ii.1903; slides 912-913; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked '*Lithoph. consociatum*' and the slides marked '*L. consociatum* f. *typica* – *connata*'. All Werth collections of '*consociatum*' (A9-443 through A-948) grouped under one entry in Adey & Lebednik 1967: 24. Adey & Lebednik reported 7 boxes but only 6 have been found]; **TRH A9-445.**
- Werth; Kerguelen; Observatory Bay, Entenbucht [= Duck Cove]; [no habitat data]; 14.ii.1903; slide 914; Gauss Expedition [= German South Polar Expedition 1901-1903]; pfa: Printz 1929, pl. 59, fig. 23; [Note: box marked '*Lithoph. consociatum* f. *typica*'. All Werth collections of '*consociatum*' (A9-443 through A-948) grouped under one entry in Adey & Lebednik 1967: 24. Adey & Lebednik reported 7 boxes but only 6 have been found]; **TRH A9-446.**
- Werth; Kerguelen; Observatory Bay, Entenbucht [= Duck Cove]; [no habitat data]; 14.ii.1903; slide 915; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked '*Lithoph. consociatum* f. *typica* - *connata*'. All Werth collections of '*consociatum*' (A9-443 through A-948) grouped under one entry in Adey & Lebednik 1967: 24. Adey & Lebednik reported 7 boxes but only 6 have been found]; **TRH A9-447.**
- Werth; Kerguelen; Observatory Bay, Entenbucht [= Duck Cove]; [no habitat data]; 14.ii.1903; slide 916; Gauss Expedition [= German South Polar Expedition 1901-1903]; pfa: Printz 1929, pl. 59, fig. 22; [Note: box marked '*Lithoph. consociatum* f. *typica* og [= and] *Lithoth. neglectum* f. *fragilis*'. All Werth collections of '*consociatum*' (A9-443 through A-948) grouped under one entry in Adey & Lebednik 1967: 24. Adey & Lebednik reported 7 boxes but only 6 have been found]; **TRH A9-448.**

discoideum*, *Lithophyllum [originally described as *Lithophyllum discoideum* (Foslie 1900f: 73), where Foslie retained it in publication]. **Lectotype:** TRH, A9-449 (see below).

- Dusén; Tierra del Fuego, [country uncertain]; [no other locality data]; [no habitat data]; ii.1896; slide 374; [no other collection data]; pfa: Printz 1929, pl. 59, figs 1-2; [Note: **Lectotype** of *Lithophyllum discoideum* Foslie. Additional data — Mendoza & Cabioch 1985a: 148, Mendoza & Cabioch 1986: 173, Penrose & Woelkerling 1988: 168, Woelkerling 1993: 76, and Chamberlain 1994a: 148. It is uncertain whether Tierra del Fuego refers to Tierra del Fuego Island or the Tierra del Fuego Archipelago, and it also is uncertain whether the material was collected in Chile or Argentina. Collection was on loan during catalogue preparation. Entry prepared from information in Woelkerling 1993. Information on box, slides and any annotation slips present was not accessible]; **TRH A9-449.**
- Paessler; [Chile] [but see Note]; Smyth Channel [= Smyth Channel], Chacabuco; on *Lithothamnion rugosum*; 1888; [no slides]; ex Bot. Mus. Hamburg [**HBG**] 1901; [no pfa]; [Note: box marked '*Lithoph. discoideum* paa [= on] *Lithot. rugosum*' and 'obs. koncept.! [= conceptacles observed!']. Country of collection is presumed to be Chile on the basis that the Smyth Channel occurs in southern Chile where von Paessler collected]; **TRH A9-450.**
- Skottsberg; Falklandsøerne [= Falkland Islands]; Berkeley Sound, Port Louis; 'bassenger i fjæren [= pools in the tidal zone]'; 21.vii.-3.viii.1902; slide 938 and ten unnumbered slides; Swedish South Polar Expedition 1901-1903, Station 35; pfa: Printz 1929, pl. 59, figs 7, 9-10; [Note: large round box marked 'Obs. afh. præp. sp. foto [= observed thesis slide sporangia photo]. Collection also includes smaller round box (marked 'sp. konc. fotogr. [= sporangial conceptacles photographed']') with material used to prepare slide 938]; **TRH A9-453.**
- [Skottsberg]; Falklandsøerne [= Falkland Islands]; Hooker Point; [no habitat data]; 18.viii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, Station 48; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH A9-452.**

- Skottsberg; Falklandsøerne [= Falkland Islands]; Hooker Point; [no habitat data]; 25.ii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, Station 48; pfa: Printz 1929, pl. 59, fig. 5; [Note: box marked 'st. 35 48 18/8?' by Foslie, and annotation slip in box marked 'st. 48' by Foslie. Grouped with holotype of *Lithophyllum discoideum* f. *compacta* (A9-459) under one entry in Adey & Lebednik 1967: 24]; **TRH A9-451**.
- Skottsberg; [Argentina]; Observatory Island (near Staten Island); 'paa [= on] *L. decipiens*', collection depth: 25 metres; 6.i.1902; slide 935; Swedish South Polar Expedition 1901-1903, station 1; pfa: Foslie 1907c, pl. 2, fig. 2, and Printz 1929, pl. 59, figs 4, 8; [Note: box marked '4 *L. discoideum*' and '(5 *L. decipiens*)']; **TRH A9-454**.
- [Skottsberg]; [Argentina]; Observatory Island; [no habitat data]; 6.i.1902; [no slides]; Observatory Island station 1; [no pfa]; [Note: box marked 'konc. [= conceptacles]'. Adey & Lebednik 1967: 24 list locality as 'Observation Is.']; **TRH A9-455**.
- Thaxter; Chile; Punta Arenas, (Magallanstr. [= Straits of Magellan]); [no habitat data]; 1905-1906; slides 1489-1490; comm. Farlow 1907, nr. 11; pfa: Printz 1929, pl. 59, fig. 6; [Note: slide 1490 marked '*Lithoph. discoideum* f. *typica*']; **TRH A9-456**.
- [Anon.]; [Argentina]; Patagonia; [no habitat data]; [no date]; slides 289, 375; [no other collection data]; [no pfa]; [Note: box marked '*L. discoideum* (delvis paa [= partly on] *L. decipiens*)' and '*Lith. rugosum* - delvis ogsaa under denne [= partly also under this]' and '(x *L. magellanicum*?)']; **TRH A9-458**.

discoideum, Lithophyllum (f. aequabilis). See listing above for *aequabile, Lithophyllum*.

discoideum, Lithophyllum (f. compacta) [originally described as *Lithophyllum discoideum* f. *compacta* (Foslie 1906b: 22), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 24 under species without mention of forma]. **Holotype: TRH, A9-459** (see below).

Skottsberg; Falklandsøerne [= Falkland Islands]; Hookers Point; [no habitat data]; 25.ii.1902; slide 1187; Swedish South Polar Expedition 1901-1903, Station 48; pfa: Foslie 1907c, pl. 2, fig. 5, and Printz 1929, pl. 59, fig. 11; [Note: **Holotype** of *Lithophyllum discoideum* f. *compacta*. Additional data — Woelkerling 1993: 54. Box marked 'st. 35 48 18/8?' by Foslie. Collection includes separate envelope with photo of specimen depicted in Foslie 1907c and Printz 1929. Holotype grouped with a collection of *Lithophyllum discoideum* (A9-451) under one entry in Adey & Lebednik 1967:24]; **TRH A9-459**.

fuegianum, Lithophyllum [originally described as *Lithophyllum fuegianum* (Heydrich 1901a: 533, pl. 11, figs 1-3), but almost immediately considered by Foslie (1901d: 24) to be a heterotypic synonym of *Lithophyllum discoideum* Foslie, and retained there as a synonym in Foslie's subsequent publications. Type listed here under original name, but collection was filed under *Lithophyllum discoideum* in Foslie's herbarium]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 312).

Willems & Rousson; Fuegia [= Tierra del Fuego], [country uncertain]; [no other locality data]; [no habitat data]; 1892; slide 660 [missing]; [no other collection data]; [no pfa]; [Note: **Holotype fragment** of *Lithophyllum fuegianum* Heydrich. Additional data — Mendoza & Cabioch 1985a: 145, and Woelkerling 1998c: 312. **TRH** collection contains one specimen and some fragments. Box marked '*Lpm. fuegianum* Heydr. "Lith Mus. Par." Fig. 1' and '#20 Herb. Mus. Paris = *L. discoideum* Fosl. f. *typica*'. 'Lith. Mus. Par.' denotes Heydrich 1901a. Specimen in box wrapped in a piece of paper marked 'Af ekspl. fra Paris [= from (one word unclear) specimen in Paris]'. Separate annotation slip with cell measurements from slide 660 marked '*Lithoth. fuegianum*' and 'Fuegia, 1892' and 'Pr. [= slide] 660'. It is uncertain whether Tierra del Fuego refers to Tierra del Fuego Island or the Tierra del Fuego Archipelago, and it also is uncertain whether the material was collected in Chile or Argentina. Photographs and a glass negative said to show **PC** material

of this taxon are housed in a separate envelope in Drawer A9. Listed under *Lithophyllum discoideum* in Adey & Lebednik 1967: 24, and inadvertently overlooked by Woelkerling 1993; **TRH A9-457**.

Case A, Drawer 10

accretum, Goniolithon [originally described as *Goniolithon accretum* (Foslie & Howe 1906b: (131)), where Foslie subsequently retained it in publication]. **Holotype: NY**, Howe collection 2920a (Woelkerling 1993: 16).

Howe; Bahamas; Atwood (Sanana) Cay; [no habitat data]; 3.xii.1907; slide 1678; [Howe collection number] 5245; pfa: Printz 1929, pl. 45, fig. 19; [Note: box marked 'N.Y.B.G. 5425' **[NY]**]; **TRH A10-466**.

Howe; Bahamas; Berry Islands, Great Sturrops Cay; on surf. beaten rocks at low water mark; 1.ii.1905; one slide labelled with Howe collection number 3627; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden no. 3627' **[NY]** and 'steril [= sterile]'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**. Grouped with A10-461 under one entry in Adey & Lebednik 1967: 24; **TRH A10-460**.

Howe; Bahamas; Berry Islands, Great Sturrops Cay; [no habitat data]; 1.ii.1905; two slides, both labelled with Howe collection number 3629; [no other collection data]; [no pfa]; [Note: box marked 'New York Botanical Garden no. 3629' **[NY]** and 'steril [= sterile]'. Annotation slip in box marked 'Grayish or light slate-color when living, almost concolorous with the substratum.'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**. Grouped with A10-460 under one entry in Adey & Lebednik 1967: 19; **TRH A10-461**.

Howe; Bahamas; Castle Island, near Acklin Island; on coral in 3 dm (decimetres) of water (low tide); 22.xii.1907; slides 1703, 1713; [Howe collection number] 5752; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box lid also marked 'Præp. 1703 og 1713 = løse stk. [= slides 1703 and 1713 = loose pieces]'. Annotation slip in box refers to Acklin Island]; **TRH A10-462**.

Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on shells occupied by termite-crabs, near low water; 6.xii.1907; slides 1689, 1711; [Howe collection number] 5372; [no pfa]; [Note: box marked 'N.Y.B.G. 5372' **[NY]** and '*Gon. accretum* forma (?)'. Grouped with A10-465 under one entry in Adey & Lebednik 1967: 24; **TRH A10-464**.

Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on living corals near low water, with *Goniolithon*; 6.xii.1907; slides 1691, 1712; [Howe collection number] 5374; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box lid also marked '*Gon. accretum* forma paa [= on] *Gon. spectabile propinquum*'. Grouped with A10-464 under one entry in Adey & Lebednik 1967: 24; **TRH A10-465**.

Howe; Bahamas; Mariguana [= Mayaguana] [Island], southeast point; on pebble in 3 dm (decimetres) w.l.t. (water low tide); 10.xii.1907; slide 1699; [Howe collection number] 5494; [no pfa]; [Note: box marked 'N.Y.B.G. 5494' **[NY]**. Collection includes small box placed inside larger box with same collecting information and also marked 'anth. konc. foto. [= antheridial conceptacles photographed]']; **TRH A10-463**.

Howe; Bahamas; South Cat Cay, Dollar Harbor; on rock near low water mark; 19.iv.1904; one slide labelled with Howe collection number 3295; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden No. 3295' **[NY]** and '*Gon. accretum* (?)' and 'konc. [= conceptacles]'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**; **TRH A10-467**.

- Howe; Bahamas; Watling Island, south-eastern end; [no habitat data]; 28.xi.1907; slide 1674; [Howe collection number] 5182; [no pfa]; [Note: box marked 'N.Y.B.G. 5182' **[NY]** and 'a. *Gon. accretum* og [= and] b. *Lithoph. pachydermum*']; **TRH A10-468.**
- Howe; Jamaica; Drunkenman's Cay, near Kingston; [no habitat data]; 29.xii.1906; slide 1403; [Howe collection number] 4737; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Grouped with A10-471 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-470.**
- Howe; Jamaica; Drunkenman's Cay, near Kingston; near low water mark; 29.xii.1906; [no slides, but see Note]; [Howe collection number] 4736a; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box lid also marked 'præp. [= slides] 1401, 1402 af begge arter [= of both species]' and 's. med [= mixed with] *Lithoth. syntrophicum* 4736b udt. [= taken out]'. Howe collection 4736b, including slides 1401 & 1402, are filed under *Lithothamnion syntrophicum* in Drawer B16 (B16-2520). A10-471 grouped with A10-470 under one entry in Adey & Lebednik 1967:]; **TRH A10-471.**
- Howe; Jamaica; below Fort Clarence, near Kingston; near low water mark in shaded places; 21.xii.1906; slides 1393, 1423; [Howe collection number] 4645; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box lid also marked '*Gon. accretum* f.?' and 'anth. konc. [= antheridial conceptacles]' and '1393 ved x, mindste stk. [= 1393 at x, smallest piece]' and '1423 af største stk. ved x [= 1423 from largest piece at x]'. Habitat data in box on Howe annotation slip, which also is marked 'bright red when living']; **TRH A10-473.**
- Howe; Jamaica; Gun Cay, near Kingston Harbor; on 3 dm (decimetres) of water; 20.xii.1906; slide 1390; **NY** 4627a, 4627b [Howe collection number] 4627; [no pfa]; [Note: box marked 'N.Y.B.G.' **[NY]** and '*Gon. accretum* paa [= on] *Gon. borgeseni* and 'a. 2 største [= largest], b. mindste [= smallest]'. Grouped with A10-475 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-472.**
- Howe; Jamaica; Montego Bay; on a littoral reef; 5.i.1907; slide 1408; [Howe collection number] 4762; [no pfa]; [Note: box marked 'N.Y.B.G.' **[NY]** and '(with 4761 *Lithoph. pachyd.*)'. Howe collection 4761 is listed under *Lithophyllum pachydermum* in Drawer A26 (A26-1542)]; **TRH A10-474.**
- Howe; Jamaica; Rackam's Cay, near Kingston Harbor; on fragment of coral; 20.xii.1906; slide 1387; [Howe collection number] 4594; [no pfa]; [Note: box marked 'N.Y.B.G. nr. 4594' **[NY]** and '*Gon. accretum* f.? eller [= or] *propinquum*?' and 'anth. konc. [= antheridial conceptacles]'. Grouped with A10-472 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-475.**
- Howe; Puerto Rico; Guanica Harbor; at low water mark; 28.vi.1903; one slide labelled with Howe collection number 2694; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]** and '~~*Lithoph. decipiens* forma?~~ and '~~*caribaeum*~~ and '*Gon. accretum*?' and 's. med [= mixed with] 2659'. Howe 2659 is listed under *Lithophyllum daedaleum* in Drawer A22 (A22-1336). Annotation slip in box marked 'growing on *Lith.* 2659. The smoother *Lith.* is no. 2694'. Slide marked '~~*Lithoph. caribaeum* forma?~~ and '~~*decipiens*~~']; **TRH A10-476.**
- Howe; Puerto Rico; San Juan, Santurce; [no habitat data]; 20.v.1903; two slides, both labelled with Howe collection number 1994b; [Howe collection number] 1994b; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]** and '*Gon. (Lithoph.?) sp.?*'. Slides marked '*Gon. (Lithoph.?) sp.?*' and '*Gon. accretum*?''. Howe collection 1994a filed under *Goniolithon notarisii* (A10-516)]; **TRH A10-479.**
- Howe; Puerto Rico; San Juan, Santurce; free in tide-pool; 27.v.1903; one slide labelled with Howe collection number 2198; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]** and '*(Goniolithon sp. (delvis? [= in part?]) (blandt [= among] notarisii) G. accretum (?)*'. Collection grouped with A10-478 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-477.**
- Howe; Puerto Rico; San Juan, Santurce; on surf-beaten rock at low water mark; 27.v.1903; one slide labelled with Howe collection number 2194; [no other collection data]; [no pfa];

[Note: box marked 'New York Bot. Garden' [NY] and '*Gon. notarisii* f. *pychoides* G. *accretum*?' and 'steril [= sterile]'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in NY. Collection grouped with A10-477 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-478**.

Howe; [United States]; Florida, Sands Key; on rocks, coral pebbles, etc., near low water mark; 30.iii.1904; four slides, all labelled with Howe collection number 2920a; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 20; [Note: **Isotype** of *Goniolithon accretum* Foslie & Howe. Additional data — Woelkerling 1993: 16. Box marked 'New York Bot. Garden' [NY] and 'præp. [= slide] 981', but slides only bear the Howe collection number 2920a. Box also marked 'konc. [= conceptacles]'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in NY]; **TRH A10-469**.

accretum, *Goniolithon* (f. *canariensis*) [originally described as *Goniolithon accretum* f. *canariensis* (Foslie 1906a: 17), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 24 under species without mention of forma].

Holotype: divided between **PC**, General Herbarium, and **TRH** (A10-480) (Woelkerling 1998c: 289).

Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; littoral reg.; xii.1904-ii.1905; slides 1016, 1021; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 21; [Note: **Part of holotype** of *Goniolithon accretum* f. *canariensis*. Additional data — Woelkerling 1993: 46, and Woelkerling 1998c: 289. Annotation slip from Sauvageau marked 'Algues marines des Canaries.'. Collection includes two boxes with identical collecting information except that one box is marked 'præp. [= slide] 1016' and the other 'præp. [= slide] 1021 af mindste ekspl. [= of smallest specimen]'. The pfa is written on the latter box]; **TRH A10-480**.

ceylonense, *Goniolithon* [originally described as *Goniolithon ceylonense* (Foslie 1906a: 20), but not mentioned in Foslie's subsequent publications]. **Lectotype:** **TRH**, A10-481 (see below).

Svedelius; Ceylon [now Sri Lanka]; Dondern Head; littoral [zone]; 17.iii.1903; slide 976; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 18; [Note: **Lectotype** of *Goniolithon ceylonense* Foslie. Additional data — Woelkerling 1993: 49]; **TRH A10-481**.

Svedelius; Ceylon [now Sri Lanka]; Galle; littoral [zone]; 5.ii.1903; slide 972; [no other collection data]; [no pfa]; [Note: box marked '*Gon. (?) ceylonense*?'. Grouped with A10-484 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-483**.

Svedelius; Ceylon [now Sri Lanka]; Galle; littoral [zone]; 5.ii.1903; slide 977; [no other collection data]; [no pfa]; [Note: box marked '*Gon. myriocarpum?* *ceylonense* (?)'. Grouped with A10-483 under one entry in Adey & Lebednik 1967: 24]; **TRH A10-484**.

Svedelius; Ceylon [now Sri Lanka]; Galle; littoral [zone]; 17.iii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A10-482**.

hariotii, *Goniolithon* [originally described as *Lithophyllum hariotii* (Foslie 1907a: 13), where Foslie retained it in publication]. **Holotype:** divided between **PC**, General Herbarium, and **TRH** (A10-485) (Woelkerling 1998c: 291).

[Seurat]; Gambier Islands; Mangareva; [no habitat data]; [no date]; slides 1435-1436; [ex] Mus. Paris [**PC**], [comm.] P. Hariot, iv.1907, number 17; pfa: Printz 1929, pl. 46, figs 10-11; [Note: **Part of holotype** of *Goniolithon hariotii* Foslie. Additional data — Woelkerling 1993: 114 & Woelkerling 1998c: 291. Box marked '(mindste stk. *Lithoph.* sp., nær *pallescens*, delvis ogsaa største [= smallest piece *Lithoph.* sp., close to *pallescens*, partly also largest])'. Both 'Tahiti' and the 'Gambier Islands' are written on the **TRH** box cover but Mangareva is one of the Gambier Islands while Tahiti is one of the Society Islands within

French Polynesia. 'Seurat' is given as collector on the **PC** part of the holotype but not the **TRH** part. Adey & Lebednik 1967:25 mistakenly list 'Harriot' as the collector and 'iv.1907' as the collection date. 'Tahiti' is mistakenly recorded as the collection locality in Adey & Lebednik 1967: 25 and Woelkerling 1993: 114]; **TRH A10-485**.

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Tawi-Tawi Island, Pula Sanguisiapo; [no habitat data]; 24.-25.vi.1899; one slide labelled with Siboga Expedition collection number 1017; Siboga Expedition, station 93, collection 1017; pfa: Foslie 1904b, pl. 9, fig. 9; [Note: collection identified as '*Goniolithon megalocystum*' on box bottom and in Foslie 1904b pl. 9 fig. 9, but box lid and slide marked '*Gon. megalocystum hariotii*'. Collection listed under *Goniolithon hariotii* in Adey & Lebednik 1967: 25]; **TRH A10-487**.

insidiosum, Lithophyllum. See listing below for *notarisii, Goniolithon* (f. *insidiosa*).

mamillare, *Goniolithon*

Adey & Lebednik 1967: 25 included three collections of *Goniolithon mamillare* in Drawer A10 but these listings involve errors of duplication for specimens housed in Drawer A11. The collection that includes slide 610 (A11-555) and the collection that includes slide 1119 (A11-575) are filed under *Goniolithon mamillosum* and are listed under that taxon in Adey & Lebednik 1967: 27. The collection that includes specimen 3854 (A11-544) is filed under *Goniolithon mamillare* and is listed under that taxon in Adey & Lebednik 1967: 26].

megalocystum, Goniolithon [originally described as *Goniolithon megalocystum* (Foslie 1904b: 48), where Foslie retained it in publication]. **Holotype:** **TRH**, A10-486 (see below).

[Weber-van Bosse]; [Indonesia]; [anchorage off] Kawio and Kamboling Islands, [Karkaralong group]; [no habitat data]; 22.-23.vii.1899; one unnumbered slide; Siboga Expedition, station 129, collection 965; pfa: Foslie 1904b, pl. 9, fig. 8, [and Printz 1929, pl. 46, fig. 9]; [Note: **Holotype** of *Goniolithon megalocystum* Foslie. Additional data — Verheij & Woelkerling 1992: 281, and Woelkerling 1993: 147, and Woelkerling & Verheij 1995: 65. Box marked 'konc. delv. [= partly with conceptacles]'. Locality information incorrectly given in protologue, Adey & Lebednik 1967: 25 and in above references to holotype. Corrected locality information taken from Weber 1902. Collection date not given in Adey & Lebednik 1967: 25]; **TRH A10-486**.

misakiense, Goniolithon [originally described as *Goniolithon misakiense* (Foslie 1905d: 4), where Foslie retained it in publication]. **Holotype:** **TRH**, A10-488 (see below).

Yendo; Japan; Misaki; [no habitat data]; iv.1905; slides 1008-1009; [no other collection data]; pfa: Printz 1929, pl. 45, figs 22-24; [Note: **Holotype** of *Goniolithon misakiense* Foslie. Additional data — Woelkerling 1993: 151. Box marked '(delvis overvokset bl. a. [= partly overgrown by among others] *Mastoph. pacifica* (?))'; **TRH A10-488**.

myriocarpum, Goniolithon [originally described as *Lithothamnion myriocarpum* (Foslie 1897b: 19). Subsequently (Foslie 1904b: 45) transferred without change in rank into *Goniolithon* with the specific epithet erroneously spelled *myriocarpon*. Later (Foslie 1909b: 9) cited as *Goniolithon myriocarpum*, using the original spelling. The spelling *myriocarpon* is treated as a typographical error to be corrected in accordance with ICBN (Art. 60.1)]. **Holotype:** **TRH**, A10-491 (see below)

Gardiner; Maldiverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 744; [no other collection data]; [no pfa]; [Note: box marked '*G. fosliei*? mk. [= marked] x præp. [= slide] 744 (ell. [= or] *myrioc.*?) og [= and] *L. onkodes* & *L. craspedium*'. Annotation slip in box marked 'comm. Stanley Gardiner M.A.'. Grouped under one entry with A10-490 in Adey & Lebednik 1967: 25]; **TRH A10-489**.

- Gardiner; Maldiverne [= Maldives Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; two slides, both numbered 746; [no other collection data]; [no pfa]; [Note: box marked '*G. fosliei?* *myriocarpum?*' and 'muligens smaa sp. konc. cfr. heterocyster [= probably small sporangial conceptacles cf. heterocysts (trichocytes)]'. Grouped under one entry with A10-489 in Adey & Lebednik 1967: 25]; **TRH A10-490.**
- Levander; [Eritrea]; Røde hav [= Red Sea], Massanah; [no habitat data]; 1894-1895; slides 557, 1706-1707 and one unnumbered slide; Mus. Zool. Helsingfors, comm. Elfving; pfa: Foslie 1904b, pl. 9, fig. 6, and Printz 1929, pl. 46, fig.6; [Note: **Holotype** of *Lithothamnion myriocarpum* Foslie. Additional data — Woelkerling 1993: 155. Box marked 's. med [= mixed with] *Litholepis* (?) jfr. præp. [= cf. slide] 1707']; **TRH A10-491.**
- Schimper; Chagos-øerne [= Chagos Archipelago]; Diego Garcia [Island]; [no habitat data]; 1898-1899; [no slides]; Tyske Exp. Valdivia [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box marked '*G. myriocarpon?*'. Grouped with A10-493 under one entry in Adey & Lebednik 1967: 25]; **TRH A10-492.**
- Schimper; Seychelles; Mahé; [no habitat data]; 1898-1899; slides 897-899; Exp. Valdivia [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box marked '*G. myriocarpon?*' and '897 = 98 usikker [= uncertain]' and 'og [= and] *G. fosliei?*'. Grouped with A10-492 under one entry in Adey & Lebednik 1967: 25, without mention of the Seychelles. Collection also contains '*Goniolithon fosliei*' according to box annotation]; **TRH A10-493.**
- [Weber-van Bosse]; [Indonesia]; Celebes, Dongala, Palos Bay; [no habitat data]; 18-19.vi.1899; one slide labelled with Siboga Expedition collection number 1288; Siboga Expedition, station 86, collection 1288; [no pfa]; [no notes]; **TRH A10-495.**
- [Weber-van Bosse]; [Indonesia]; Celebes, Dongala; [no habitat data]; 18-19.vi.1899; one slide labelled with Siboga Expedition collection number 763; Siboga Expedition, station 86, collection 763; pfa: Foslie 1904b, pl. 9, fig. 7, [and Printz 1929, pl. 46, fig.7]; [no notes]; **TRH A10-496.**
- [Weber-van Bosse]; [Indonesia]; Dammer Island, Kulewatti (Sollot) Bay; [no habitat data]; 9-11.i.1900; two slides, both labelled with Siboga Expedition collection number 650; Siboga Expedition, station 277, collection 650; [no pfa]; [Note: box marked 'obs. regl. konc. ca 800 μ [= regular conceptacles ca 800 μ observed]'. Collection not included in Adey & Lebednik 1967]; **TRH A10-500.**
- [Weber-van Bosse]; [Indonesia]; Haingsisi; [no habitat data]; 2.-5.ii.1900; two slides, both labelled with Siboga Expedition collection number 280; Siboga Expedition, station 303, collection 280; [no pfa]; [Note: box marked '*Gon. (fosliei?) myriocarpum*' and 'Anth.? [= antheridia?]' . Annotation slip in box marked '*G. myrioc.*' and 'S.E. 280' and 'Anth. [= antheridia]'. Note also mentions slide 763 belonging to A14-739, a collection labelled *Goniolithon fosliei*]; **TRH A10-501.**
- [Weber-van Bosse]; [Indonesia]; Makassar; [no habitat data]; v.1899; one slide labelled with Siboga Expedition collection number 1265; Siboga Expedition, station 71, collection 1265; [no pfa]; [Note: box marked '*Gon. fosliei* (ell. [= or] *myriocarpum?*)'. Slide marked '*G. fosliei* (ell. [= or] *myriocarp.*?)'. Box also marked 'brudstkr. [= fragments]'. Foslie 1904b: 46 placed material from Siboga Expedition, station 71 under *G. fosliei* rather than *G. myriocarpum* (p. 45) while in his herbarium, the collection is under *G. myriocarpum* rather than *G. fosliei* (in Drawer A14)]; **TRH A10-494.**
- [Weber-van Bosse]; [Indonesia]; [Island of] New Guinea, Adjahiriung; on *Archaeol. erythraeum*; 23.-25.viii.1899; [no slides]; Siboga Expedition, station 169, collection 932; [no pfa]; [no notes]; **TRH A10-499.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pearl Bank; [no habitat data]; 27.vi.1899; one slide labelled with Siboga Expedition collection number 265; Siboga Expedition, station 96, collection 265; [no pfa]; [no notes]; **TRH A10-497.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, [off] Pulu Tongkil; [no habitat data]; 6.vii.1899; one slide labelled with Siboga Expedition collection number 812; Siboga Expedition, station 109, collection 812; [no pfa]; [Note: box marked '*Gon. Myrioc.*? (+ 2-3 andre arter [= + 2-3 other species])']; **TRH A10-498.**

[Anon.]; [Gambier Islands]; Mangareva; [no habitat data]; [no date]; slide 1442; [ex] Mus. Paris [PC], [comm.] P. Hariot, iv.1907, number 23; [no pfa]; [Note: box marked '*Lithoph. onkodes?* *Gon. myriocarpum* f.?'. Mangareva is the main island in the Gambier Islands and is not part of the 'Tahiti Archipelago', the locality marked on the box. Adey & Lebednik 1967: 25 mistakenly list the collector as 'Hariot']; **TRH A10-502.**

***myriocarpum*, *Goniolithon* (f. *confragosa*)** [originally described as *Goniolithon myriocarpum* f. *confragosa* (Foslie 1907a: 14), where Foslie retained it in publication. In the protologue, the specific epithet is erroneously misspelled *myriocarpon*, but this was subsequently (Foslie 1909b: 9) corrected. Collections listed in Adey & Lebednik 1967: 25 under species without mention of forma]. **Lectotype:** TRH, A10-505 (see below).

Plate; [Egypt]; Røde hav [= Red Sea], (Sinai), [Gulf of Suez], El Tor; [no habitat data]; [no date]; slide 818; comm. Reinbold 1903; [no pfa]; [Note: box marked '*Gon. myriocarpum* (f. *confragosa*?)'. Adey & Lebednik 1967: 25 mistakenly list 'Reinbold' as the collector and '1903' as the collection date]; **TRH A10-503.**

[Anon.]; [Sudan]; Røde hav [= Red Sea], Suakin [now Sawakin]; on *Tubipora musica*; [no date]; slide 1553; comm. Harvey-Gibson, xi.1907, no. 3; [no pfa]; [Note: annotation slip in box marked 'Comm. Harvey Gibson xi.1907' and 'coralline on *Tubipora musica*.'. Adey & Lebednik 1967: 25 mistakenly list 'Gibson' as the collector and '1907' as the collecting date. The locality is incorrectly spelled 'Suakim' on the box]; **TRH A10-504.**

[Anon.]; [Tuamotu Archipelago]; Tearia; [no habitat data]; [no date]; slide 1445; [ex] Mus. Paris [PC], [comm.] P. Hariot, iv.1907, number 27; pfa: Printz 1929, pl. 46, fig. 8; [Note: **Lectotype** of *Goniolithon myriocarpum* f. *confragosa* Foslie. Additional data — Woelkerling 1993: 58, and Woelkerling 1998c: 292. According to Woelkerling (1998: 293) Tearia is part of the Tuamotu Archipelago and not part of the Tahiti Archipelago, the locality marked on the box and repeated in Adey & Lebednik 1967: 25 and Woelkerling 1993: 58. Adey & Lebednik 1967: 25 mistakenly list the collector as 'Hariot']; **TRH A10-505.**

notarisii*, *Goniolithon [originally described as *Melobesia notarisii* (Dufour 1861: 39) but subsequently (Foslie 1898a: 6) transferred without change in rank into *Choreonema* and then (Foslie 1900a: 21) into *Goniolithon*, and thereafter retained under that name by Foslie in publication]. **Lectotype:** PC, Thuret - Bornet Herbarium (Woelkerling, Penrose & Chamberlain 1993: 329, Woelkerling 1998c: 375).

Bornet; [France]; Antibes; [no habitat data]; xi.1858; slide 21; [no other collection data]; [no pfa]; [Note: collection consists only of 1 slide. Slide marked '*Choreonema notarisii* (Duf.)?' and 's. med *L. subtell.* if. notat [= mixed with *L. subtenellum* according to note]' and 'mgl. ekspl.?' [possibly a notation for 'meget gammelt eksemplar', meaning 'very old specimen']; **TRH A10-506.**

Chalon; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A10-507.**

Debray; [Algeria]; Algier Matifou; [no habitat data]; 21.iii.1890; [no slides]; Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], collection number 6; [no pfa]; [Note: box marked '*Lithoph. notarisii* Duf.?' and 'Debr. 1-19'. Grouped with A10-509 and a collection of *Goniolithon notarisii* (f. *notarisii*) (A10-523) under one entry in Adey & Lebednik 1967: 25]; **TRH A10-508.**

Debray; [Algeria]; Algier; [no habitat data]; [no date]; slide 46; Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], collection number 92; pfa: Printz 1929, pl. 45, fig. 3; [Note: box marked '*G. notarisii* vel n. sp. [= probably a new species]'. Grouped with A10-508 and a collection of *Goniolithon notarisii* (f. *notarisii*) (A10-523) under one entry in Adey & Lebednik 1967: 25]; **TRH A10-509.**

- Debray; [Algeria]; Cape Matison pres [= near] Algier; [no habitat data]; 21.iv.1890; slide 42; Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], collection number 89; [no pfa]; [Note: box also marked 'Afr. [= Africa]']; **TRH A10-510.**
- [Dufour]; [France]; Alpes-Maritime, Antibes; [no habitat data]; 30.i.1859; slide 19; [ex. Herb.] Bornet [PC]; [no pfa]; [Note: **Isolectotype** of *Melobesia notarisii*. Additional data — Woelkerling 1993: 158 (where specimen is identified as a syntype), and Woelkerling, Penrose & Chamberlain 1993: 328, and Athanasiadis 1997: 410, and Woelkerling 1998c: 375-378. Collection includes two small boxes dated '30.i.1859' with coralline fragments. Two photographs of the lectotype in PC (see Woelkerling 1998c: 375, and fig. 332) are housed in a separate envelope in Drawer A10]; **TRH A10-511.**
- Dufour; [Italy]; Corregliano; [no habitat data]; v.1859; slide 18; ex herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked '*Goniolithon notarisii*' and '*Melob. notarisii* Duf.'. Additional data on this specimen provided by Woelkerling 1998c: 377-378]; **TRH A10-512.**
- Howe; Puerto Rico; Aguadilla; on a pebble; 12.vi.1903; [no slides]; [Howe collection number] 2396; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '(steril [= sterile])' and 'og unge skorper anden art [= and young crusts of another species]']; **TRH A10-513.**
- Howe; Puerto Rico; Rincón; on rock just below water mark; 17.vi.1903; one slide labelled with Howe collection number 2523; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '*Goniol. sp. (notarisii)?* (steril [= sterile])']; **TRH A10-514.**
- Howe; Puerto Rico; San Juan; [no habitat data]; 2.vi.1903; one slide labelled with Howe collection number 2295a; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '*Goniol. sp. (notarisii)?*', but annotation slip in box marked 'ikke [= not] *notarisii*']; **TRH A10-515.**
- Howe; Puerto Rico; San Juan, Santurce; [no habitat data]; 20.v.1903; one slide labelled with Howe collection number 1994a; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '*Goniol. sp. (not.?)*' and 'prøve af --- stk. [= sample of --- piece]' [one word unreadable]. Slide marked '*Goniol. sp. (notarisii?) + accretum*' but the epithet '*notarisii*' subsequently underscored with a dotted line. Howe collection 1994b is listed under *Goniolithon accretum* (A10-479)]; **TRH A10-516.**
- Kuckuck; [Greece]; ostl. Mittelmeer [= the eastern Mediterranean], Lesbos [Island], Mytilene; [no habitat data]; 14.iv.1907; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A10-519 under one entry in Adey & Lebednik 1967: 25 who give date but omit mention 'Lesbos Island']; **TRH A10-518.**
- Kuckuck; [Greece]; Rhodos; [no habitat data]; 24.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles] 350-800µ']; **TRH A10-517.**
- Kuckuck; [Turkey]; ostl. Mittelmeer, Bucht von Piteh, Bucht von Budrum (Halicarnass) (Lil-leasien) [= the eastern Mediterranean, Bay of Piteh, Bay of Bodrum (Halicarnassus) (Asia Minor)]; [no habitat data]; 26.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A10-518 under one entry in Adey & Lebednik 1967: 25]; **TRH A10-519.**
- Sauvageau; Spain; Cadix; [no habitat data]; 28.iv.1903; slide 846; [no other collection data]; [no pfa]; [Note: slide marked '*G. notarisii*' but box marked 'ung [= young] *G. notarisii?* f. *mamillosum* s. med [= mixed with] *Lithoph. dentatum*'. *Goniolithon notarisii* f. *mamillosum* apparently has not been formally described]; **TRH A10-520.**
- Yendo; Japan; Misaki; [no habitat data]; viii.1900; [no slides]; Yendo collection number 758; [no pfa]; [Note: top of box marked 'Ej præp. ell. [= no slide or]' and '*G. notarisii*' while bottom of box marked 'Ej præp. ell. unders. [= no slide or examined]' and '*G. notarisii?* *pacificum?*']; **TRH A10-521.**
- [Anon.]; [France]; Villefranche s/m [= Villefranche-sur-Mer]; [no habitat data]; [no date]; [no slides]; comm. J. Chalon 1905; [no pfa]; [Note: box marked '*G. notarisii* partim [= in part]'. Collection rediscovered during present study and thus not included in Adey & Lebednik 1967]; **TRH A10-522.**

notarisii, Goniolithon (f. insidiosa) [originally described as *Lithophyllum insidiosum* (Solms-Laubach 1881:15), then (Foslie 1900i: 16) transferred without change in rank into *Goniolithon*, then (Foslie 1904d: 22) considered a heterotypic synonym of *Goniolithon notarisii*, and finally (Foslie 1906b: 15, 1909b: 5) resurrected as a distinct taxon but reduced to the rank of form and treated as *Goniolithon notarisii* f. *insidiosa*. Collections listed in Adey & Lebednik 1967: 25 under species without mention of forma]. **Lectotype: PC**, Thuret - Bornet Herbarium (Woelkerling 1998c: 315).

Debray; [Algeria]; St. Eugène, près Algier [= near Algiers]; [no habitat data]; ii.1888; slide 48; Debray collection number 77; pfa: Printz 1929, pl. 45, fig. 8; [Note: box marked 'sp. konc. [= sporangial conceptacles]'. Grouped with two collections (A10-508, A10-509) of *Goniolithon notarisii* f. *notarisii* under one entry in Adey & Lebednik 1967: 25]; **TRH A10-523**.

[Sauvageau]; [France]; [Pyrénées Orientales], Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; specimen number 7; [no pfa]; [Note: box marked 'cyst. konc. [= cystocarpic conceptacles]'. Specimens 1-6 and four unnumbered specimens from the same collection are in A10-530]; **TRH A10-524**.

Solms-Laubach; [Italy]; Naples; [no habitat data]; [no date]; slide 613; ex herb. Bornet [**PC**]; [no pfa]; [Note: one slide prepared from the **Lectotype** of *Lithophyllum insidiosum* Solms-Laubach. Additional data — Woelkerling 1993: 126, and Woelkerling 1998c: 315. Slide marked '*Lithophyllum insidiosum* Solms = *L. notarisii*'; **TRH A10-525**.

Solms-Laubach; [Italy]; Naples; [no habitat data]; [no date]; slide 880; [no other collection data]; [no pfa]; [Note: one slide prepared from material labelled *Lithophyllum insidiosum* and housed at the Zoological Station at Naples. Slide marked '*Lithophyllum insidiosum* Solms' and 'her kun [= here only] *L. incrt.* Neapel [= Naples] (af ekspl. Zool. St. type saml. [= from type gathering of specimen at Zoological Station])'. Additional data — Woelkerling 1993: 126 and Woelkerling 1998c: 315. Woelkerling (1993) considered the material to be syntype. It is now unclear whether the specimen in Naples is an isoelectotype or a paratype. Foslie's reference to type material in the Zoological Station was not published and thus does not constitute formal typification]; **TRH A10-526**.

notarisii, Goniolithon (f. pacifica). See listing below for **pacificum, Goniolithon**.

notarisii, Goniolithon (f. ptychoides) [originally described as *Goniolithon notarisii* f. *ptychoides* (Foslie 1904c: 5), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 25 under species without mention of forma]. **Lectotype: TRH**, A10-528 (see below).

Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; 'neben [= next to] *Nemoderma tingitana*'; 4.vi.1901; slide 845; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Goniolithon notarisii* f. *ptychoides* Foslie. Additional data — Woelkerling 1993: 182. Grouped with A10-529 under one entry in Adey & Lebednik 1967: 25]; **TRH A10-528**.

Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; 'neben [= next to] *Nemoderma tingitana*'; 1.v.1901; slide 841; [no other collection data]; [no pfa]; [Note: grouped with A10-528 under one entry in Adey & Lebednik 1967: 25]; **TRH A10-529**.

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 2 [f. *ptychoides*], and figs 4, 6-7 [f. *insidiosa*]; [Note: collection consists of specimens numbered 1, 2, 3, 4, 5, & 6, and four unnumbered specimens. Three specimens (numbered 2, 3, 4) are identified as f. *ptychoides* and two specimens (numbered 5, 6) are identified as f. *insidiosa*. A further specimen (numbered 7) identified as f. *insidiosa* listed on the box lid is in a separate box and was treated by Foslie as a separate collection (A10-524, listed under *Goniolithon notarisii* f. *insidiosa*). Specimen 1 is not identified to f. and box is marked 'nr. 1 overg. [= grading into number 1]'. Annotation slip in box marked 'mellomform *ptychoides-insidiosa* [= *ptychoides* grading into *insidiosa*]'; **TRH A10-530**.

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'récolte a la main [= gathered by hand], tildels paa [= partly on] *L. tortuosum*'; 5.i.1907; slide 1334; [no other collection data]; [no pfa]; [Note: box marked 'Gon. notarisii f. ptychoides? ell. [= or] *L. tort.*?' and '(største m/ [= largest with] *Lithoph. tort.* og [= and] *L. lenormandii*)' and 'præp. 1334 af mindste stk. [= slide 1334 of smallest piece]']; **TRH A10-531**.

orotavicum, Goniolithon [originally described as *Goniolithon orotavicum* (Foslie 1906a: 20), where Foslie retained it in publication]. **Holotype**: divided between **PC**, General Herbarium, and **TRH** (A10-532) (Woelkerling 1998c: 293).

Sauvageau; Kanariske øer [= Canary Islands]; (Tenerife), Puerto Orotava; 'litoral reg. [= littoral region]'; xii.1904-ii.1905; slides 1014-1015, 1055; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 9; [Note: **Part of holotype** of *Goniolithon orotavicum* Foslie. Additional data — Woelkerling 1993: 165 & Woelkerling 1998c: 293. Box marked 'Præp. 1055 af brudt. i æske [= slide 1055 of fragments in box]'. Annotation slip in box marked 'Algues marines de Canaries' and '*Goniolithon orotavicum* Fosl. (n. sp. [= new species])']; **TRH A10-532**.

pacificum, Goniolithon [originally described as *Goniolithon notarisii* f. *pacifica* (Foslie 1907a:12) but subsequently (Foslie 1908f: 6) raised to the rank of species, namely *Goniolithon pacificum*]. **Lectotype**: **TRH**, A10-553 (see below).

Yendo; Japan; Hinga; [no habitat data]; viii.1900; slide 690; Yendo collection number 783; pfa: Printz 1929, pl. 45, fig. 16; [Note: **Lectotype** of *Goniolithon notarisii* f. *pacifica*. Additional data — Woelkerling 1993: 166. Top of box marked '*G. pacificum*'. Bottom of box marked '*G. notarisii* f. *pacifica*' and '*G. pacificum*' and 'obs. brudflade ekspl. struktur tydelig [= observed surface of fracture specimen, structure distinct]'. Slide marked '*G. notarisii* f. *pacifica*'. Collection includes a small box marked 'sp. konc. [= sporangial conceptacles]' and 'Yendo nr. 783']; **TRH A10-533**.

Yendo; Japan; Misaki; [no habitat data]; iv.1900; slide 545; Yendo collection number 507 [box marked 'nr 507 (508?)']; [no pfa]; [Note: box marked '*G. notarisii* f. *propinqua*' but slide marked '*Goniolithon notarisii* f. *propinqua* *G. pacifica*']; **TRH A10-527**.

Yendo; Japan; Misaki; [no habitat data]; iv.1903; slide 832; [no other collection data]; [no pfa]; [Note: box marked '*Gon. notarisii* f. *pacifica*' and '*G. pacificum* (?)']; **TRH A10-534**.

propinquum, Goniolithon (f. solubilis) [originally described as *Goniolithon solubile* (Foslie 1907b: 21) but subsequently (Foslie 1908f: 4) reduced in rank and treated as *Goniolithon propinquum* f. *solubilis* but not mentioned in Foslie's subsequent publications. Additional collections occur in Drawer A11. Collections listed in Adey & Lebednik 1967: 26 under *Goniolithon solubile*]. **Lectotype**: **TRH**, A10-537 (see below).

Howe; Jamaica; 8-11 miles east of Montego Bay; on living coral in 4 dm (decimetres) of water; 12.i.1907; slide 1462; [Howe collection number] 4999; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box lid also marked '*Gon. propinquum* f. *solubilis*' and '(ej typisk [= not typical])'. Other collections of *Goniolithon propinquum* are in Drawer A11]; **TRH A10-536**.

Howe; Puerto Rico; Culebra; on coral near low water mark; 7.iii.1906; slide 1088 and two newer slides prepared by G.W. Maneveldt; [Howe collection number] 4375; pfa: Printz 1929, pl. 45, fig. 14; [Note: **Lectotype** of *Goniolithon solubile* Foslie & Howe in Foslie. Additional data — Woelkerling 1987b: 147, Woelkerling 1993: 203, and Mateo-Cid & Pedroche 2004: 183. Box marked 'New York Bot. Garden 4375' **[NY]** and '*Gon. solubile* Fosl. & Howe delvis over [= partly over] *Lithoph. pachydermum*'. Annotation slip in box printed with 'New York Botanical Garden' and 'North American Marine Algae' also has hand-

written collection data and also is marked 'On coral near low water mark, brilliant purplish-red when living, conceptacles large with long apiculum'; **TRH A10-537**.

scabridum, Goniolithon [originally described as *Goniolithon scabridum* (Foslie 1907a: 13), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A10-535 (see below).

Jadin; Réunion; [no other locality data]; [no habitat data]; iv.1890; slides 1424, 1451; comm. Jadin (Montpellier), number 542 '(delvis [= in part])'; pfa: Printz 1929, pl. 45, fig. 17; [Note: **Holotype** of *Goniolithon scabridum* Foslie. Additional data — Woelkerling 1993: 197. Box marked '(542a)' and '*G. notarisii?*'. Jadin almost certainly is also the collector (see Lamy & Woelkerling 1998c: 212)]; **TRH A10-535**.

solubile, *Goniolithon*. See listing above, and in Drawer A11, under **propinquum Goniolithon (f. solubilis)**.

udoteae, Goniolithon [originally described as *Goniolithon udoteae* (Foslie 1901a: 21), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A10-538 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Little Princess [Bay]; on *Udotea flabellata*; i.-iii.1892; slide 367; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 1; [Note: **Holotype** of *Goniolithon udoteae* Foslie. Additional data — Woelkerling & Campbell 1992: 78, and Woelkerling 1993: 230. Box marked 'Algae marinae ex insulis Danicis India occidentalis' and '*Goniolithon udoteae* Fosl. og [= and] *Lithoph. prototypum* (?) paa [= on] *Udotea flabellata*'; **TRH A10-538**.

Howe; Jamaica; Montego Bay; on stipe of *Avrainvillea*; 5.i.1907; slide 1410; [Howe collection number] 4797; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box lid also marked 'præp. 1410 af løst stk. [= slide 1410 of loose piece]']; **TRH A10-539**.

versabile, Goniolithon [originally described as *Goniolithon versabile* (Foslie 1907a: 15), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A10-540 (see below).

Petersen, J.; Japan; Amakusa, nær [= near] Nagasaki; [no habitat data]; 9.vi.1882; slides 405, 1450; ex herb. Kjellman **[UPS]**; pfa: Printz 1929, pl. 45, figs 25-26; [Note: **Holotype** of *Goniolithon versabile* Foslie. Additional data — Woelkerling 1993: 236. Collection date on boxes and slide 1450 recorded as '9.vi.1882' but on slide 405, date is recorded as '19.vi.1882' (probably an error). Foslie placed a fragment with sporangial conceptacles in a separate box. This box has now been united with the main collection in one container and is considered to be part of the holotype collection]; **TRH A10-540**.

Case A, Drawer 11

During the present study, a photo showing plants of '*Melobesia mamillaris*' depicted on plate 41 in Harvey 1849 was found in Drawer A11. It has been placed in an envelope in Drawer A11 and marked 'Photo of part of plate 49 in Harvey W.H. 1849, *Nereis Australis*. Part II, pp. 65-124, pls 26-50. Reeve: London'.

brassica-florida, Goniolithon [originally described as *Melobesia brassica-florida* (Harvey 1849a: 110) but then (Areschoug 1852: 523) transferred without change in rank into *Lithothamnion* and then (Foslie 1898b: 10) into *Goniolithon*, where Foslie retained it in publication]. **Lectotype: BM**, algal box collection 78 (Woelkerling 1993: 43).

[Anon.]; [South Africa]; Algoa Bay; [no habitat data]; [no date]; slide 337; ex Herb. British Mus. [BM], Foslie number 11, 1899; pfa: Printz 1929, pl. 47, fig. 9; [Note: **Lectotype fragments** of *Melobesia brassica-florida* Harvey. Additional data — Woelkerling 1993: 43, and Verheij 1994: 113. Box marked '(Herb. Bowerbank?)' and 'fotografi [= photography]' and '*Goniolithon br. fl.*'. Slide marked '*Lithothamnion brassica florida* (Harv.)' and '*Melob. brass. fl.*'. Adey & Lebednik 1967: 27 include collection under *Goniolithon mamillosum* without reference to *Goniolithon brassica-florida* and list country of collection as 'Brazil']; **TRH A11-541.**

mamillare, Goniolithon [originally described as *Melobesia mamillaris* (Harvey 1849a: 109) but then (Areschoug 1852: 521) transferred without change in rank into *Lithothamnion* (as *L. mamillare*) and then (Foslie 1898b: 9) into *Goniolithon*, where Foslie subsequently retained it in publication]. **Type:** not designated (see Woelkerling 1993: 144). **TRH** has two syntypes (A11-544, A11-545).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; [no habitat data]; i.-iii.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. mamillare* (delvis [= in part])'. Adey & Lebednik 1967: 26 mistakenly list the collection locality as 'Cruxbay, St. Jan']; **TRH A11-543.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; [no habitat data]; [no date]; slide 547; [no other collection data]; pfa on box incorrect — see Note; [Note: box mistakenly refers to the specimen depicted in Printz 1929, pl. 47, fig. 16. Locality data in Printz figure legend incorrectly given as 'The West Indies, Rackam's Cay near Kingston Jamaica'. That locality data pertains to A11-546. Adey & Lebednik 1967: 26 mistakenly list the collection locality as 'Cruxbay, St. Jan']; **TRH A11-542.**

[Darwin]; [Brazil]; [Bahia]; [no habitat data]; [no date]; slide 29; no. 3854 [Darwin collection number], ex herb. T.C. Dublin no. 854 [TCD]; [no pfa]; [Note: **Syntype** of *Melobesia mamillaris* Harvey. Additional data — Woelkerling 1993: 144. Slide marked 'no. 854 (c: 3854) Ex herb. T.C.D'. Adey & Lebednik 1967: 25 also mistakenly list this collection under '*Goniolithon mamillare*' in Drawer A10 (no material is present — see comment under entry for *mamillare* in Drawer A10 above. Box marked '*L. mamillare* Harv.']; **TRH A11-544.**

Darwin; Brasilien [= Brazil]; Bahia; [no habitat data]; [no date]; [no slides]; no. 3855 [Darwin collection number]; [no pfa]; [Note: **Syntype** of *Melobesia mamillaris* Harvey. Additional data — Woelkerling 1993: 144. Box marked '*Melobesia mamillaris* Harv.']; **TRH A11-545.**

Howe; Jamaica; Rackam's Cay, near Kingston Harbor; on coral pebble in 3 dm (decimetres) of water; 20.xii.1906; slide 1384; [Howe collection number] 4592; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also marked 'Skorp cf. del (præp. 1384) ikke kalkalge. Liten skorpe med korte grene: *Gon. mamillare* forma. [= crust cf. part (slide 1384) not a calcareous alga. Small crust with short branch: *Gon. mamillare* forma]'. Slide marked 'N.Y.B.G. 4592' and 'ikke kalkalge [= not a calcareous alga]'. Habitat data in box on annotation slip from Howe, which also is marked 'brilliant brick-red when living'. Grouped with a collection of *Goniolithon mamillare* f. *occidentalis* (A11-549) under one entry in Adey & Lebednik 1967: 26]; **TRH A11-546.**

[Anon.]; [South Africa]; Algoa Bay, Port Elizabeth; [no habitat data]; [no date]; slide 338; ex Herb. British Mus. [BM], number 12, 1899; [no pfa]; [Note: annotation slip marked 'tømte konc. (smaa) [= empty conceptacles (small)]'. Annotation slip in box written by Foslie

marked 'probably not from Algoa Bay, but from Bahia'. Bahia is a locality in Brazil. Slide marked 'Bahia' and 'Algoa Bay?'; **TRH A11-547**.

mamillare, *Goniolithon* (f. *litoralis*). See listing in Drawer A14.

mamillare, *Goniolithon* (f. *occidentalis*) [originally described as *Goniolithon mamillare* f. *occidentalis* (Foslie 1906b: 15), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 26 under species without mention of forma]. **Lectotype: TRH, A11-548** (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor [= outside] Cruxbay [= Cruz Bay]; collection depth: ca 15 fathoms; 8.iii.1906; slides 1224-1225, 1252; Børgesen collection number 1879; [no pfa]; [Note: **Lectotype** of *Goniolithon mamillare* f. *occidentalis* Foslie. Additional data — Woelkerling 1993: 161 & Woelkerling 1998c: 292. Box marked '*Gon. mamillare* f. *occidentalis* delvis [= in part], og [= and] *Lithoth. occidentale*'. Adey & Lebednik 1967: 26 mistakenly give the Børgesen collection number as '1879']; **TRH A11-548**.

Howe; Jamaica; Rackam's Cay, near Kingston Harbor; on fragments of coral, etc.; 20.xii.1906; slide 1382; [Howe collection number] 4590; pfa: Printz 1929, pl. 47, fig. 17; [Note: box lid marked 'N.Y.B.G. nr. 4590' **[NY]**. Habitat data in box on Howe annotation slip. Grouped with a collection of *Goniolithon mamillare* (A11-546) under one entry in Adey & Lebednik 1967: 26]; **TRH A11-549**.

mamill (?) , *Goniolithon* [not listed in Adey & Lebednik 1967. For the following collections, it is unclear whether '*mamill.*' denotes *Goniolithon mamillare* or *Goniolithon mamillosum*, both of which are housed in Drawer A11, but see Notes for each collection].

[Anon.]; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln bei Pola [= Brioni Islands near Pola]; [no habitat data]; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. notarisii mamill?*' Listed in Adey & Lebednik 1967: 27 under *Goniolithon mamillosum* with Kuckuck given as collector, but without evidence. It is more likely that Foslie considered the collection to belong to *Goniolithon mamillosum* (which is well represented by Mediterranean specimens in his herbarium) than to *G. mamillare* (otherwise represented in his herbarium only by collections from the Caribbean and Brazil)]; **TRH A11-550**.

[Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; [no date]; [no slides]; comm. S. Miliarakis; [no pfa]; [Note: box marked '*Gon. mamill (?)*'. Although listed in Adey & Lebednik 1967: 26 under *Goniolithon mamillare* (where 'Miliarakis' is mistakenly listed as collector), it is more likely that Foslie considered the collection to belong to *Goniolithon mamillosum* (which is well represented by Mediterranean specimens in his herbarium) than to *G. mamillare* (otherwise represented in his herbarium only by collections from the Caribbean and Brazil)]; **TRH A11-551**.

[Anon.]; [Tunisia]; Loe de Tunis; [no habitat data]; 11.iv.1896; [no slides]; ex herb. F. Debray **[AL]**, according to Stafleu & Mennega 1998: 130], number 56; [no pfa]; [Note: box marked '*G. brassica-florida? mamill.?*'. Listed in Adey & Lebednik 1967: 27 under *Goniolithon mamillosum* with 'Debray' mistakenly listed as collector. It is more likely that Foslie considered the collection to belong to *Goniolithon mamillosum* (which is well represented by Mediterranean specimens in his herbarium) than to *G. mamillare* (otherwise represented in his herbarium only by collections from the Caribbean and Brazil)]; **TRH A11-552**.

mamillosum, *Goniolithon* [originally described as *Lithothamnion mamillosum* (Hauck 1883a: 272) but subsequently (Foslie 1900a: 28) transferred without change in rank into *Goniolithon*, where Foslie retained it in publication. The name *Lithothamnion mamillosum* Hauck (1883a) is based on a non-fossil type and thus has priority over *L. mamillosum*

Gümbel (1871: 41) which is based on a fossil type (see ICBN Art. 11.7, Note 4)]. **Lectotype:** L, 943.8-115 (Woelkerling & Verheij 1995: 64).

- Hauck; [Croatia]; [Adriatic Sea], Ins. Cherso [now Cres Island]; [no habitat data]; 1878; slides 5, 25 [missing]; ex herb. Thuret - Bornet [**PC**]; [no pfa]; [Note: material housed in three small boxes labelled '(a)', '(b)' and '(c)' that reside in a larger box. Each small box also has the name '*L. ramosissimum*' and boxes (a) & (b) also are marked '*G. brassica florida*'. All boxes also marked '*L. racemus* Aresch.'. Slide 5 marked 'tegning [= drawing]' and '*L. ramosiss. = G. brassica-florida*' and '*L. racemus* Aresch.']; **TRH A11-553.**
- Hauck; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; two slides, both numbered 21; ex. Herb. Hauck [**L**]; [no pfa]; [Note: **Possible isolectotype** of *Lithothamnion mamillosum* Hauck. Additional data — Woelkerling & Verheij 1995: 64. Box marked '*L. mamillosum = G. brassica-florida*'. Slides marked '*L. mamillosum* Hauck=*L. hauckii* Rothpl.= *G. brassica-florida*' and 'ex. herb. Hauck']; **TRH A11-554.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske-øer [= Brioni Islands]; collection depth: 25-30 metres; 11.vi.1895; slide 610; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida?* mamill.' but slide marked '*G. brassica-florida*' (not crossed out). Box also marked 'vistnok ~~anth.~~? cyst.? [= most likely cystocarpic? (with antheridial crossed out)]'. Locality on box is numbered '6'. Grouped with A11-556, A11-557 and A11-558 under one entry in Adey & Lebednik 1967: 27. Adey & Lebednik 1967: 27 record five 1895 Kuckuck *mamillosum* collections from the Brioni Islands but only four have been found. Adey & Lebednik 1967: 25 also mistakenly list this collection under '*Goniolithon mamillare*' in Drawer A10 (no material is present — see comment under entry for *mamillare* in Drawer A10 above)]; **TRH A11-555.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwischen [= between] Girolamo und [= and] Punta Rancon; collection depth: 15-30 metres; 11.vi.1895; slide 779; [no other collection data]; pfa: Foslie 1904d, pl. 2, fig. 19, and Printz 1929, pl. 47, fig. 10; [Note: box marked '*G. brassica-florida mamill.*' and 'Ingen sporer [= without spores]'. Locality on box is numbered '7'. Slide marked 'præp. af skorpe med konc. paa *Serpula*-rør [= slide of crust with conceptacle on *Serpula*-pipe]'. Grouped with A11-555, A11-556 and A11-557 under one entry in Adey & Lebednik 1967: 27 Adey & Lebednik 1967: 27 record five 1895 Kuckuck *mamillosum* collections from the Brioni Islands but only four have been found]; **TRH A11-558.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln, zw. St. Giovanni und den Leuchtturm [= Brioni Islands between St. Giovanni and the lighthouse], Pola; collection depth: 24-38 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida mamill.*' and 's. med [= mixed with] *L. frutic. f. soluta*'. Locality on box is numbered '1a'. Grouped with A11-555, A11-556 and A11-558 under one entry in Adey & Lebednik 1967: 27. Adey & Lebednik 1967: 27 record five 1895 Kuckuck *mamillosum* collections from the Brioni Islands but only four have been found]; **TRH A11-557.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln, zwischen Torando u. Gaza [= Brioni Islands between Torando and Gaza]; collection depth: 16-25 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida mamill.*'. Locality on box is numbered '1d'. Grouped with A11-555, A11-557 and A11-558 under one entry in Adey & Lebednik 1967: 27. Adey & Lebednik 1967: 27 record five 1895 Kuckuck *mamillosum* collections from the Brioni Islands but only four have been found.]; **TRH A11-556.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; 30.v.1895; slide 630; [no other collection data]; [no pfa]; [Note: box marked '*Goniolithon brassica-florida mamill.* (Harv.) Fosl.'. Grouped with A11-560 and A11-588 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-559.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; 30.v.1895; slide 634; [no other collection data]; [no pfa]; [Note: box marked '*Goniolithon*

- brassica-florida mamillosum* (Harv.) Fosl.' and 'præp. 634 af største ekspl. [= slide 634 of largest specimen]'. Slide marked '*G. brassica-florida*' (name not crossed out). Grouped with A11-559 and A11-588 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-560**. Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; 'paa grundt vand [= in shallow water]'; 30.v.1895; slide 615; [no other collection data]; [no pfa]; [Note: top of box marked '*L. philippii* fere [= nearly] f. *typica*' but bottom of box marked '*Gon. mamillosum?* paa anden art [= on another species]'. Top of box also marked 'cyst. konc. [= cystocarpic conceptacles]'. Grouped with A11-559 and A11-560 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-588**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], zwischen [= between] Klein Asino & St. Andrea; collection depth: 23-30 metres; 4.xi.1899; slide 637; [no other collection data]; [no pfa]; [Note: box marked '*Gon. notarisii-mamill.?*' and 'præp. [= slide] 637'. Locality on box is numbered '3', but locality number and data on slide ('zwischen [= between] Astorga und [= and] Due Sorelle-Rrioni' and '4') differ from that on box]; **TRH A11-561**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Vor Orsera zwischen Eiland Calle und Eil. Galiner [= in front of Orsera between Isle Calle and Isle Galiner]; collection depth: ca 20 metres; 17.xii.1896; slide 636; [no other collection data]; [no pfa]; [Note: box marked '*Gon. notarisii mamill.?*'. Locality on box is numbered '4']; **TRH A11-562**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Quieto, Vor spitze [= in front of] Del Dente [= point]; collection depth: 15-23 metres; 14.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida mamill.*'. Locality on box is numbered '4']; **TRH A11-563**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; winter 1896-1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 47, fig. 13; [Note: grouped with A11-569, A11-571 and A11-572 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-570**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; xii.1896; slides 608-609; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida mamill.*' but slides marked '*G. brassica-florida*'. Grouped with A11-569, A11-570 and A11-572) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-571**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; winter 1896-1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A11-569, A11-570 and A11-571) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-572**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Bagnole [Island]; [no habitat data]; 4.vi.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 47, fig. 14; [Note: box annotated '*G. brassica-florida mamillosum*'. Locality on box is numbered '1a'. Grouped with A11-565, A11-566, A11-567 and A11-568) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-564**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], südl. der [= south of] Punta Crocaban und nordl. [= and north of] Punta Barabiza; collection depth: 22-27 metres; 13.v.1895; slide 780; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida mamill.*'. Locality on box is numbered '1'. Slide marked '1' and '*G. brassica florida*, ung [= young]'. Grouped with A11-564, A11-565, A11-566 and A11-567 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-568**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], St. Catarina, nordspitze [= north point]; [no habitat data]; 6.vi.1895; [no slides]; [no other collection data]; pfa: Fosl. 1904d, pl. 3, fig. 18 [labelled *Goniolithon brassica-florida*]; [Note: box marked '*G. brassica-florida mamill.*' and 'pl. 3, fig. 18 (2 den halvdel af den afbildede ekspl.) [= pl. 3, fig. 18 (the second half of the pictured specimen)]'. Locality on box is numbered '2a'. Grouped with A11-564, A11-566, A11-567 and A11-568 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-565**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], südlich [= southern] St. Catarina; collection depth: 6-7 metres; 24.v.1895; slide 631; [no other collection data];

- [no pfa]; [Note: box annotated '*G. brassica-florida mamill.*' and 'præp. 631 største ekspl. [= slide 631 largest specimen]'. Locality on box is numbered '3'. Slide marked '3' and '*G. brassica florida*' [name not crossed out]. Grouped with A11-564, A11-565, A11-567 and A11-568 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-566.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], nahe bei (vestlich) [= near to and west of] St. Catarina; collection depth: 10 metres; 6.v.1895; slide 771; [no other collection data]; [no pfa]; [Note: collection filed by Foslie under *Goniolithon mamillosum* but box marked '*G. brassica-florida?*'. Locality on box is numbered '2'. Slide marked '2' and '*G. brassica florida*, ung [= young]'. Grouped with A11-564, A11-565, A11-566 and A11-568 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-567.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], vor [= in front of] St. Catarina; collection depth: 20-27 metres, on *Lithothamnion fruticulosum*; 25.xi.1896; slide 633 [missing]; [no other collection data]; pfa: Printz 1929, pl. 47, fig. 12; [Note: box marked '*G. brassica-florida mamill.*' and 'obs. konc. kun [= only conceptacles observed] ca. 600 μ ' and 'paa [= on] *L. frutic.* = præp. [= slide] 633'. Grouped with A11-570, A11-571 and A11-572 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-569.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Val di Bora; [no habitat data]; 10.xi.1899; slide 778; [no other collection data]; pfa: Foslie 1904d, pl. 3, fig. 21, and Printz 1929, pl. 47, fig. 11; [Note: box marked '*G. brassica-florida mamill.*' and 'af Taf. 2, fig. 20 som ret. = præp. 778 [= of pl. 2, fig. 20 which was returned = slide 778]'. Foslie 1904d pl. 2, fig. 20 pertains to a collection of *Lithothamnion calcareum* f. *compressa* (C1-2862) from the Republic of Ireland. Collection date is '10.xi.1899' on box but '4.xi.1889' on slide. Slide also marked '8']; **TRH A11-573.**
- Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; collection depth: 17-33 metres for '1)' & 15-20 metres for '3a)'; 14.vi.1901; slide 797; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida? mamill.*' and 'med [= with] cystocarpier [= cystocarps] (sammenv. med [= coalesced with] *L. calc.* [= and] *L. incrust.*)']; **TRH A11-574.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; slides 1119-1120; [no other collection data]; [no pfa]; [Note: annotations on box indicate that slide 1119 was made from the largest specimen which is identified as '*Gon. mamillosum*' while slide 1120 was made from the smallest specimen which is suggested with a question mark to be a mixture of '*Lithoph. incrustans* and *Lithoth. sonderi*'. Grouped with A11-576 under one entry in Adey & Lebednik 1967: 27, who (p. 25) also mistakenly list this collection under '*Goniolithon mamillare*' in Drawer A10 (no material is present — see comment under entry for *mamillare* in Drawer A10 above)]; **TRH A11-575.**
- Sauvageau; [France]; Banyuls (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Gon. mamillosum* (delvis [= partly] *notarisi?*)' and '(med [= with] *Lithoph. incrust.* & *Lith. sonderi*)'. Grouped with A11-575 under one entry in Adey & Lebednik 1967: 27]; **TRH A11-576.**
- Weber-van Bosse; [Sénégal]; Cape Verde [= Cape Verde], Cape Blanco; [no habitat data]; 29.xii.1895; slide 868; [no other collection data]; [no pfa]; [Note: box marked '*Gon. mamillosum* f.?' and 'Cap Blanco (Branco?)'. It is uncertain whether Cape Blanco refers to a part of Cape Verde or to Cap Blanc in Mauritiana. Grouped with a collection of *G. mamillosum* f. *microcarpa* (A11-584) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-577.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'maaske ej største stk. [= maybe not the largest piece]' and 'cyst. konc. [= cystocarpic conceptacles]']; **TRH A11-578.**
- [Anon.]; Adriaterhavet [= Adriatic Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. brassica-florida mamill.*' and 'fra en gammel samling [= from an old collection]']; **TRH A11-579.**

[Anon.]; Ascension [Island]; nær [= near] St. Helena; leeward side in rocky pools; [no date]; slide 863; comm. E. M. Holmes; [no pfa]; [Note: box marked 'G. brass fl.?']. Annotation slip in box marked 'L. mamill. near falsellum scr. Holmes'; **TRH A11-580.**

[Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot vi.1906, number 5 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked 'Gon. mamillosum saltem pro parte [= at least in part]' and '(mindste ekspl. konc. [= smallest specimen (with) conceptacles)]'. Adey & Lebednik mistakenly list 'Hariot' as the collector and 'vi.1906' as the collection date]; **TRH A11-582.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; slide 1149; [ex] Science & Art Mus. [**DBN**], no. 80 (delvis [= in part]); [no pfa]; [Note: box marked '(s. med [= mixed with] L. dentatum)' and 'L. hauckii = mamill. = G. brassica-florida'. Another part of collection 80 is filed under *Lithophyllum dentatum* (A24-1427). Filed under *Goniolithon mamillosum* in Adey & Lebednik 1967: 27 without mention of slide]; **TRH A11-581.**

mamillosum, Goniolithon (f. microcarpa) [originally described as *Goniolithon mamillosum* f. *microcarpa* (Foslie 1907b: 24), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 27 under species without mention of forma]. **Lectotype:** TRH, A11-583 (see below).

Vanhöffen; [Cape Verde]; St. Vincent; [no habitat data]; ix.1901; slides 918, 920; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: **Lectotype** of *Goniolithon mamillosum* f. *microcarpa* Foslie. Additional data — Woelkerling 1993: 149. Specimens in the lectotype collection are housed in a large box containing three small boxes and the two slides]; **TRH A11-583.**

Weber-van Bosse; [Sénégal]; Cape Verde [= Cape Verde], Cape Blanco; [no habitat data]; 29.xii.1895; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked 'Cap Blanco (C. Branco?)' and 'Gon. mamillosum f. microcarpa (og [= and] *Lith. ectocarpon*)'. Box also marked 'Præp. af cystoc. (og præp. 869 af *Lith. ectocarpon* særskilt æske) [= slide of *cystoc.* (and slide 869 of *Lith. ectocarpon* distinct box)]'. Slide 869 is in the box housing the lectotype of *Lithothamnion ectocarpon* in Drawer C18 (C18-3335). Unnumbered slide is marked 'Gon. mamillosum f. microcarpa og [= and] *cystoc.*'. It is uncertain whether Cape Blanco refers to a part of Cape Verde or to Cap Blanc in Mauritania. Grouped with a collection of *G. mamillosum* (A11-577) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-584.**

notarisii, Goniolithon (f. propinqua). See listing below for **propinquum, Goniolithon.**

propinquum, Goniolithon [originally described as *Goniolithon notarisii* f. *propinqua* (Foslie 1900a: 21) but subsequently (Foslie 1908f: 4) raised to the rank of species, namely *Goniolithon propinquum*, where Foslie retained it in publication]. **Lectotype:** TRH, A11-585 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; [no habitat data]; 1892; slide 534; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Goniolithon notarisii* f. *propinqua* Foslie. Additional data — Woelkerling 1993: 177. The two boxes comprising the lectotype were listed separately in Adey & Lebednik 1967: 27. Annotation slip in one box marked 's. med 2-3 andre arter [= mixed with 2-3 other species]'. Box marked 'G. notarisii f.-propinqua']; **TRH A11-585.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St Croix, Christiansteds havn [= the harbour of Christiansted]; [no habitat data]; 1905-1906; slide 1193; [no other collection data]; [no pfa]; [Note: box marked 'Gon. notarisii propinquum' and 's. med [= mixed with] *Lithoph. daedal.*'. Full locality information not given in Adey & Lebednik 1967: 27]; **TRH A11-590.**

- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Cruxbay [= Cruz Bay]; 'I fjæren [= in the tidal zone]'; 24.iii.1906; slide 1255; Børgesen [collection number] 2196 '(delvis [= in part])'; [no pfa]; [Note: box marked '(delvis over [= partly over]) *Lithoph. pachydermum* desuten [= in addition] *Lithoph. in-term.*']; **TRH A11-589.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies now the U.S. Virgin Islands]; St. Thomas, in portu [= in the harbour]; [no habitat data]; [no date]; slide 532; [no other collection data]; [no pfa]; [Note: box marked '*G. notarisii* f. *propinqua*']. Annotation slip on box marked '(og *L. decipiens* forma – brudstk. under denne [= and *L. decipiens* forma – fragments under this]'); **TRH A11-591.**
- Hooper [probably J. Hooper]; [United States]; Florida, Key West; [no habitat data]; [no date]; slide 24; Farlow number 82; [no pfa]; [Note: box marked '*Lithospora notarisii*, *Chor. notarisii*' and '*propinquum*'. Adey & Lebednik 1967: 27 mistakenly list the collector as 'Hooper']; **TRH A11-592.**
- Howe; Bahamas; Atwood (Sanana) Cay; on rocks in 3 dm (decimetres) of water (low tide); 3.xii.1907; slide 1677; [Howe collection number] 5244; [no pfa]; [Note: box marked 'N.Y.B.G. 5244' [NY] and '*Gon. propinquum* f. og lidet stk. af [= and small piece of] *Gon. dispalatum*']; **TRH A11-599.**
- Howe; Bahamas; Cat Island, near southwest point; on corals in 3 dm (decimetres) of water, low tide; 23.xi.1907; slides 1672 and 1714; [Howe collection number] 5089; pfa: Printz 1929, pl. 45, fig. 11; [Note: box marked 'N.Y.B.G. 5089' [NY] and '*Gon. propinquum* f. *typica* (præp. 1672) og (nu adskilt). *Gon. prop.* f. *solubilis*? – lille stk. (præp. 1714) maaske ikke 2 former. Præp. 1714 af høye konc. [= *Gon. propinquum* f. *typica* (slide 1672) and (now separated). *Gon. prop.* f. *solubilis*? – small piece (slide 1714) maybe not two forms. Slide 1714 of tall conceptacles']. Habitat data in box on Howe annotation slip]; **TRH A11-593.**
- Howe; [Bahamas]; Great Bahama, Eight Mile Rock; at low water mark; 8.ii.1905; [one slide labelled with Howe collection number 3766 with the number 992 crossed out]; [no other collection data]; [no pfa]; [Note: box marked 'New York. Bot. Garden' [NY]. Collection includes a small box (marked 992) with fragments from which the slide was prepared. Box marked '*G. notarisii* f. *propinqua*'. Habitat data in box on Howe annotation slip]; **TRH A11-586.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], southeast point; on pebble in 3 dm (decimetres) of water, on reef; 10.xii.1907; slide 1698; [Howe collection number] 5493; [no pfa]; [note: box marked 'N.Y.B.G. nr. 5493' [NY] '*Gon propinquum* f.'. Habitat data in box on Howe annotation slip]; **TRH A11-594.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], 10 miles west of Abraham Bay; on coral pebble; 5.xii.1907; slide 1684; [Howe collection number] 5334; [no pfa]; [Note: box marked 'N.Y.B.G. 5334' [NY] and '*Gon. propinquum* f.'. Habitat data in box on Howe annotation slip. Grouped with A11-596 and A11-597 under one entry in Adey & Lebednik 1967: 28]; **TRH A11-595.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], 10 miles west of Abraham Bay; on corals, etc., in 3 dm (decimetres) of water; 5.xii.1907; slide 1685; [Howe collection number] 5335; [no pfa]; [Note: box marked 'N.Y.B.G. 5335' [NY] and '*Gon. propinquum* f.'. Habitat data in box on Howe annotation slip. Grouped with A11-595 and A11-597 under one entry in Adey & Lebednik 1967: 28]; **TRH A11-596.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], 10 miles west of Abraham Bay; on corals in 3-6 dm (decimetres) of water (low tide); 5.xii.1907; slide 1687; [Howe collection number] 5337; [no pfa]; [Note: box lid marked 'N.Y.B.G. 5337' [NY]. Habitat data in box on Howe annotation slip. Grouped with A11-595 and A11-596 under one entry in Adey & Lebednik 1967: 28]; **TRH A11-597.**
- Howe; Bahamas; Rose Island, near New Providence; on stones in 6-15 dm (decimetres) of water, low tide; 27.i.1905; one slide labelled with Howe collection number 3411 with the number 986 crossed out; [no other collection data]; [no pfa]; [Note: box marked 'New

- York Bot. Garden' [NY] and '*G. ~~notarisii~~ f. propinquum?*'. Habitat data in box on Howe annotation slip]; **TRH A11-598.**
- Howe; Jamaica; Montego Bay; littoral reef, on living coral; 5.i.1907; slide 1409; [Howe collection number] 4763; [no pfa]; [Note: box marked 'N.Y.B.G. nr. 4763' [NY] and '*Gon. ~~solutibile~~ f. propinquum* f. *delvis* [= in part]'. Collection includes two annotation slips from Howe with the numbers 4763a and 4763b (including habitat data), but specimens (one large one and two fragments) are not marked. A third slip, written by Foslie is marked 'also (4763b) a little of *Lithoph. prototypum?*'; **TRH A11-600.**
- Howe; Jamaica; Rackam's Cay, near Kingston Harbor; on old pieces of coral and stone; 20.xii.1906; slide 1380; [Howe collection numbers] 4588a & b; [no pfa]; [Note: box marked 'N.Y.B.G. nr. 4588a & b' [NY] and '*Goniolithon notarisii* f. *propinquum* (ialf. *delvis* [= at least partly])' and '(og ung [= and young] *G. mamillosum*)' and 'b præp. [= slide] 1380' [meaning that slide 1380 was prepared from specimen 4588b]. Specimens in box marked '4588a' and '4588b'. Habitat data in box on Howe annotation slip]; **TRH A11-601.**
- Howe; Puerto Rico; Culebra Island; on living coral in 3 dm (decimetres) of water; 11.iii.1906; [no slides]; [Howe collection number] 4390; pfa: Printz 1929, pl. 45, fig. 10; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also marked '*Goniolithon notarisii* f. ~~*propinqua*~~ *propinquum*'. Habitat data in box on Howe annotation slip]; **TRH A11-602.**
- Howe; Puerto Rico; either Culebra [Island] or San Juan (see note); on corals in 3 dm (decimetres) of water; 3.iii.1906; slides 1070 and two slides numbered 1178; [Howe collection number] 4225; [no pfa]; [Note: box marked 'N.Y.B.G. 4225' [NY] and '*Goniolithon notarisii* f. ~~*propinqua*~~ *propinquum* delvis over [= partly over] *Lithoph. prototypum* og ung [= and young] *Gon. strictum*'. Locality on box lid as 'San Juan' with 'Culebra' crossed out but also with 'Culebra' (not crossed out) written again beneath the collection date. Habitat data in box on Howe annotation slip. Grouped with a collection of *Goniolithon propinquum* f. *imbicilla* (A11-604) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-603.**
- Howe; Puerto Rico; Culebra Island; on fragments of dead coral at low water mark; 5.iii.1906; slide 1079; [Howe collection number] 4288; [no pfa]; [Note: box marked 'N.Y.B.G. 4288' [NY]. Box also marked 'Grenede: *Gon. strictum* f. (prøve udt.) [= branched: *Gon. strictum* f. (sample taken out)]' and 'Tykkere skorpe, store konc.: *Gon. notarisii* f. ~~*propinqua*~~ *propinquum* [= thicker crust, large conceptacles: *Gon. notarisii* f. ~~*propinqua*~~ *propinquum*' and '(Tyndere s.: *Lithoph. prototypum*) præp. 1079 af sidste [= (thinner crust: *Lithoph. prototypum*) slide 1079 from the last one]'. Foslie filed that portion of Howe 4288 taken out from A11-605 in Drawer A13 under *Goniolithon spectabile* (A13-692). Habitat data in box on Howe annotation slip]; **TRH A11-605.**
- Howe; Puerto Rico; Culebra Island; near low water mark; 6.iii.1906; slides 1082, 1180; [Howe collection number] 4326; [no pfa]; [Note: box marked 'N.Y.B.G. 4326' [NY] and '*Gon. notarisii* f. ~~*propinqua*~~ *propinquum*'. Habitat data in box on Howe annotation slip]; **TRH A11-606.**
- Howe; Puerto Rico; Culebra Island; on coral near low water mark; 7.iii.1906; slide 1089; [Howe collection number] 4376; [no pfa]; [Note: box marked 'N.Y.B.G. 4376' [NY] and '*Gon. notarisii* f. *propinquum?*'. Habitat data in box on Howe annotation slip]; **TRH A11-607.**
- Howe; Puerto Rico; Ponce; on coral just below low water mark; 22.vi.1903; one slide labelled with Howe collection number 2572; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden nr 2572' [NY] and '*Gon. notarisii* f. *propinquum*'. Habitat data in box on Howe annotation slip]; **TRH A11-608.**
- Howe; Puerto Rico; San Juan; [no habitat data]; 2.vi.1903; one slide labelled with Howe collection number 2295e; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden Nr 2295e' [NY] and '*Gon. notarisii* f. *propinquum*']; **TRH A11-609.**
- Howe; Puerto Rico; San Juan, Santurce; on living corals in 10 dm (decimetres) of water in lagoon; 22.v.1903; two slides labelled respectively with Howe collection numbers 2024a, 2024ax; [no other collection data]; [no pfa]; [Note: box marked 'New York Botanical Gar-

den' [NY] and '*G. ~~notarisii~~-propinquum*'. Both Howe numbers pertain to the same material. Annotation slip from Howe with habitat data also marked 'pink when living'; **TRH A11-610**.

Lassen; Barbados; [no other locality data]; [no habitat data]; xi.1891; [no slides]; comm. Børgesen; [no pfa]; [Note: geographic region marked on box as 'Vestindien Barbados'. Barbados is part of the Lesser Antilles, one of the three island groups in the West Indies, along with the Greater Antilles and the Bahamas. Box marked '*G. notarisii* f.-*propinqua*'. Originally mixed with material of *Lithophyllum intermedium*, the latter now housed in Drawer A6 (A6-281). Adey & Lebednik 1967: 21 mistakenly list the collector as 'Børgesen']; **TRH A11-587**.

***propinquum, Goniolithon* (f. *imbicilla*)** [originally described as *Goniolithon propinquum* f. *imbicilla* (Foslie 1908f: 4), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 27 under species without mention of forma]. **Lectotype: TRH, A11-611** (see below).

Howe; Puerto Rico; Culebra Island; near low water mark; 3.iii.1906; slide 1065; [Howe collection number] 4222b; [no pfa]; [Note: box marked 'N.Y.B.G. Nr. 4222b' [NY] and '*Lithoph. (Derm.) prototypum*' and '*pachydermum*' and '*Gon. notarisii* f.-*ptychoides*' and 'carposp.? [= carposporangia?]' and '*G. propinquum* f. *imbicilla*'. Grouped with a collection of *Goniolithon propinquum* (A11-603) under one entry in Adey & Lebednik 1967: 27]; **TRH A11-604**.

Howe; Puerto Rico; San Juan, Santurce; on rocks at low water mark; 27.v.1903; one slide labelled with Howe collection number 2693; [no other collection data]; pfa: Printz 1929, pl. 45, fig. 15; [Note: **Lectotype** of *Goniolithon propinquum* f. *imbicilla*. Additional data — Woelkerling 1993: 120. Box marked 'New York Bot. Garden' [NY] and '*Gon. ~~notarisii~~-ptychoides?* *propinqua* f. *imbicilla*']; **TRH A11-611**.

***propinquum, Goniolithon* (f. *solubilis*)** [originally described as *Goniolithon solubile* (Foslie 1907b: 21) but subsequently (Foslie 1908f: 4) reduced in rank and treated as *Goniolithon propinquum* f. *solubilis* but not mentioned in Foslie's subsequent publications. Additional collections occur in Drawer A10. Collections listed in Adey & Lebednik 1967: 28 under species without mention of forma]. **Lectotype: TRH, A10-537** (in Drawer A10).

Howe; Bahamas; Atwood (Sanana) Cay; on coral near low water mark; 4.xii.1907; slide 1682; [Howe collection number] 5330; [no pfa]; [Note: box marked 'N.Y.B.G. 5330' [NY]. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 28 mistakenly give the collection locality as 'Mariguana Island']; **TRH A11-614**.

Howe; Bahamas; Castle island near Acklin Island; on coral; 22.xii.1907; [no slides]; [Howe collection number] 5754; [no pfa]; [Note: box marked 'N.Y.B.G. 5754' [NY]. Habitat data in box on Howe annotation slip]; **TRH A11-612**.

Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on living corals near low water mark; 6.xii.1907; slide 1690; [Howe collection number] 5373; pfa: Printz 1929, pl. 45, figs 12-13; [Note: box marked 'N.Y.B.G. 5373' [NY]. Habitat data in box on Howe annotation slip]; **TRH A11-613**.

rhizophorae, Goniolithon [originally described as *Goniolithon rhizophorae* (Foslie & Howe 1906b: (130)), but not mentioned in Foslie's subsequent publications]. **Holotype: NY**, Howe collection 4170 (Woelkerling 1993: 190).

Howe; Bahamas; Exuma Harbour, Stocking Island; on roots of *Rhizophora*, near low water mark; 26.ii.1905; slide 1708 and two slides numbered 4170a and 4170b; [Howe collection number] 4170; pfa: Printz 1929, pl. 47, fig. 8; [Note: **Isotype** of *Goniolithon rhizophorae* Foslie et Howe. Additional data — Woelkerling 1993: 190. Box marked 'New York Botani-

cal Garden Nr 4170' [NY]. Habitat data in box on Howe annotation slip which also is marked 'Branches sometimes 1 cm high usually simple.'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in NY]; **TRH A11-615**.

setchellii, Goniolithon [originally described as *Lithothamnion setchellii* (Foslie 1897b: 18) but subsequently (Foslie 1900i: 16) transferred without change in rank into *Goniolithon*, where Foslie retained it in publication]. **Holotype: TRH, A11-616** (see below).

Setchell; [United States]; California, San Pedro; in tide pools; i.1896; slides 190, 1496; Setchell collection number 1496; pfa: Printz 1929, pl. 47, fig. 2; [Note: **Holotype** of *Lithothamnion setchellii* Foslie. Additional data — Woelkerling 1993: 199. Collection includes one larger original round box and one small original round box. One annotation slip in larger box printed with 'Herbarium of the University of California' and 'Plants of California' also has hand-written collection data. Second annotation slip marked 'Konc. [= conceptacles] 600 μ -1200 μ '. Third slip marked '1469'. Small box contains one fragment and is marked '= Præp. [= slide] 190 and 'cyst. konc. [= cystocarpic conceptacles]'; **TRH A11-616**.

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; [no date]; [no slides]; comm. F.S. Collins, 1901, number 10; [no pfa]; [Note: box marked 'licheniform' and 'delvis [= partly] *G. setchellii*? & ~~ung brass fl.?~~ [= young *brassica-florida*]; **TRH A11-617**.

solubile, *Goniolithon*. See listing above for *propinquum, Goniolithon (f. solubilis)*.

Case A, Drawer 12

During the present study, three sheets containing cell measurements for a number of collections in Drawer A12 were found. The original sheets have been placed in an envelope marked 'Cell measurements pertaining to various collections in Drawer A12'. Photocopies of pertinent data also have placed with each relevant collection. In addition some photos and glass negatives were found in A12. One group marked *Goniolithon frutescens* has been placed in an envelope marked 'Photos and glass negatives of *Goniolithon frutescens* that could not be matched to a collection in Drawer A12'. Another photo marked *Lithoth. trichotomum* has been placed in an envelope marked 'Photo of a **PC** specimen of *Lithothamnion trichotomum* pertinent to A12-629'. A third group of photos has been placed in an envelope marked 'Photos of **NY** material of *Goniolithon acropetum* in Howe collection 4224 sent to Foslie by Howe and pertinent to A12-621'. A final photo has been placed in an envelope marked 'Loose photo found in Drawer A12 showing specimens of *Goniolithon frutescens* and *Lithophyllum gardineri*'.

acropetum, Goniolithon [originally described as *Goniolithon acropetum* (Foslie & Howe 1906a: 577), where Foslie retained it in publication]. **Holotype: NY**, Howe collection 4224 (Woelkerling 1993: 17).

Howe; Bahamas; Berry Islands, Little Harbour Cay; near low water mark; 31.i.1905; slide 1475; [Howe collection number] 3593; [no pfa]; [Note: box marked 'New York Bot. Garden no. 3593' [NY] and 'Gon. (*strictum* f.) *acropetum* (= *G. frutescens* fere [= nearly] f. *flabellif.*?), the underlining suggesting that Foslie finally placed the collection in *acropetum*. Adey & Lebednik 1967: 29 list the collection under '*Goniolithon frutescens*'; **TRH A12-618**.

Howe; Bahamas; Cat Island, near southwest point; on corals and stones in 3 dm (decimetres) of water, l.t. (low tide); 23.xi.1907; slide 1671; [Howe collection number] 5088; [no pfa]; [Note: box marked 'N.Y.B.G. 5088' [NY]. Habitat data on Howe annotation slip in box]; **TRH A12-619.**

Howe; Caicos Islands; Fort George Cay; on rocks in moderate surf at low water mark; 18.xii.1907; slide 1701; [Howe collection number] 5638; pfa: Printz 1929, pl. 51, fig. 1; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Habitat data on Howe annotation slip in box]; **TRH A12-620.**

Howe; Puerto Rico; Culebra Island; collection depth: 1-3 dm (decimetres), on corals; 3.iii.1906; slides 1067-1069 and two unnumbered slides; [Howe collection number] 4224; pfa: Printz 1929, pl. 51, figs 2-5 [incorrectly noted on box as pl. 1]; [Note: **Isotype** of *Goniolithon acropetum* Foslie. Additional data — Woelkerling 1993: 17 and Woelkerling 1998c: 290. Box marked 'NYBG #4224' [NY]. 'New York Botanical Garden' and 'North American Marine Algae' printed on two identical annotation slips which also have some printed collection data and some hand-written collection data. Third annotation slip marked 'Tem. nært forb. med *G. frutescens* f. *flabelliformis* men grovere og koncept. f. d. m. større [= fairly closely connected with *G. frutescens* f. *flabelliformis* but coarser and conceptacles mostly much larger]' and 'Cfr. [= cf.] *G. acropetum* Fosl. & Howe'. Fourth annotation slip marked 'N.Y.B.G. 4224' and 'Præp. 1067 af flad gren med tyndt overtræk [= slide 1067 of flattened branch with thin coat]' and 'Præp. 1068 af flad men tykkere gren [= slide 1068 of flattened but thicker branch]'. Fifth annotation slip marked 'Præp. 1069 af 2 n. trinde gr. [= slide 1069 of two some tubby branches]'. Collection includes one fragment in a small round box marked '4224' and '*G. acropetum*' and 'Porto Rico' and 'konc. [= conceptacles]'. Two photos sent by Howe of material in NY from 4224 have been placed in a separate envelope marked 'Photos of NY material of *Goniolithon acropetum* in Howe collection 4224 sent to Foslie by Howe and pertinent to A12-621'; **TRH A12-621.**

affine, *Goniolithon* [originally described as *Goniolithon affine* (Foslie & Howe in Foslie 1907b: 22), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A12-622 (see below).

Howe; Puerto Rico; Culebra; near low water mark; 4.iii.1906; slide 1075 and two slides numbered 1253; [Howe collection number] 4234; pfa: Printz 1929, pl. 52, fig. 11; [Note: **Holotype** of *Goniolithon affine* Foslie & Howe in Foslie. Additional data — Woelkerling 1993: 21. Box marked 'N.Y.B.G. 4234' [NY]]; **TRH A12-622.**

finitimum, *Goniolithon* [originally described as *Goniolithon setchellii* f. *finitima* (Foslie 1907a: 15) but subsequently (Foslie 1908f: 8) raised to the rank of species, namely *Goniolithon finitimum*, but not mentioned in Foslie's subsequent publications]. **Lectotype:** TRH, A12-626 (see below).

Engelhart; [Australia]; Syd-Australia [= South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Gon. laeacadvicum finitimum*']; **TRH A12-623.**

Gabriel; Australia; [Victoria], rundt [round] Phillips Island, Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 3-5 fathoms; 1897; slides 1321-1322; [no other collection data]; [no pfa]; [Note: box marked 'præp. 1321 af største ekspl. ved x. Præp. 1322 af næstst. d. gren [= slide 1321 of largest specimen at x. Slide 1322 of the second largest d. branch]'. Habitat data on annotation slip in box. Grouped with A12-625 under one entry in Adey & Lebednik 1967: 28]; **TRH A12-624.**

Gabriel; Australia; [Victoria], Phillips Island [= Phillip Island], Corner Inlet [but see Note]; gathered at low water mark from rocks; 1897; [no slides]; [no other collection data]; [no

- pfa]; [Note: Phillip Island is in Westernport Bay and not in Corner Inlet. Grouped with A12-624 under one entry in Adey & Lebednik 1967: 28]; **TRH A12-625.**
- Gabriel; Australia; Victoria, Phillip Island, Ocean Beach; [no habitat data]; 1905; slides 960-961; [no other collection data]; pfa: Printz 1929, pl. 47, figs 19-21; [Note: **Lectotype** of *Goniolithon setchellii* f. *finitima* Foslie. Additional data — Woelkerling 1993: 92. One annotation slip in packet marked 'Præp. [= slide] 961'. Second slip with cell measurements also marked 'Præp. [= slide] 961' and 'Konc. [= conceptacles] 600-800µ'. Third slip marked 'Konc. [= conceptacles] 600-800µ'. Fourth slip marked 'Cell. lidt mindre end [= cells some smaller than] *setchellii*'. Slide 961, reported missing by Woelkerling 1993: 92 was found in Drawer A28 during the present study]; **TRH A12-626.**
- Gabriel; Australia; Victoria, Port Phillip Heads; [no habitat data]; xii.1906; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 47, fig. 18; [no notes]; **TRH A12-627.**
- Gabriel; Australia; Victoria, Western Port (Port Phillip Bay); collection depth: 3-5 fathoms; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: locality data confusing because Western Port Bay and Port Phillip Bay are geographically separated localities]; **TRH A12-628.**

frutescens*, *Goniolithon [originally described as *Goniolithon frutescens* (Foslie 1900g: 9), where Foslie retained it in publication]. **Lectotype:** TRH, A12-652 (see below).

- Diguet; [Mexico]; California [= Baja California Sur], Bai de la Paz [= La Paz Bay]; [no habitat data]; 1894; slide 662; ex. herb. Mus. Paris [**PC**]; [no pfa]; [Note: box marked '*Lithoth. trichotomum* Heydr. = *G. frutescens* f. *congesta* – *subtilis*'. Box also incorrectly marked '(præp. [= slide] 647)'. Collection date written on slide 662 and on lid of small box of fragments inside the larger box. The collection originated from the lectotype or isolectotype of *Lithothamnion trichotomum* Heydrich — see Woelkerling 1998c: 364 for further information. A photograph of a pertinent **PC** specimen of *Lithothamnion trichotomum* has been placed in a separate envelope in Drawer A12. **TRH** collection not mentioned in Woelkerling 1993 or Woelkerling 1998. Adey & Lebednik 1967: 29 mistakenly list the collection locality as 'California USA']; **TRH A12-629.**
- Gardiner; Chagos [Archipelago]; Egmont [Island]; [no habitat data]; vi.1905; [no slides]; [no other collection data]; [no pfa]; [Note: collection apparently not included in Adey & Lebednik 1967: 28, who, however, list two other Egmont Island collections (A12-657, A12-664)]; **TRH A12-3812.**
- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; vii.1899; slide 753, and one unnumbered slide; comm. Stanley Gardiner M.A.; [no pfa]; [Note: box marked '*G. frutescens* forma (& *Derm. pust.*?)'. Grouped with A12-631, A12-632 and A12-633 under one entry in Adey & Lebednik 1967: 28]; **TRH A12-630.**
- [Gardiner]; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; vii.1899; slide 754; comm. Stanley Gardiner M.A.; pfa: Printz 1929, pl. 48, figs 6-7; [Note: box marked '*G. frutescens* f. *typica*'. Grouped with A12-630, A12-632 and A12-633) under one entry in Adey & Lebednik 1967: 28]; **TRH A12-631.**
- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; vii.1899; slide 811; comm. Stanley Gardiner M.A.; [no pfa]; [Note: box marked '*G. frutescens* f. *typica*'. Grouped with A12-630, A12-631 and A12-633 under one entry in Adey & Lebednik 1967: 28]; **TRH A12-632.**
- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; vii.1899; [no slides]; comm. Stanley Gardiner, M.A.; [no pfa]; [Note: box marked '*G. frutescens* f. *typica*'. Slide marked 'leg. Stanley Gardiner'. Annotation slip in box marked 'E. Mus. Acad. Cantabrigiae. Minikoi, Laccadive Is. E. Coll. J. S. Gardiner, M.A. Reg. June 20.1900' [probably meaning registered on 20.vi.1900]. Collection date on box lid is 'viii.1899'. Annotation slip also marked '2'. Grouped with A12-630, A12-631 and A12-632 under one entry in Adey & Lebednik 1967: 28]; **TRH A12-633.**

- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1899; slide 733; [no other collection data]; [no pfa]; [Note: box marked '*G. frutescens* f. *typica*'. Date on box lid is given as 'iv.1899', but on slide '1899' is crossed out and replaced with '1900'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-635, A12-636, A12-637, A12-638, A12-639, A12-640, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica – congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-634.**
- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1899; slide 734; [no other collection data]; [no pfa]; [Note: box marked 'ung [= young] f. *typica*'. Collection date on box given as 'iv.1899' but on slide '1899' is crossed out and replaced by '1900'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-636, A12-637, A12-638, A12-639, A12-640, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica – congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-635.**
- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1899; slide 735; [no other collection data]; [no pfa]; [Note: box lid marked '*Gon. frutescens* Fosl.' but slide marked '*Goniolithon frutescens* f. *typica – congesta*'. Collection date on box lid listed as 'iv.1899', but on slide '1899' is crossed out and replaced with '1900'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-637, A12-638, A12-639, A12-640, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica – congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-636.**
- [Gardiner]; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900 [1899 date crossed out on box]; [no slides]; Comm. Stanley Gardiner, M.A.; [no pfa]; [Note: box marked 'f. *typica*'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-638, A12-639, A12-640, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica – congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-637.**
- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 747; comm. Stanley Gardiner M.A.; [no pfa]; [Note: box marked 'og [= and] *L. onkodes* ell. ung [= or young] *L. crasp.*?'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-637, A12-639, A12-640, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica – congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-638.**
- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 759; comm. Stanley Gardiner M.A.; [no pfa]; [Note: box marked 'f. *typica*' and 'præp. [= slide] 759 (største ekspl. [= largest specimen])'. Annotation slip in box marked 'E. Mus. Acad. Cantabrigiae. Hulule, Male A, Maldive is. E. Coll. J. S. Gardiner, M.A. Reg. June 20.1900' [probably meaning registered on 20.vi.1900]. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-637, A12-638, A12-640, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica – congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-639.**
- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner M.A.; pfa: Foslie 1903c, pl. 25 [mistakenly cited as pl. 2 on box], fig. 4, and Printz 1929, pl. 48, fig. 4; [Note: box marked 'f. *typica*' and 'ikke konc.

- [= no conceptacles]'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-637, A12-638, A12-639, A12-659, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica* – *congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date 1899 crossed out and replaced by '1900'; **TRH A12-640.**
- Gardiner; Malediverne [= Maldives Islands]; Suvadiva Atoll; [no habitat data]; iv.1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. frutescens* f. *typica*'. Annotation slip in box marked 'E. Mus. Acad. Cantabrigiae. Suvadiva A, Maldives Is. E. Coll. J. S. Gardiner, M.A. Reg. June 20.1900' [probably meaning registered on 20.vi.1900] and '20']; **TRH A12-641.**
- Jadin; Mauritius; [no other locality data]; [no habitat data]; [no date]; [no slides]; Jadin collection number 552; [no pfa]; [Note: grouped with the lectotype of *Goniolithon spectabile* f. *brevifluta* (A12-669) under one entry to Adey & Lebednik 1967: 29]; **TRH A12-642.**
- Ohlendorff; [Indonesia]; Borneo; [no habitat data]; [no date]; slide 594; ex Bot. Mus. Hamburg; [no pfa]; [Note: box marked '*G. frutescens*?'. Slide marked '*G. frutescens*? forma?']; **TRH A12-643.**
- Rechinger; Samoa; Upalu [= Upolu] Island, reef at Muliuu; [no habitat data]; vii.1905; slide 1105; [collection?] number 5095; [no pfa]; [Note: box marked '*G. frutescens* fere [= nearly] f. *typica*' and 'ca. 1\3 af ekspl. ca. 6 cm i diam. [= ca 1\3 of specimens ca 6 cm in diameter]'. Adey & Lebednik 1967: 29 mistakenly list collector as 'Reichinger']; **TRH A12-644.**
- [Weber-van Bosse]; [Indonesia]; Binongka [Island]; [no habitat data]; [no date]; [no slides]; Siboga Expedition, no. 1171; [no pfa]; [Note: collection originally placed by Foslie in same box with Siboga Expedition collection 511 from the Kei Islands. Because two localities are involved, collections have been placed in separate boxes and given separate **TRH** collection numbers. Original box marked '*Gon. frutescens* f. *typica*'; **TRH A12-3811.**
- [Weber-van Bosse]; [Indonesia]; Damar; [no habitat data]; [no date]; [no slides]; Siboga Expedition, no. 24; [no pfa]; [Note: box marked '*Gon. frutescens* f. *typica*' and 'brudstk. af største ekspl. [= fragments of largest specimen]'. Box also marked 'præp. return [= slide returned]' and 'ikke konc. [= no conceptacles]']; **TRH A12-647.**
- [Weber-van Bosse]; [Indonesia]; [Kei Islands], Kei Elat; [no habitat data]; [no date]; [no slides]; Siboga Expedition, no. 511; [no pfa]; [Note: collection originally placed by Foslie in same box with Siboga Expedition collection 1711 from the Binongka Island. Because two localities are involved, collections have been placed in separate boxes and given separate **TRH** collection numbers. Original box marked '*Gon. frutescens* f. *typica*'; **TRH A12-648.**
- [Anon.]; Galapagos [Archipelago]; Indefatigable Island; [no habitat data]; vi.1872; [no slides]; Hassler Expedition, ex herb. Thuret - Bornet [**PC**]; [no pfa]; [Note: box marked '*Lith. calcareum* Aresch (ex Farl.)' and 'Vix *L. calc.*!' and 'ikke konc. [= no conceptacles]']; **TRH A12-651.**
- [Anon.]; Hawaiian Islands; [no other locality data]; [no habitat data]; [no date]; slide 1036; Smiths. Inst. [= Smithsonian Institution] "Albatross" 1902 [expedition], station 3968, acc. 45403; [no pfa]; [Note: box marked '*Gon. frutescens* f.?']; **TRH A12-650.**
- [Anon.]; Samoa [= Samoa Islands]; [no other locality data]; [no habitat data]; [no date]; slide 589; ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked 'konc. 400 - fotogr. [= conceptacles 400 - photographed]' and '*Gon. frutescens* Fosl. f. *typica*'. The Samoa Islands include the nation of Samoa and American Samoa (a dependency of the United States)]; **TRH A12-649.**
- [Anon.]; [Tuvalu]; Funafuti; [no habitat data]; 1899; slides 430-431 and 43 unnumbered slides; Brit. Mus. A12 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; pfa: Printz 1929, pl. 48, fig. 2; [Note: **Lectotype** of *Goniolithon frutescens* Foslie. Additional data — Woelkerling 1993: 99, and Verheij 1994: 113, 115. '1899' collection date is listed

on unnumbered slides. Box lid marked 'Præp. Andersss. 430 ca. 2 mm nedenfor top-pen [= slide Andersson 430 ca 2 mm below the top]' and 'No. 431 lgdsn. samtr. grener [= slide 431 longitudinal section compressed branches]'. 'Anderss.' denotes R.A. Anderson, the name of a slide making company used by Foslie. Bottom of box marked '*Goniolithon frutescens* grov [= coarse] f. *typica*'; **TRH A12-652**.

[Anon.]; [Tuvalu]; Funafuti; [no habitat data]; [no date]; [no slides]; British Museum A13 '(delvis [= part])'; pfa: Printz 1929, pl. 48, fig. 1; [Note: box marked '*Gon. frutescens* f. *typica* – *flabellif.*'. Grouped with a collection of *G. frutescens* (f. *frutescens*) (A12-654) and the lectotype fragment of *G. frutescens* f. *flabelliformis* (A12-666) under one entry in Adey & Lebednik 1967: 29]; **TRH A12-653**.

[Anon.]; [Tuvalu]; Funafuti; [no habitat data]; [no date]; slide 425; British Museum A48, [comm. G. Murray (see Foslie 1900g: 3)]; pfa: Printz 1929, pl. 48, fig. 3; [Note: box marked '*Gon. frutescens* f. *typica* – *flabellif.*' and '(og ung [= and young] *L. craspedium*)' and 'Fotografi. Ekspl. største lgd. c. 24 cm Beholdt brudstk. [= photograph. Specimen largest length ca 24 cm Retained fragment]'. Grouped with a collection *G. frutescens* (f. *frutescens*) (A12-653) and the lectotype fragment of *G. frutescens* f. *flabelliformis* (A12-666) under one entry in Adey & Lebednik 1967: 29]; **TRH A12-654**.

[Anon.]; [Tuvalu]; Funafuti, Lagoon, Beach S. of village; [no habitat data]; [no date]; slides 446-447; [no other collection data]; [no pfa]; [no notes]; **TRH A12-655**.

[Anon.]; [Tuvalu]; Funafuti, Lagoon platform; [no habitat data]; [no date]; slide 448; Brit. Mus A59, [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [no notes]; **TRH A12-656**.

***frutescens*, *Goniolithon* (f. *congesta*)** [originally described as *Goniolithon frutescens* f. *congesta* (Foslie 1903c: 468), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 28-29 under species without mention of forma]. **Lectotype:** TRH, A12-659 (see below).

Gardiner; Chagos [Archipelago]; Indiske [= Indian] Ocean, Egmont [Island], Lagoon Shoal; [no habitat data]; v.-vi.1905; slides 1303-1304; [no other collection data]; [no pfa]; [Note: box marked 'af spritm. [= from spirit material]' and 'konc. [= conceptacles] 300-400'. Annotation slip in box marked 'Egmont, Chagos, Lagoon shoal og [= and] Breaker (?) zone'. Grouped with a collection of f. *flabelliformis* (12-664) under one entry in Adey & Lebednik 1967: 28]; **TRH A12-657**.

Gardiner; Chagos [Archipelago]; Salomon Islands; [no habitat data]; v.-vi.1905; slide 1319; [no other collection data]; pfa: Printz 1929, pl. 48, fig. 9; [Note: box marked 'Præp. 1319 af største ekspl. [= slide 1319 of largest specimen]' and 'brudst. af spritm. [= fragments from spirit material]']; **TRH A12-658**.

Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 736; [1899 date crossed out on box]; pfa: Foslie 1903c, pl. 25, fig. 5, and Printz 1929, pl. 48, fig. 13; [Note: **Lectotype** of *Goniolithon frutescens* f. *congesta*. Additional data — Woelkerling 1993: 59. Foslie 1903c pl. 25 [mistakenly listed as pl. 2 on box], fig. 5, and Printz 1929, pl. 48, fig. 13. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-637, A12-638, A12-639, A12-640, A-12-660, A12-661), several of which are marked 'f. *typica*' or 'f. *typica* – *congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by '1900']; **TRH A12-659**.

Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner M.A.; pfa: Foslie 1903c, pl. 25, fig. 6 [mistakenly listed as pl. 2 on box], and Printz 1929, pl. 48, fig. 12 [both as f. *congesta* representing a transition to f. *typica*]; [Note: box marked 'f. *typica* - *congesta*'. Collection date on box listed as 'iv.1900' but annotation slip in box marked 'Leg. Stanley Gardiner, 'iv.1899.'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-637, A12-638, A12-639, A12-640, A12-659, A12-661),

several of which are marked 'f. *typica*' or 'f. *typica* – *congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by 1900]; **TRH A12-660**.

Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner M.A.; [no pfa]; [Note: box marked 'f. *typica* - *congesta*'. Collection date on box given as 'iv.1900', but annotation slip in box marked 'Leg. Stanley Gardiner, iv.1899.'. Grouped in Adey & Lebednik 1967: 28 under one entry dated 'iv.1900' with nine other collections (A12-634, A12-635, A12-636, A12-637, A12-638, A12-639, A12-640, A12-659, A-12-660), several of which are marked 'f. *typica*' or 'f. *typica* – *congesta*' or 'f. *congesta*'. Some of the 10 collections are dated 'iv.1899' while others are dated 'iv.1900' while still others have the date '1899' crossed out and replaced by 1900]; **TRH A12-661**.

[Weber-van Bosse]; [Indonesia]; Binongka [Island]; [no habitat data]; 1-3.xi.1899; [no slides]; Siboga Expedition, station 220, collection 1168; [no pfa]; [Note: bottom of box marked 'Gon. *frutescens* fere [= nearly] f. *congesta* (ikke typisk *cong.* [= not a typical *cong.*)]']; **TRH A12-663**.

[Weber-van Bosse]; [Indonesia]; Binongka; [no habitat data]; 1.-3.xi.1899; one slide labelled with Siboga Expedition collection number 1163; Siboga Expedition, station 220, collection 1163; pfa: Foslie 1904b, pl. 10, fig. 10; [Note: collection consists only of prepared slide. Slide marked 'Goniol. *frutescens* f. *congesta*']; **TRH A12-645**.

[Anon.]; [Society Islands]; Tahiti; [no habitat data]; [no date]; slides 1417, 1431; [ex] Mus. Paris [PC], [comm.] P. Hariot iv.1907, number 12; [no pfa]; [Note: box marked 'Gon. *frutescens* f. *congesta* (ung [= young])'. Adey & Lebednik 1967: 29 mistakenly Hariot as the collector and 1907 as the collection date]; **TRH A12-662**.

***frutescens*, *Goniolithon* (f. *flabelliformis*)** [originally described as (Foslie 1900g: 9), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 28-29 under species without mention of forma]. **Lectotype: BM**, algal box collection 316 (Woelkerling 1993: 93).

Gardiner; Chagos [Archipelago]; Indiske [= Indian] Ocean, Egmont [Island], Lagoon Shoal; [no habitat data]; v.-vi.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'af spritmat. [= from spirit material]'. Grouped with a collection of f. *congesta* (A12-657) under one entry in Adey & Lebednik 1967: 28]; **TRH A12-664**.

Gardiner; [Seychelles]; Indiske [= Indian] Ocean, Coetivy [Island]; E. Reef; ix.1905; slides 1293-1294; [no other collection data]; pfa: Printz 1929, pl. 52, fig. 16; [Note: box marked 'præp. [= slides] 1293 + 1294 af største ekspl. [= of largest specimen]' and 'fin [= fine] f. *flabelliformis* – *congesta*'. Slide 1293 marked 'af trind gren [= from tubby branch]'. Slide 1294 marked 'sammentr. gren [= compressed branch]']; **TRH A12-665**.

[Anon.]; [Tuvalu]; Funafuti, Fualopa; [no habitat data]; [no date]; slide 424; British Museum A46, [comm. G. Murray (see Foslie 1900g: 3)]; pfa: Printz 1929, pl. 48, fig. 5; [Note: **Lectotype fragments** of *Goniolithon frutescens* f. *flabelliformis* Foslie. Additional data — Woelkerling 1993: 93. Box marked 'analyse no. 18' and 'Fotografi: største lgd. 12 cm, beholdt brudstyk. [= photograph: largest length 12 cm, retained fragment]'. Collection includes two smaller boxes with sporangial conceptacles. Photos and a glass negative showing the **BM** lectotype (depicted in Printz 1929, pl. 48, fig. 5) have been placed in a separate envelope in Drawer A12. Grouped with two collections of *G. frutescens* (f. *frutescens*) (A12-653, A12-654) under one entry in Adey & Lebednik 1967: 29]; **TRH A12-666**.

***frutescens*, *Goniolithon* (f. *galapagense*)** [originally described as *Goniolithon frutescens* f. *galapagense* (Foslie 1907a: 18), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 29 under species without mention of forma]. **Holotype: TRH**, A12-667 (see below).

[Anon.]; Galapagos [Archipelago]; Duncan Island; [no habitat data]; [no date]; slide 896; US Fish Comm. Steamer "Albatross" 1902 (?), cat. no. 8168, ex herb. Weber-van Bosse [L], 1905; pfa: Printz 1929, pl. 48, fig. 14; [Note: **Holotype** of *Goniolithon frutescens* f. *galapagense* Foslie. Additional data — Woelkerling 1993: 102. Collection comprises two smaller boxes of material housed in one larger box]; **TRH A12-667**.

frutescens, Goniolithon (f. subtilis) [originally described as *Goniolithon frutescens* f. *subtilis* (Foslie 1904b: 53), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 29 under species without mention of forma]. **Lectotype: L**, 991.239-232 (Verheij & Woelkerling 1992: 287).

[Weber-van Bosse]; [Indonesia]; south of Lucipara group; [no habitat data]; 8.-10.xi.1899; one slide labelled with Siboga Expedition collection number 555; Siboga Expedition, station 225, collection 555; pfa: Printz 1929, pl. 48, fig. 11; [Note: **Isolectotype** of *Goniolithon frutescens* f. *subtilis* Foslie. Additional data — Verheij & Woelkerling 1992: 287, Woelkerling 1993: 216, and Verheij 1994: 113, 115]; **TRH A12-668**.

[Weber-van Bosse]; [Indonesia]; Lucipara group; [no habitat data]; 8.-10.xi.1899; one slide labelled with Siboga Expedition collection number 560; Siboga Expedition, station 225, collection 560; pfa: Foslie 1904b, pl. 10, fig. 12; [Note: PART OF **Isolectotype** of *Goniolithon frutescens* f. *subtilis* Foslie. Additional data — Verheij & Woelkerling 1992: 287 and Woelkerling 1993: 216. **TRH** collection consists only of one slide (specimen is housed in L)]; **TRH A12-646**.

setchellii, Goniolithon (f. finitima). See listing above for *finitimum, Goniolithon*.

spectabile, Goniolithon (f. brevifluta) [originally described as *Goniolithon spectabile* f. *brevifluta* (Foslie 1901a: 16), but not mentioned in Foslie's subsequent publications. An additional collection of this forma is in Drawer A13. Collection listed in Adey & Lebednik 1967: 29 under *Goniolithon frutescens*]. **Lectotype: TRH**, A12-669 (see below).

Jadin; Mauritius; [no other locality data]; [no habitat data]; ix.1890; slide 35; Jadin collection number 549; pfa: Printz 1929, pl. 48, fig. 10; [Note: **Lectotype** of *Goniolithon spectabile* f. *brevifluta* Foslie. Additional data — Woelkerling 1993: 44. Slide labelled 'Jadin 549' and '*Goniolithon spectabile* f. *brevifluta*'. Outside of box mislabelled '*Gon. frutescens*' with the epithet *spectabile* crossed out. Grouped with a collection of *Goniolithon frutescens* f. *frutescens* (A12-642) under one entry in Adey & Lebednik 1967: 29, who mistakenly list the collector as 'Jodin']; **TRH A12-669**.

Case A, Drawer 13

During the present study, two loose notes were found that could not be linked to any particular collection. These now have been placed in an envelope labelled 'Loose notes found in Drawer A13'. In addition, four sheets containing cell measurements for a number of collections in Drawer A13 were found. The original sheets have been placed in an envelope marked 'Cell measurements pertaining to various collections in Drawer A13'. Photocopies of pertinent data also have been placed with each relevant collection.

decutescens, Lithothamnion [originally described as *Lithothamnion decutescens* (Heydrich 1901a: 54) but subsequently (Foslie 1907a: 19) provisionally transferred without change in rank to *Goniolithon*. Foslie (1907a: 19), however, placed *G. decutescens* under *G.*

spectabile in his published account, and filed the Heydrich collection under *G. spectabile* in his herbarium]. **Holotype:** PC, General Herbarium (Woelkerling 1998c: 339).

Farlow; Bermuda; [no other locality data]; [no habitat data]; [no date]; [no slides]; Farlow collection number 67 and number 46a, Herb. Mus. Paris [PC]; pfa: Heydrich 1901a, fig. 7 [box marked '*Lith.? decutescens* Heydr in "Lith. Mus. Paris" fig. 7']; [Note: **Holotype fragments** of *Lithothamnion decutescens* Heydrich. Additional data — Woelkerling 1998c: 339. A photo of a longitudinal section of a branch presumed to be from this collection is housed in a separate envelope. Collection filed under *G. spectabile* in Foslie's herbarium and listed under *G. spectabile* in Adey & Lebednik 1967: 29]; **TRH A13-674.**

intermedium, Goniolithon [originally described as *Goniolithon intermedium* (Foslie 1901a: 15), where Foslie retained it in publication]. **Holotype:** TRH, A13-670 (see below).

Wordsworth; Bermuda; [no other locality data]; [no habitat data]; 1890; slide 494; [ex] herb. Farlow [FH], number XXI, [comm. Farlow] 1900; pfa: Printz 1929, pl. 49, fig. 12 [as *Goniolithon spectabile* f. *intermedia*]; [Note: **Holotype** of *Goniolithon intermedium* Foslie. Additional information — Woelkerling 1993: 129. Box marked '*G. spectabile* f. ~~*G. intermedium*~~ Fosl.'. Slide marked '*G. strictum* f. *intermedium*'. One annotation slip in box marked '*L. byssoides* [?]'. An annotation slip written by Foslie is marked '= typisk [= typical] *strictum* eller egentlig [= or actually] *L. frutesc.* f. *congesta*'. Collector is spelled 'Wordsworth' on the box and slide but 'Wadsworth' in the protologue (Foslie 1901a: 16). Listed under *Goniolithon spectabile* without reference to *G. intermedium* in Adey & Lebednik 1967: 29]; **TRH A13-670.**

spectabile, Goniolithon [originally described as *Goniolithon spectabile* (Foslie 1901a: 16), where Foslie retained it in publication]. **Lectotype:** TRH, A13-675 (see below).

Agassiz; [United States]; Florida; reefs; [no date]; slide 496; Herb. Farlow [FH], number XXIII, (1900), [comm. Farlow]; pfa: [Printz 1929], pl. 49, fig. 4; [Note: annotation slip in box marked 'Herb. Farlow XXIII (1900)']; **TRH A13-671.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Longfjords Strand; [no habitat data]; 24.ii.1906; slide 1197; [no other collection data]; [no pfa]; [Note: box marked '*Gon. strictum spectabile* fere [= nearly] f. *nana* (forkrøblet [= dwarfed])'. Slide marked '*Gon. strictum* fere [= nearly] f. *nana*']; **TRH A13-672.**

Forsstrand; Bermuda; [no other locality data]; [no habitat data]; 1889; slide 437; ex herb. Riksmuseet, Stockholm [S]; pfa: Printz 1929, pl. 49, fig. 1; [Note: **Lectotype** of *Goniolithon spectabile* Foslie. Additional data — Woelkerling 1993: 204, and Woelkerling 1998c: 294, who mistakenly attributes the lectotypification to Adey (see Adey & Lebednik 1967: 29 and Adey 1970b: 9), unaware of the earlier lectotypification of Printz 1929, legend to pl. 49, fig. 1. Annotation slip in box marked '*L. byssoides* (Phil) forma?'. A separate envelope in A13 contains a packet with two glass negatives, four photographs (none of which show the specimen depicted in Printz 1929, pl. 49, fig. 1) and a slip with cell measurements that apparently relate to A13-675]; **TRH A13-675.**

Howe; Bahamas; Berry Islands, Frozen Cay; in 1-3 dm (decimetres) of water, low tide; 30.i.1905; [no slides]; [Howe collection number] 3576; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 29 mistakenly record the Howe collection number as '3571']; **TRH A13-676.**

Howe; Bahamas; Bimini Harbour; among *Thalassia* near low water mark; 16.iv.1904; [no slides]; [Howe collection number] 3322; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY]. Habitat data in box on Howe annotation slip]; **TRH A13-677.**

- Howe; Bahamas; Great Bahama, south shore, Smith's Point; on shells of living lamellibranches near low water mark; 10.ii.1905; [no slides]; [Howe collection number] 3857; pfa: Printz 1929, pl. 49, fig. 6; [Note: box marked 'New York Bot. Garden' [NY]. Habitat data in box on Howe annotation slip]; **TRH A13-680.**
- Howe; Bahamas; Great Exuma, Georgetown; on living lamellibranches, coral, etc., in 3 dm (decimetres) of water, low tide; 28.ii.1905; [no slides]; [Howe collection number] 4197; pfa: Printz 1929, pl. 49, fig. 9; [Note: box marked 'New York Bot. Garden' [NY] and 'G. *spectabile strictum* f (= G. *frutesc.* f. *congesta?*)'. Habitat data in box on Howe annotation slip]; **TRH A13-679.**
- Howe; Bahamas; Great Ragged Island; on rocks at low water mark; 24.xii.1907; slide 1704; [Howe collection number] 5825; [no pfa]; [Note: box marked 'N.Y.B.G. 5825' [NY]. Habitat data in box on Howe annotation slip]; **TRH A13-681.**
- Howe; Bahamas; Rose Island, near New Providence; on rocks, low littoral; 27.i.1905; [no slides]; [Howe collection number] 3409; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and 'G. *strictum* f. *spectabile?*' Habitat data in box on Howe annotation slip. Grouped with A13-683 under one entry in Adey & Lebednik 1967: 29]; **TRH A13-682.**
- Howe; Bahamas; Rose Island, near new Providence; on 4-5 dm (decimetres) of water, low tide; 28.i.1905; [no slides]; [Howe collection number] 3451; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and G. *strictum*-f. *spectabile?*' Habitat data in box on Howe annotation slip. Grouped with A13-682 under one entry in Adey & Lebednik 1967: 29]; **TRH A13-683.**
- Howe; Bahamas; South Cat Cay, Dollar Harbor; on rocks in 3-6 dm (decimetres) of water, low tide; 19.iv.1904; [no slides]; [Howe collection number] 3292; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and 'G. *strictum* f. *spectabile?*' Habitat data in box on Howe annotation slip]; **TRH A13-678.**
- Howe; Bahamas; Watling Island, southeast end; on rocks, near low water mark; 28.xi.1907; slide 1673; Howe collection number] 5181; pfa: Printz 1929, pl. 49, fig. 3; [Note: box marked 'N.Y.B.G. 5181' [NY] and 'Goniolithon *strictum spectabile*. Habitat data in box on Howe annotation slip]; **TRH A13-684.**
- Howe; Bermuda; Somerset; on rocks; 26.vi.1900; one slide labelled with Howe collection number 236; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and 'af return. ekspl. [= of returned specimen]']; **TRH A13-686.**
- Howe; Bermuda; Stokes Bay, Tucker's Town; in 1 metre of water; 6.vii.1900; one slide labelled with Howe collection number 318; [no other collection data]; pfa: Printz 1929, pl. 49, fig. 2; [Note: box marked 'Gon. *spectabile* f.'. Slide marked 'New York Botanical Garden, Bermuda Algae. 318'. Printz 1929, pl. 49, fig. 2 lists the specimen as f. *nana*, but this epithet is not written on the box. See Woelkerling 1993: 156 for additional information on G. *spectabile* f. *nana*]; **TRH A13-685.**
- Howe; Bermuda; Tucker's Island; collection depth: 1-2 metres of water at low tide; 4.vi.1900; two slides, both labelled with Howe collection number 319; [no other collection data]; [no pfa]; [Note: box marked 'NYBG 319' [NY]. Collection date on box is 4.vi.1900, but on one slide, the date is 7.vi.1900 while on an annotation slip from Howe the dates are given as 7.vii.1900 and 5.vi – 7.vii.1900. Slide also marked 'New York Botanical Garden Bermuda Algae 319.'. One annotation slip from Howe is marked 'no 319' and '*Lithothamnion decutescens* Heyd. = Gon. *spectabile*' and 'pink when living, quickly alb---- on being dried.'. Another Howe annotation slip is marked 'no. 322, *Melobesia* (?) Encrusting *Lith. decutescens* (no. 319) Tucker's Island']; **TRH A13-687.**
- Howe; Caicos Islands, B.W.I. [= British West Indies]; Fort George Cay; on pebble, dredged in 4-5 metres of water; 18.xii.1907; [no slides]; [Howe collection number] 5637; [no pfa]; [Note: box marked 'N.Y.B.G. 5637' [NY] and 'Forkrøblet [= dwarfed] G. *spectabile* ell. [= or] G. *strictum*'. Habitat data in box on Howe annotation slip. Collection not included in Adey & Lebednik 1967]; **TRH A13-688.**
- Howe; Jamaica; 8-11 miles east of Montego Bay; common in 1-4 dm (decimetres) of water inside of a reef; 12.i.1907; slide 1461; [Howe collection number] 4998; [no pfa]; [Note: box

marked 'N.Y.B.G. Nr 4998' [NY]. Habitat data in box on Howe annotation slip]; **TRH A13-689.**

Howe; Jamaica; Rackam's Cay, near Kingston Harbor; on fragments of coral, etc., in 3 dm (decimetres) of water; 20.xii.1906; slide 1381; [Howe collection number] 4589; [no pfa]; [Note: box marked 'N.Y.B.G. Nr 4589' [NY]. Habitat data in box on Howe annotation slip]; **TRH A13-690.**

Howe; Puerto Rico; Culebra Island; free in 3 dm (decimetres) of water; 6.iii.1906; slide 1091; [Howe collection number] 4378; pfa: Printz 1929, pl. 49, fig. 7; [Note: box marked 'N.Y.B.G. Nr 4378' [NY] and '*Gon. strictum spectabile* f.'. Habitat data in box on Howe annotation slip]; **TRH A13-691.**

Howe; Puerto Rico; Culebra [Island]; [no habitat data]; 5.iii.1906; [no slides]; [Howe collection number] 4288; [no pfa]; [Note: box marked 'N.Y.B.G. [= NY] 4288 delvis [= partly]' and '*G. strictum* f.? *spectabile* f.?' and 'cfr. under [= cf. under] *G. not.*'. Box also marked 'Tag snit [= cut taken]' and 'ikke konc. [= no conceptacles]'. Foslie placed the remaining part of Howe 4288 in Drawer A11 under *Goniolithon propinquum* (A11-605)]; **TRH A13-692.**

Howe; Puerto Rico; Lemon Bay, near Guanica; on rocks at low water mark; 27.vi.1903; one slide labelled with Howe collection number 2668; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and 'ikke konc. [= no conceptacles]' and '*Gon. strictum spectabile* (f. *nana*)'. See Woelkerling 1993: 156 for additional information on *Goniolithon strictum* f. *nanum*]; **TRH A13-693.**

Howe; [United States]; Florida, Sands Key; on rocks and pebbles near low water mark; 30.iii.1904; [no slides]; [Howe collection number] 2921; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '*Gon. strictum spectabile* f. (ung [= young])' and '(fere [= nearly] f. *nana*)' and 'konc. [= conceptacles]']; **TRH A13-694.**

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; i.1881; slide 490; ex herb Farlow [FH], number XVII, 1900; [no pfa]; [Note: slide marked '*G. spectabile* f.?']; **TRH A13-695.**

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; [no date]; slide 492; Herb Farlow, number XIX, (1900), [comm. Farlow] [FH]; pfa: Printz 1929, pl. 49, fig. 5; [Note: annotation slip in box marked 'parasitic species on *L. byssoides* [?], vel off.']; **TRH A13-673.**

[Anon.]; Rotes Meer [= Red Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex. Herb. K.K. Naturh. Hofmus. Wien [W]; [no pfa]; [Note: box marked '*Lithoth. byssoides*' and '= *Gon. spectabile*?' and '(Sands. Indiske hav [= probably Indian Ocean])' and 'brudst. [= fragments]']; **TRH A13-696.**

[Anon.]; [United States]; Florida; [no habitat data]; [no date]; slide 478; ex herb. Thuret – Bor-net [PC], comm. Farlow; [no pfa]; [Note: box marked '*Goniolith. spectabile*?']. Slide marked '*G. (spectabile?) strictum*'. Box and slide marked 'Farlow ded. [= given by Farlow]'. Adey & Lebednik 1967: 30 include the collection under *Goniolithon strictum*]; **TRH A13-697.**

spectabile, Goniolithon (f. brevifluta) [originally described as *Goniolithon spectabile* f. *brevifluta* (Foslie 1901a: 16), but not mentioned in Foslie's subsequent publications. An additional collection of this forma is in Drawer A12. Collection listed in Adey & Lebednik 1967: 29 under species without mention of forma]. **Lectotype:** TRH, A12-669 (in Drawer A12).

Agassiz; Mauritius?; [no other locality data]; [no habitat data]; [no date]; slides 505-506; ex. herb. Farlow [FH], no. 32 + 33; [no pfa]; [Note: annotation slip in box marked 'Herb W.G. Farlow, Mauritius? Neppe! [= hardly], Coll. Agassiz.' followed by 'Bermuda?' Slide 505 is marked 'Mauritius? Coll. A. Agassiz, Herb. Farlow nr XXXII (Bermuda? = XIX?)']; **TRH A13-698.**

strictum, Goniolithon [originally described as *Goniolithon strictum* (Foslie 1901a: 14), where Foslie retained it in publication]. **Holotype:** TRH, A13-701 (see below).

- Agassiz; [United States]; Florida; [no habitat data]; [no date]; slide 493; [comm.] Farlow in 1900, number XX; pfa: Printz 1929, pl. 50, fig. 1; [Note: **Holotype** of *Goniolithon strictum* Foslie. Additional data — Woelkerling 1993: 208. Box marked '*Gon. strictum* f. *fastigiata*' and 'ikke konc. [= no conceptacles]'. The epithet 'f. *fastigiata*' is superfluous for f. *strictum*. Printed annotation slip in box from Herb. W.G. Farlow [FH] is marked '*L. byssoides*'; **TRH A13-701.**
- Howe; Bahamas; Bimini; harbour among *Thalassia* near low water mark; 16.iv.1904; [no slides]; [Howe collection number] 3222b; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and '*Gon. strictum* f. *typica*'. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-703.**
- Howe; Bahamas; Bimini; harbour in 3 dm (decimetres) of water (low tide) in shallow bay: common; 17.iv.1904; one slide labelled with Howe collection number 3275; [no other collection data]; pfa: Printz 1929, pl. 50, figs 2-3; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box marked '*Goniolithon strictum* f. *typica*'. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-704.**
- Howe; Bahamas; Bimini; harbour in 3 dm (decimetres) of water (low tide) in shallow bay: common; 17.iv.1904; one slide labelled with Howe collection number 3275; New York Botanical Garden [NY] no. 3275 [Howe collection number]; pfa: Printz 1929, pl. 50, fig. 6; [Note: box marked '*Goniolithon strictum* f. *typica*'. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-705.**
- Howe; Bahamas; Cat Island, near southwest point; on rocks near low water mark; 23.xi.1907; slide 1670; [Howe collection number] 5061; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY] and 'much approaching forms of *G. spectabile* in habit.'. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-706.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; forming extensive beds at low water mark; 6.xii.1907; [no slides]; [Howe collection number] 5369; [no pfa]; [Note: 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip affixed to box lid. Box marked 'nærmere sig [= close to] *spectabile*' and 'oprindeligt hel ekspl.! [= original whole specimen!']'. Collection rediscovered during present study and thus not included in Adey & Lebednik 1967]; **TRH A13-702.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], 10 miles west of Abraham Bay; very common in 3-10 dm (decimetres) of water (low tide); 5.xii.1907; [no slides]; [Howe collection number] 5332; [no pfa]; [Note: box marked 'N.Y.B.G. 5332' [NY] and 'Konc. utd. til mikrofotogr., kun ... et ell. to hele og nogle delvis opløste [= conceptacles taken out for microphotographing, only ...one or two whole and some partly disintegrated]'. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-707.**
- Howe; Bahamas; Rose Island, near New Providence; low littoral; 27.i.1905; [no slides]; [Howe collection number] 3410; [no pfa]; [Note: box marked 'New York Bot. Garden' [NY]. Annotation slip in box from Howe marked 'with 3409, fenestrations probably caused by animals'. For Howe collection 3409, see A13-682. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-708.**
- Howe; Bahamas; Stocking Island, Exuma Harbor; very common on surf-beaten rocks near low water mark; 26.ii.1905; [no slides]; [Howe collection number] 4150; pfa: Printz 1929, pl. 50, fig. 4; [Note: box marked 'New York Botanical Garden' [NY] and '*Gon. strictum* f. *typica*' and 'Analyse nr. 19'. Annotation slip in box from Howe marked 'single masses sometimes 5-6 dm (decimetres) in width'. Adey & Lebednik 1967: 30 mistakenly list 'Jamaica' as the country of collection]; **TRH A13-709.**
- Howe; Bahamas; Watling Island, southern shore; in 3-10 dm (decimetres) of water, l.t. (low tide); 30.xi.1907; [no slides]; [Howe collection number] 5242; [no pfa]; [Note: 'New York

Botanical Garden' [NY] printed on slip affixed to box lid. Habitat data in box on Howe annotation slip. Adey & Lebednik 1967: 30 mistakenly list the country of collection as 'Jamaica'; **TRH A13-711.**

Howe; Jamaica; Montego Bay; in 2-6 dm (decimetres) of water; 5.i.1907; slide 1404; [Howe collection number] 4759; pfa: Printz 1929, pl. 50, fig. 5; [Note: box marked 'N.Y.B.G. Nr 4759' [NY] and '*Gon. strictum* f. *typica*'. Adey & Lebednik 1967: 30 mistakenly give the Howe collection number as 4795]; **TRH A13-710.**

Howe; [United States]; Florida, Key West; free on somewhat sandy bottom in 0.5-1.0 metres of water at low tide; 6.xi.1902; one slide labelled with Howe collection number 1616; [no other collection data]; pfa: Printz 1929, pl. 50, figs 7-9; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box marked '*Gon. strictum* Fosl. f. *typica*' and 'ikke konc [= no conceptacles]'. Habitat data in box on Howe annotation slip. Photo of another Howe 1616 specimen in NY is housed in a separate envelope. Grouped with A13-713 under one entry in Adey & Lebednik 1967: 30]; **TRH A13-712.**

Howe; [United States]; Florida, Key West; [no habitat data]; 16.xi.1902; [no slides]; [Howe collection number] 1616; [no pfa]; [Note: box marked '*G. strictum* f. *typica*' and 'Exfol.!'. Collection includes small box marked 'til fotogr. [= for photography]'. Grouped with A13-712 under one entry in Adey & Lebednik 1967: 30]; **TRH A13-713.**

Howe; [United States]; Florida, Soldiers Key; on coral reef in 3 dm (decimetres) of water, low tide; 30.iii.1904; [no slides]; [Howe collection number] 2891; [no pfa]; [Note: box marked 'New York Botanical Garden' [NY]. Habitat data in box on Howe annotation slip]; **TRH A13-714.**

[Anon.]; Bahamas; [no other locality data]; [no habitat data]; [no date]; slide 497; herb. Farlow [FH], number XXIV, [comm. Farlow] 1900; [no pfa]; [Note: box marked 'ikke konc. [= no conceptacles]'. Annotation slip from Herb. W.G. Farlow marked '*Lithoth. calcareum*'; **TRH A13-715.**

[Anon.]; Vestindien [= West Indies]; St. Croix [now part of the U.S. Virgin Islands], Christiansteds havn [= the harbour of Christiansted]; [no habitat data]; 1905-1906; slide 1196; [no other collection data]; [no pfa]; [Note: box marked '*Gon. strictum* fere [= nearly] f. *nana* (forkrøblet [= dwarfed])'. The West Indies comprises three island groups: the Lesser Antilles (which includes the U.S. Virgin Islands), the Greater Antilles, and the Bahamas]; **TRH A13-716.**

[Anon.]; [United States]; Florida; [no habitat data]; [no date]; slide 476; 'ded. [= given by] Farlow 1889', number 2, ex. Herb. Bornet [PC]; [no pfa]; [Note: box marked 'Bornet herb.' and slide marked 'ex herb. Bornet'. 1889 probably is the date Farlow sent the material to Bornet]; **TRH A13-717.**

[Anon.]; [United States]; Florida, Key West; [no habitat data]; [no date]; slide 477; ex herb. Bornet [PC]; [no pfa]; [no notes]; **TRH A13-718.**

strictum, Goniolithon (f. nanum) [originally described as *Goniolithon strictum* f. *nanum* (Foslie & Howe 1906b: (131)), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 30 under species without mention of forma]. **Holotype:** NY, Howe collection 2235 (Woelkerling 1993: 156).

Howe; [Caicos Islands]; West Caicos; in a tidal pond, at low water mark; 20.xii.1907; slide 1702 'af største ekspl. [= of largest specimen]'; [Howe collection number] 5715; pfa: Printz 1929, pl. 49, figs 10-11; [Note: box marked 'N.Y.B.G. 5715' and 'West Caicos, B.W.I.' (= British West Indies) and '*Gon. spectabile* f. *nana* nærme sig [= close to] f. *intermedia*'. Habitat data in box on Howe annotation slip. Collection not included in Adey & Lebednik 1967. See Woelkerling 1993: 155 concerning the authorship of the name]; **TRH A13-699.**

Howe; Puerto Rico; San Juan; mostly in shallow tide pools; 28.v.1903; [one slide labelled with Howe collection number 2235]; New York Botanical Garden [NY] 2235 [Howe collection number]; pfa: Printz 1929, pl. 49, fig. 8; [Note: **Isotype** of *Goniolithon strictum* f. *nana* Foslie. Additional data — Woelkerling 1993: 156. Box marked 'New York Bot. Garden'

[**NY**]. Annotation slip in box has hand-written collection data and is imprinted 'New York Botanical Garden' and 'North American Marine Algae'. On the box, the specific epithet *strictum* (written by Foslie) is crossed out and the epithet *spectabile* (probably written by Printz) replaces it. See Woelkerling 1993: 155 concerning the authorship of the name *Goniolithon spectabile* f. *nana*. Collection includes one fragment in a small green quadratic box marked 'No. 2235'. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**. A photograph of the specimen in **NY** is housed in a separate envelope in Drawer A17. Collection listed under *Goniolithon spectabile* in Adey & Lebednik 1967: 30; **TRH A13-700**.

Case A, Drawer 14

assistum, *Goniolithon* [originally described as *Goniolithon assistum* (Foslie 1907b: 23), but not mentioned in Foslie's subsequent publications]. **Holotype**: **TRH**, A14-719 (see below).

Plate; [Egypt]; Röde hav [= Red Sea], Sinai, [Gulf of Suez], El Tor; collection depth: 1-3 metres; 1901-1902; slides 824, 1558; plate collection number 9, comm. Reinbold; pfa: Printz 1929, pl. 47, fig. 3; [Note: **HOLOTYPE** of *Goniolithon assistum* Foslie. Additional data — Woelkerling 1993: 32]; **TRH A14-719**.

boergesenii, *Goniolithon* [originally described as *Goniolithon boergesenii* (Foslie 1901a: 19), then (Foslie 1901c: 5) apparently transferred without change in rank into *Lithophylum*, then (Foslie 1904b: 51) apparently returned to *Goniolithon*, and finally (Foslie 1909b: 56) transferred without change in rank into *Hydrolithon*. Names on boxes not updated from *Goniolithon* to *Hydrolithon*, probably due to Foslie's death on 9.xi.1909]. **Lectotype**: **TRH**, A14-720 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; [no habitat data]; i-iii.1892; slide 366; [no other collection data]; pfa: Printz 1929, pl. 52, fig. 9; [Note: **Lectotype** of *Goniolithon boergesenii* Foslie. Additional data — Woelkerling 1993: 40. Adey & Lebednik 1967: 31 mistakenly list the slide number as '365']; **TRH A14-720**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; [no habitat data]; i-iii.1892; slide 365; [no other collection data]; [no pfa]; [Note: box marked '*Gon. boergesenii*'. Annotation slip in box marked 'maaske ogsaa lidt af [= perhaps also some of] *G. mamillare*'. Adey & Lebednik 1967: 31 mistakenly list the slide number as '366']; **TRH A14-721**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Long Reef ved [= near] Christiansted; [no habitat data]; 15.i.1906; slide 1199; Børgesen collection number 1272; [no pfa]; [Note: box and slide marked 'Børgesen 1272 delvis [= in part]']; **TRH A14-722**.

Howe; Bahamas; Berry Islands, Great Sturrops Cay; on corals and calcareous pebbles in 3 dm (decimetres) water, low tide, dull red or brick-coloured when living; 1.ii.1905; one slide labelled with Howe collection number 3630; New York Botanical Garden [**NY**] no. 3630 [Howe collection number]; pfa: Printz 1929, pl. 52, figs 7-8; [Note: box marked 'New York Bot. Garden' [**NY**] and '*Gon. boergesenii*'. Includes fragment from one individual placed in a separate box marked '*G. boergesenii* af ekspl. m. x [= from specimen marked x] nr. 3630, Bahamas' and 'Cyst. konc. fotogr. [= cystocarpic conceptacles photographed]'. Habitat data on Howe annotation slip in box]; **TRH A14-723**.

- Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on old echinoderm shell; 8.xii.1907; slide 1696; [Howe collection number] 5441; [no pfa]; [Note: box marked 'N.Y.B.G. 5441' **[NY]** and '*Gon. boergesenii* (ung [= young])' but annotation slip from Howe marked '*Lithophyllum prototypum*'. Grouped with A14-725 under one entry in Adey & Lebednik 1967: 30]; **TRH A14-724.**
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on coral pebble; 8.xii.1907; slide 1697; [Howe collection number] 5442; [no pfa]; [Note: box marked 'N.Y.B.G. 5442' **[NY]** and '*Gon. boergesenii* (ung [= young])'. Slide marked 'Bahamas' and 'Vestindien [= West Indies]'. The Bahamas is one of three island groups comprising the West Indies, the other two being the Greater Antilles and the Lesser Antilles. Collection grouped with A14-724 under one entry in Adey & Lebednik 1967: 30]; **TRH A14-725.**
- Howe; [Caicos Islands]; Cockburn Harbor, South Caicos [Island]; on pebbles, near low water mark; 15.xii.1907; slide 1700; [Howe collection number] 5570; pfa: Printz 1929, pl. 52, fig. 10; [Note: box marked 'N.Y.B.G. 5570' **[NY]** and '*Gon. boergesenii*' and 'South Caicos, B.W.I.' (B.W.I. = British West Indies). Habitat information on annotation slip in box. Adey & Lebednik 1967 list locality as St Caicos Island, West Indies]; **TRH A14-726.**
- Howe; Jamaica; Lime Cay, near Kingston Harbor; on fragments of coral, etc.; 16.xii.1906; slide 1378; [Howe collection number] 4448; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box marked 'danner delvis overgang til [= forms partly grading into] *G. improcerum*'. Habitat information on annotation slip in box]; **TRH A14-727.**
- Howe; Jamaica; Lime Cay, near Kingston Harbor; on fragment of coral; 16.xii.1906; slide 1379; [Howe collection number] 4450; [no pfa]; [Note: box marked 'N.Y.B.G. Nr 4450' **[NY]** and '*Gon. boergesenii* delvis over anden art og her og der med sopagtige overtræk [= *Gon. boergesenii* partly over another species and here and there with fungous cover]'. Habitat information on annotation slip in box]; **TRH A14-728.**
- Howe; Jamaica; near Montego Bay; on coral pebbles in 3 dm (decimetres) of water, on reef; 19.i.1907; slide 1467; [Howe collection number] 5041; [no pfa]; [Note: box marked 'N.Y.B.G.' **[NY]** and '*Gon. boergesenii* (delvis over anden art [= partly over another species])' and 'cystoc.? [= cystocarpic]'. Slide marked '*Gon. boergesenii* (delvis [= in part])']; **TRH A14-729.**
- Howe; Puerto Rico; San Juan; on coral in 5 dm (decimetres) of water at low tide; 2.vi.1903; one slide labelled with Howe collection number 2296; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]** and '*Gon. boergesenii*'. Adey & Lebednik 1967: 30 mistakenly list '2246' as the Howe collection number]; **TRH A14-730.**
- Lagerheim; Barbados; [no other locality data]; [no habitat data]; xii.1892; slide 535; [no other collection data]; [no pfa]; [Note: box marked 'ung [= young] *Gon. boergesenii*'. Geographic locality given on box as 'Vestindien Barbados'. Barbados is part of the Lesser Antilles, one of the three island groups comprising the West Indies, along with the Greater Antilles and the Bahamas]; **TRH A14-731.**
- [Anon.]; Jamaica; [no other locality data]; [no habitat data]; 1900 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Gon. boergesenii*' and 'Dr. Fawcett --- [unreadable] F.S. Collins'. Confusion attends the collection date. Annotation slip in box marked 'P.S. Collins, Malden, Mass. 1900', but based on information in Collins (1901: 233), this material probably was collected by J.E. Duerden on 3.v.1901 near Kingston, and the material was forwarded to Collins by Dr William Fawcett. Collins then presumably sent the material to Foslie. Adey & Lebednik 1967: 31 list Collins as the collector]; **TRH A14-732.**
- boergesenii*, *Goniolithon* (f. *africana*)** [originally described as *Goniolithon boergesenii* f. *africana* (Foslie 1907a: 20), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967 30 under species without mention of forma]. **Holotype:** TRH, A14-733 (see below).

Gravier; Afrika [= Africa], [São Tomé and Príncipe]; São Tomé [Island]; 'delvis over [= partly over] *Lithoph. subten.*'; [no date on box, but see Note]; slide 1265; Mus. d'h. natur. Paris [PC], comm. Hariot 1907, number 6; [no pfa]; [Note: **Holotype** of *Goniolithon boergesenii* f. *africana* Foslie. Additional data — Woelkerling 1993: 23 and Woelkerling 1998c: 290. According to Woelkerling (1998: 290), the precise type locality is Bella Vista and the collection date is 22.viii.1906]; **TRH A14-733**.

***brassica-florida*, *Goniolithon* (f. *laccadivica*).** See listing below for *laccadivicum*, *Goniolithon*.

breviclavium*, *Goniolithon [originally described as *Goniolithon breviclavium* (Foslie 1907a: 20) but subsequently (Foslie 1909b: 56) transferred without change of rank into *Hydrolithon*]. **Holotype:** TRH, A14-734 (see below).

[Anon.]; [Hawaiian Islands]; [Hawaii], Honolulu; [no habitat data]; [no date]; slides 1368, 1371, 1426, 1452; Eugenie Expedition (?); pfa: Printz 1929, pl. 52, figs 14-15; [Note: **Holotype** of *Goniolithon breviclavium* Foslie. Additional data — Woelkerling 1993: 44. Box marked '*Goniolithon (Hydrolithon) breviclavium*'. Box marked 'præp. 1371 af største ekspl. m/konc. [= slide 1371 of largest specimen with conceptacles]' and 'præp. 1368 og 1452 (skorpe) af delte ekspl. [= slide 1368 and 1452 (crust) of divided specimen]' and 'præp. 1426 af mindste ekspl. [= slide 1426 of smallest specimen]'. Adey & Lebednik 1967: 30 omit mention of slide '1371' and mistakenly list slide '1452' as 1492. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH A14-734**.

dispalatum*, *Goniolithon [originally described as *Goniolithon dispalatum* (Foslie & Howe in Foslie 1908f: 6), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A14-735 (see below).

Howe; Bahamas; Atwood (Sanana) Cay; on rocks at l.t. (low tide); 3.xii.1907; slide 1676; [Howe collection number] 5243; pfa: Printz 1929, pl. 47, fig. 4; [Note: **Holotype** of *Goniolithon dispalatum*. Additional data — Woelkerling 1993: 76. Box marked 'N.Y.B.G. 5243' [NY]. Collection includes two annotation slips, one marked 'cfr. [= cf.] no 5329' (Howe collection 5329 – see A14-736) and one marked 'præp. [= slide] 1676 som [= as] 1681 f. typical' (slide 1681 is in A14-736)]; **TRH A14-735**.

***dispalatum*, *Goniolithon* (f. *subsimplex*)** [originally described as *Goniolithon dispalatum* f. *subsimplex* (Foslie & Howe in Foslie 1908f: 7), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 31 under species without mention of forma]. **Holotype:** TRH, A14-736 (see below).

Howe; Bahamas; Atwood (Sanana) Cay; at low water mark, forming coarse submamiform or subterete decutesent knobs; 4.xii.1907; slides 1680-1681; [Howe collection number] 5329; pfa: Printz 1929, pl. 47, figs 5-7; [Note: **Holotype** of *Goniolithon dispalatum* f. *subsimplex* Foslie. Additional data — Woelkerling 1993: 213 – 214. Box marked 'N.Y.B.G. 5329' [NY]. Habitat data is on annotation slip in box]; **TRH A14-736**.

elatocarpum*, *Goniolithon [originally described as *Goniolithon elatocarpum* (Foslie 1900a: 23), where Foslie retained it in publication. The only collection of *Goniolithon elatocarpum* f. *australasica* is filed in Drawer B2]. **Holotype:** TRH, A14-737 (see below).

Tyson; [South Africa]; Cape of Good Hope; [no habitat data]; 20.iv.1895; slides 344, 847; ex herb. British. Mus. [BM], 1899, number 17b; pfa: Printz 1929, pl. 47, fig. 1; [Note: **Holotype** of *Goniolithon elatocarpum* Foslie. Additional data — Woelkerling 1993: 83 (who

mistakenly lists the **BM** number as 17a), and Chamberlain & Keats 1995: 144. Collection includes small box containing conceptacle-bearing fragments and two photos showing the specimen depicted in Printz 1929, pl. 47, fig. 1. Another slide, also numbered 847 by Foslie, accompanies the type collection of *Lithophyllum byssoides* f. *ramosissima* (A4-182)]; **TRH A14-737**.

Weber-van Bosse; Vest-Afrika [= West-Africa], [i.e. Republic of South Africa]; Port Nolloth (nær Kap [= near Cape]); [no habitat data]; ix.1894; slide 711; [no other collection data]; [no pfa]; [Note: box marked '*G. notarisii elatocarpum?* (s. med [= mixed with] *L. marlothii*)']; **TRH A14-738**.

fosliei, *Goniolithon* [originally described as *Lithothamnion fosliei* (Heydrich 1897a: 58) but subsequently (Foslie 1898b: 4) transferred without change in rank into *Archaeolithothamnion*, then (Foslie 1900c: 240) into *Lithophyllum*, and then (Foslie 1903c: 470) into *Goniolithon*), and retained by Foslie in that genus in subsequent publications]. **Lectotype**: **TRH**, A14-742 (see below).

Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; 26.vii.1899; slide 763; [no other collection data]; [no pfa]; [Note: box marked 'præp. 763 af ekspl. sprit [= slide 763 from spirit specimen]' and 'sp. koncept. [= sporangial conceptacles]']; **TRH A14-739**.

Gardiner; Malediverne [= Maldivian Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 748 '(af ekspl. mk x. [= of specimen marked x])'; comm. Gardiner; pfa: Foslie 1903c, pl. 25 [mistakenly listed as pl. 2 on box], fig. 3; [Note: Adey & Lebednik 1967: 31 mistakenly list the collection date as '26.vii.1899']; **TRH A14-740**.

Jousseau; [Djibouti]; Gulfe de Tadjura [= Gulf of Tadjoura], Djibuti + Obock; [no habitat data]; 1897; slides 22, 28, 36; ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked 'n. 4 – præp. [= slide] 22, 36' and 'n. 7 – præp. [= slide] 28'. Slides marked 'Røde hav [= Red Sea]', contrary to information on box lid]; **TRH A14-741**.

[Kaiser]; [Egypt]; Røde hav [= Red Sea], [Gulf of Suez], El Tor; [no habitat data]; [no date]; [slides 21, 35, and two newer unnumbered slides prepared by G.W. Maneveldt]; F. Heydrich no. 59; pfa: Foslie 1904b, pl. 9, fig. 1, and Printz 1929, pl. 46, fig. 1; [Note: **Lectotype** of *Lithothamnion fosliei* Heydrich. Additional data — Woelkerling 1987b: 147, Penrose 1992b: 339, Woelkerling 1993: 97, Verheij 1994: 113, 115, and Mateo-Cid & Pedroche 2004: 183. Box marked '11, 12, 59, 60, 1, 80, 97'. 'Kaiser' is listed as collector in protologue (Heydrich 1897a: 58-60), but Adey & Lebednik 1967: 31 mistakenly list 'Heydrich' as collector]; **TRH A14-742**.

Plate; [Egypt]; Røde Hav [= Red Sea], Sinai, [Gulf of Suez], El Tor; [no habitat data]; [no date]; slides 822-823; Plate collection 29, comm. Reinbold 1903; [no pfa]; [Note: box marked '*Gon. fosliei* forma' and '*G. myriocarpon?*'. Grouped with A14-744 under one entry in Adey & Lebednik 1967: 31]; **TRH A14-743**.

Plate; [Egypt]; Røde Hav [= Red Sea], Sinai, [Gulf of Suez], El Tor; [no habitat data]; [no date]; slide 821; Plate collection 29a, comm. Reinbold 1903; [no pfa]; [Note: grouped with A14-743 under one entry in Adey & Lebednik 1967: 31]; **TRH A14-744**.

Schimper; Seychellerne [= Seychelles Islands]; Mahé; 'liden skorpe paa koral [= small crust on coral]'; 1898-1899; [no slides]; Exp. Valdivia [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: habitat information on annotation slip in box. Collector not mentioned in Adey & Lebednik 1967: 31]; **TRH A14-745**.

Stuhlmann; [Tanzania]; Zanzibar [Island]; [no habitat data]; 1895; slides 586-587; ex herb. Bot. Mus. Hamburg [**HBG**]; pfa: Foslie 1904b, pl. 9, fig. 4, and Printz 1929, pl. 46, fig. 4; [Note: box marked 'Wahrscheinlich von [= probably from]' in relation to geographic region]; **TRH A14-746**.

[Weber-van Bosse]; [Indonesia]; [Borneo], Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 86; [no pfa]; [Note: box marked 'Cyst.

konc.! [= cystocarpic conceptacles!]. Grouped with A14-748 under one entry in Adey & Lebednik 1967: 31]; **TRH A14-747**.

[Weber-van Bosse]; [Indonesia]; [Borneo], Muaras Reef; [no habitat data]; 22.vi.1899; one slide numbered 82; Siboga-Expe. Stat. 91, collection number 80-86; pfa: Foslie 1904b, pl. 9, fig. 3 [marked on slide but not on box]; [Note: box marked 'Brudst. af [= fragments of] S. E. 80-86'. Collection includes specimens numbered 80, 81, 82 & 86 and one unnumbered specimen. Slide marked 'anth.! [= antheridia!] = pl. IX, f. 3. *Gon. fosliei*, Siboga-Expe. Stat. 91, S.E. 82, Muaras Reef. 22.VI.1899.'. Grouped with A14-747 under one entry in Adey & Lebednik 1967: 31]; **TRH A14-748**.

[Anon.]; [Saudi Arabia]; Mer Rouge [= Red Sea], Djedda; [no habitat data]; [no date]; slide 23; 'Hauck ded. [= given by Hauck] 1878', ex herb. Thur. - Born. [PC]; [no pfa]; [Note: Adey & Lebednik 1967: 31 mistakenly list 'Hauck' as the collector and '1878' as the collection date]; **TRH A14-750**.

improcerum, Goniolithon [originally described as *Goniolithon improcerum* (Foslie & Howe in Foslie 1907b: 24) but subsequently (Foslie 1909b: 55) transferred without change in rank into *Hydrolithon*. Names on boxes not updated from *Goniolithon* to *Hydrolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, A14-752 (see below).

Howe; Bahamas; Mariguana [= Mayaguana] [Island], 10 miles west of Abraham Bay; on corals in 3-6 dm (decimetres) of water; 5.xii.1907; slide 1686; [Howe collection number] 5336; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box marked '*Gon. propinquum* f. *delvis* overvokset [= partly covered by] *Gon. (Hydrol.) improcerum*'. Annotation slip in box from Howe marked '*Goniolithon* (crustaceous)' Habitat information also on annotation slip in box]; **TRH A14-751**.

Howe; Jamaica; Montego Bay; on a littoral reef; 5.i.1907; slides 1405-1406, 1513 and two slides numbered 1514; [Howe collection number] 4760b; pfa: Printz 1929, pl. 52, figs 12-13; [Note: **Holotype** of *Goniolithon improcerum* Foslie & Howe in Foslie. Additional data — Woelkerling 1993: 122. 'New York Botanical Garden' [NY] printed on slip affixed to lid of original green quadratic box. Green quadratic box marked 'Præp. 1405 af *Gon. Præp. 1406 af kalkmasse ved xx. [= slide 1405 of *Gon.* Slide 1406 of calcareous mass at xx]' and '(kun brudst. beh. af fig. 10 [= only fragments treated in fig. 10])'. 'North American Marine Algae' and 'Distributed from the Herbarium of the New York Botanical Garden' printed on two annotations slips. Both slips also have printed collector, locality, habitat and date data and both have the hand-written number '4760b'. One slip also marked by hand with 'Bright brick-red when living'. Collection includes one specimen/fragment in one small round original box marked 'No. 4760' and '*Gon. improcerum*'. and 'Sp. konc. fotog. [= sporangial conceptacles photographed]'. Collection also includes fragments in a second small round original box marked 'no. 4760b' and 'Af return. ekspl. [= from returned specimen]' and '(Afb. s. med først modt. ekspl. [= photographed together with the first received specimen]' and 'Præp. [= slides] 1513-14'); **TRH A14-752**.*

laccadivicum, Goniolithon [originally described as *Goniolithon brassica-florida* f. *laccadivica* (Foslie 1903c: 469), but subsequently (Foslie 1904b: 51) elevated to species rank (as *Goniolithon laccadivicum*) and retained in that genus except for one apparently 'unintentional' citation (Foslie 1907a: 16) as *Lithophyllum laccadivicum*]. **Lectotype:** TRH, A14-753 (see below).

Gardiner; Laccadive Islands; Minikoi Atoll; [no habitat data]; vii.1899; slide 765; comm. Gardiner; pfa: Foslie 1903c, pl. 25 [mistakenly listed as pl. 2 on box], fig. 7, and Foslie 1904b, pl. 9, fig. 10, and Printz 1929, pl. 46, fig. 12; [Note: **Lectotype** of *Goniolithon brassica-florida* f. *laccadivica* Foslie. Additional data — Woelkerling 1993: 134, and Verheij 1994: 113, 115. Slide marked '*Goniolithon brassica-florida* f. *laccadivica*' and '*Mastoph. melob.*']; **TRH A14-753**.

- Rechinger; Samoa; Upolú Island, Apia; 'korallenriff bei [= coral reef]'; ix.1905; slide 1106; [no other collection data]; [no pfa]; [Note: box marked 'nr 5117 delvis [= in part]' and 'konc. fotogr. [= conceptacles photographed]'. Collector's name incorrectly spelled on box as 'Reichinger'. Listed under *Goniolithon fosliei* in Adey & Lebednik 1967: 31]; **TRH A14-754.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; one slide labelled S.E. 41 (Siboga Expedition collection number); Siboga Expedition, station 91, collection 41; [no pfa]; [no notes]; **TRH A14-756.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; one slide labelled S.E. 66, stat. 91 (Siboga Expedition collection and station number); Siboga Expedition, station 91, collection 66; pfa: Foslie 1904b, pl. 9, fig. 13; [Note: collection consists only of the slide. Mistakenly listed under *Goniolithon fosliei* in Adey & Lebednik 1967: 31]; **TRH A14-757.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 93; [no pfa]; [Note: box lid marked 'præp. [= slide]' but no slide was found with collection]; **TRH A14-758.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; one slide labelled 94 S.E. 91 (Siboga Expedition collection and station number); Siboga Expedition, station 91, collection 94a; [no pfa]; [Note: during the present study a small box containing three fragments and marked 'Stat. 91, S.E. 94' and 'Gon.' was found in B25-2758. As there is no Siboga Expedition collection numbered 94 in Foslie's herbarium, the box seemed best placed with A14-759 (which involves collection 94a) pending clarifying studies]; **TRH A14-759.**
- [Weber-van Bosse]; [Indonesia]; Kei Islands, Tual [anchorage]; [no habitat data]; 12.-16.xii.1899; one slide labelled S.E. 1284 (Siboga Expedition collection number); Siboga Expedition, station 258, collection 1284; [no pfa]; [no notes]; **TRH A14-760.**
- [Weber-van Bosse]; [Indonesia]; Rotti Island, Pepela Bay; [no habitat data]; 30.i.1900; one slide labelled 498 S.E. 301 (Siboga Expedition collection and station number); Siboga Expedition, station 301, collection 498; pfa: [Foslie 1904b], pl. 9, fig. 12; [Note: listed under *Goniolithon fosliei* in Adey & Lebednik 1967: 31]; **TRH A14-761.**
- [Anon.]; Karolinerne [= Caroline Islands]; [no other locality data]; [no habitat data]; [no date]; slide 859; Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked '~~Gon. brassica florida~~, ~~Gon. mamillare~~ G. laccadivica (?) delvis [= in part]' and 'anth. konc. [= antheridial conceptacles]']; **TRH A14-762.**

***laccadivicum*, *Goniolithon* (f. *armata*)** [originally described as *Goniolithon laccadivicum* f. *armata* (Foslie 1907a: 16) and retained by Foslie in that genus and species without further mention in publication. Collection listed in Adey & Lebednik 1967: 31 under species without mention of forma]. **Holotype:** TRH, A14-763 (see below).

Agassiz; Gambier Islands; Mangareva (ca 135° W 23°S); [no habitat data]; 3.ii.1905; slide 1500 and two slides numbered 1501; comm. Farlow 1907, number 18; pfa: Printz 1929, pl. 46, figs 15-16; [Note:**Holotype** of *Goniolithon laccadivicum* f. *armata* Foslie. Additional data — Woelkerling 1993: 30. Box marked '*Lithoph. laccadivicum* f. *armata*' and 'Gambier Isl. Mangareva eller [= or] Thaiti'. Annotation slip in box marked] 'præp. 1500 af mindste ekspl. Præp. 1501 af største gj. to grene [= slide 1500 of smallest specimen. Slide 1501 of largest through two branches]'; **TRH A14-763.**

***laccadivicum*, *Goniolithon* (f. *litoralis*)** [originally described as *Goniolithon mamillare* f. *litoralis* (Foslie 1902a: 7) but subsequently (Foslie 1909b: 11) transferred without change in rank into *Goniolithon laccadivicum* as *G. laccadivicum* f. *litoralis*. Collections listed in Adey & Lebednik 1967: 31 under species without mention of forma]. **Lectotype:** TRH, A14-765 (see below).

Setchell; [United States]; California, San Pedro, Point Fermin; in hollows near high-water mark but just below it; xii.1895; slide 419; Setchell collection number 1147; [no pfa]; [Note: box marked '(1074, 1084A, 1147, 1148, 1149)' [a series of Setchell collection numbers]. See B15-2368 for 1074, A23-1402 for 1084A, B2-1681 for 1148 and B15-2379 for 1149]; **TRH A14-764.**

Snyder; [United States]; California, Pacific Beach near San Diego; littoral region; [no date]; slide 644; comm. F.S. Collins in 1901, number 6; pfa: Printz 1929, pl. 46, fig. 17; [Note: **Lectotype** of *Goniolithon mamillare* f. *litoralis*. Additional data: Woelkerling 1993: 138. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-749, A14-755, A14-1114, A14-1166, A14-1177, A14-1182) of f. *litoralis*]; **TRH A14-765.**

Snyder; [United States]; California, Pacific Beach near San Diego; littoral region; [no date]; slide 641; comm. F.S. Collins in 1901, number 1-2; pfa: Printz 1929, pl. 46, fig. 18; [Note: box marked '*G. brassica-florida mamillare laccadivicum* f. *litoralis*'. Slide marked '*G. brassica-florida mamillare*?'. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-755, A14-765, A14-1114, A14-1166, A14-1177, A14-1182) of f. *litoralis*]; **TRH A14-749.**

Snyder; [United States]; California, Pacific Beach near San Diego; littoral region; [no date]; slide 642; comm. F.S. Collins in 1901, number 3; [no pfa]; [Note: box marked '*G. brassica-florida mamillare laccadivicum* f. *litoralis*'. Slide marked '*G. brassica-florida mamillare* f. *litoralis*?'. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-749, A14-765, A14-1114, A14-1166, A14-1177, A14-1182) of f. *litoralis*]; **TRH A14-755.**

Snyder; [United States]; California, Pacific Beach near San Diego; littoral region; [no date]; slide 643; comm. F.S. Collins in 1901, number 4; [no pfa]; [Note: box marked '*G. brassica-fl. mamillare* + f. *litoralis*??'. Slide marked '*G. brassica-florida mamillare*' and with another unreadable, crossed out name followed by two question marks. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-749, A14-755, A14-765, A14-1166, A14-1177, A14-1182) of f. *litoralis*]; **TRH A14-1114.**

Snyder; [United States]; California, Pacific Beach near San Diego; littoral region; [no date]; slide 646; comm. F.S. Collins in 1901, number 8; [no pfa]; [Note: box marked '*G. brassica-florida mamillare laccadivicum* f. *litoralis*'. Slide marked '*G. brassica-florida mamillare* f. *litoralis*'. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-749, A14-755, A14-765, A14-1114, A14-1177, A14-1182) of f. *litoralis*]; **TRH A14-1166.**

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data, but presumably collected in the littoral region]; [no date]; [no slides]; comm. F.S. Collins in 1901, number 11; [no pfa]; [Note: box marked '*G. brassica-fl mamillare laccadivicum* f. *litoralis*'. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-749, A14-755, A14-765, A14-1114, A14-1166, A14-1182) of f. *litoralis*]; **TRH A14-1177.**

Snyder; [United States]; California, Pacific Beach near San Diego; littoral region; [no date]; [no slides]; comm. F.S. Collins in 1901, number L; [no pfa]; [Note: box marked '*G. mamillare laccadivicum* f. *litoralis*'. Grouped in Adey & Lebednik 1967: 31 as one entry under *Goniolithon laccadivicum* with six collections (A14-749, A14-755, A14-765, A14-1114, A14-1166, A14-1177) of f. *litoralis*]; **TRH A14-1182.**

***mamillare*, *Goniolithon* (f. *litoralis*).** See listing above for ***laccadivicum*, *Goniolithon* (f. *litoralis*).**

reinboldii*, *Goniolithon [originally described as *Lithophyllum reinboldii* (Weber-van Bosse & Foslie in Foslie 1901c: 5), but subsequently (Foslie 1904b: 49) transferred without change in rank into *Goniolithon* and then (Foslie 1909b: 55) into *Hydrolithon*. Names on

boxes not updated from *Goniolithon* to *Hydrolithon*, probably due to Foslie's death on 9.xi.1909]. **Lectotype: TRH, A14-775** (see below).

- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; 26.vii.1899; slide 752; comm. Gardiner; [no pfa]; [Note: box marked '*L. reinboldii* ung [= young]' and 'Cyst. konc. [= cystocarpic conceptacles]'. Adey & Lebednik 1967: 32 mistakenly list the 'Maldive Islands' as the collection locality]; **TRH A14-767.**
- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; vii.1899; nine slides all numbered 764; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'E. Mus. Acard. Cantabrigiae. E. coll. J.S. Gardiner. Reg June 20, 1900.' and '3'. Adey & Lebednik 1967: 32 mistakenly list the 'Maldive Islands' as the collection locality]; **TRH A14-768.**
- Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 745; comm. Gardiner; pfa: Foslie 1903c, pl. 1, fig. 4; [no notes]; **TRH A14-766.**
- Jadin; Mauritius; [no other locality data]; 'paa [= on] *Lithoph. oncodes*'; viii.1890; [no slides]; Jadin collection number 559; [no pfa]; [Note: box marked '*G. reinboldii*' and 'Paa [= on] *Lithoph. oncodes*' and 'Se præp. og ekspl. under sidstn. [= see slide and specimen of the last-named]'. The Jadin collection of *Lithophyllum oncodes* is in Drawer A26 (A26-1506)]; **TRH A14-769.**
- Tilden; Hawaiian Islands; Oahu, Wailua; rose-pink corrugated pebbles lying loose in crevices and cracks in reef; 11.vi.1900; slide 794; Tilden collection numbers 99A & B, comm. Prof. Kjellman ii.1902; [no pfa]; [Note: box marked '(s.med.[= mixed with] *L. verrucos?*)'. Adey & Lebednik 1967: 32 mistakenly list 'Kjellman' as collector and do not mention Tilden]; **TRH A14-770.**
- Rechinger; [Hawaiian Islands]; [Hawaii], Honolulu, Waikiki; [no habitat data]; 1905; slides 1094, 1098; [no other collection data]; [no pfa]; [Note: box marked 'præp. 1094 af brudst. af lidet return. ekspl. [= slide 1094 of fragments of small returned specimen]'. Adey & Lebednik 1867: 32 mistakenly list collector as 'Reichinger']; **TRH A14-771.**
- Rechinger; Samoa; Upolú Island, near Apia; coral reefs; vi.1905; slides 1109-1110, 1112; [no other collection data]; [no pfa]; [Note: slides and specimens marked '1109', '1110' and '1112'. Box marked '5109-10, 5114 delvis [= in part]', but no specimens with those numbers are in box. Adey & Lebednik 1867: 32 mistakenly list collector as 'Reichinger']; **TRH A14-772.**
- Stuhlmann; [Tanzania]; Zanzibar Island, Changu-Riff; [no habitat data]; 1.xii.1888; slide 591; ex Bot. Mus. Hamburg 1901 [**HBG**]; [no pfa]; [Note: box marked 'brudstk. [= fragments]' and 'c. Dr. Stuhlmann'. It is uncertain whether Stuhlmann collected the material or only communicated it]; **TRH A14-773.**
- [Weber-van Bosse]; [Indonesia]; Banda [Sea], Taam [Island]; [no habitat data]; [no date]; slides 163, 714, 748 [missing]; Siboga Expedition, station 252, collections 19, 163, 931; pfa: Printz 1929, pl. 52, fig. 5; [no notes]; **TRH A14-774.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 38; [no pfa]; [Note: **Lectotype** of *Lithophyllum reinboldii* Weber-van Bosse & Foslie in Foslie. Additional data — Penrose & Woelkerling 1988: 161, Penrose & Woelkerling 1992: 83, Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 188. Box is marked 'Siboga Exp. 38 & 74 Stat. 91'. Specimen 74 was found in a separate box and is treated as a distinct collection (A14-777)]; **TRH A14-775.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 57; [no pfa]; [Note: **Isolectotype** of *Lithophyllum reinboldii* Weber-van Bosse & Foslie in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 188. Collection not listed in Adey & Lebednik 1967. Collection was on loan during catalogue preparation. Entry prepared from information in Woelkerling 1993. Information on any annotation slips present was not accessible]; **TRH A14-776.**

- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 74; [no pfa]; [Note: **Isolectotype** of *Lithophyllum reinboldii* Weber-van Bosse & Foslie in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 188. Collection was on loan during catalogue preparation. Entry prepared from information in Woelkerling 1993. Information on any annotation slips present was not accessible]; **TRH A14-777**.
- [Weber-van Bosse]; [Indonesia]; Labuan Tring, Lombok; [no habitat data]; 19-21.iii.1899; one slide labelled with Siboga Expedition collection number 947; Siboga Expedition, station 19, collection 947; [no pfa]; [Note: collection consists only of slide]; **TRH A14-778**.
- [Weber-van Bosse]; [Indonesia]; Saleyer; [no habitat data]; x.1899; one slide labelled with Siboga Expedition collection number 1277; Siboga Expedition, station 213, collection 1277; [no pfa]; [Note: collection consists only of slide]; **TRH A14-781**.
- [Weber-van Bosse]; [Indonesia]; east coast of Sula Besi, Sanana Bay; [no habitat data]; 13-14.ix.1899; one slide with Siboga Expedition collection number 709; Siboga Expedition, station 193, collection 709; [no pfa]; [no notes]; **TRH A14-779**.
- [Weber-van Bosse]; [Indonesia]; Sulu Arch., Tawi-Tawi Island, Pulu, Sanguisiapo; [no habitat data]; 24.-25.vi.1899; one slide labelled with Siboga Expedition collection number 1061; Siboga Expedition, station 93, collection 1061; [no pfa]; [Note: collection consists only of slide]; **TRH A14-780**.
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15-17.i.1900; one slide labelled with Siboga Expedition collection number 687; Siboga Expedition, station 282, collection 687; [no pfa]; [Note: collection consists only of one slide. Detailed locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH A14-782**.
- [Anon.]; Caroline Islands; (Pacific); [no habitat data]; [no date]; slide 854; [ex] Bot. Mus. Hamburg [**HBG**], comm. Reinbold; [no pfa]; [Note: box marked '(ekspl. return. [= specimen returned])'. Adey & Lebednik 1967: 32 mistakenly list 'Reinbold' as the collector]; **TRH A14-783**.
- [Anon.]; Samoa [= Samoa Islands]; [no other locality data]; [no habitat data]; [no date]; slide 588; Mus. Godeffroy, ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked 'brudstk. [= fragments]'. The Samoa Islands include the nation of Samoa and American Samoa (a dependency of the United States)]; **TRH A14-784**.
- [Anon.]; [Society Islands]; Tahiti, [no other locality data]; [no habitat data]; [no date]; slide 1416; [ex] Mus. Paris [**PC**], [comm.] Hariot iv.1907, number 11; [no pfa]; [Note: Adey & Lebednik 1967: 32 mistakenly list 'Hariot' as collector and '1907' as the collection date]; **TRH A14-785**.

Case A, Drawer 15

During the present study, many loose notes containing information on cell or conceptacle dimensions and two notes with collection and locality information were found that could not be linked to any particular collection. These have been placed in an envelope marked 'Loose notes found in Drawer A15'. In addition, several sheets with information on collections from different localities. These have been placed in an envelope marked 'Loose sheets found in Drawer A15'. Finally one loose photo marked *L. melobesioides* was found in Drawer A15 and has been placed in an envelope marked 'Loose photo found in Drawer A15'.

caulerpae, Melobesia [originally described as *Melobesia caulerpae* (Foslie 1906b: 16), but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Name on box not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, A15-786 (see below).

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone, on *Caulerpa sedoides*; vi.1904; [no slides]; 6080a [Setchell collection number]; [no pfa]; [Note: **Holotype** of *Melobesia caulerpae* Foslie. Additional data — Woelkerling 1993: 49, who mistakenly gives the type locality as the 'Bay of Islands'. Collection includes small box marked 'konc. til fotogr. [= conceptacles for photography]' rediscovered during present study. Listed under *Melobesia lejolisii* in Adey & Lebednik 1967: 35]; **TRH A15-786**.

coronata, Melobesia [originally described as *Melobesia coronata* (Rosanoff 1866a: 64), but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype: CN**, unnumbered (Chamberlain 1994: 141).

[Anon.]; Australia; [Victoria], Port Phillip; on *Pollexfenia pedicellata*; [no date]; [no slides]; herb. Lebel, ex herb. Mus. Paris [**PC**]; [no pfa]; [Note: packet marked '*Melobesia farinosa* Lam. = *Melob. coronata* Rosan. MF 7-08'. 'MF' denotes M. Foslie, and '7-08' means that Foslie identified the material in July 1908]; **TRH A15-788**.

[Anon.]; Australia; [no other locality data]; on *Pollexfenia*; [no date]; two unnumbered slides; ex herb. Le Jolis [**CHE**]; [no pfa]; [Note: annotation slip in box marked 'dedet Lenormand'. Collection not included in Adey & Lebednik 1967]; **TRH A15-789**.

[Anon.]; Australia; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Mus. Paris [**PC**]; [no pfa]; [Note: box marked '*Melob. farinosa* Lam. = *M. coronata* Ros.']; **TRH A15-787**.

[Anon.]; Nou. Holland [= New Holland, now Australia]; [no other locality data]; [no habitat data]; [no date]; [no slides]; herb. Lebel, ex herb. Mus. Paris [**PC**]; [no pfa]; [Note: box marked '*Melobesia farinosa* Lamx. = *Melob. coronata* Rosan MF 7-08'. 'MF' denotes M. Foslie and '7-08' means that Foslie identified the material in July 1908]; **TRH A15-790**.

coronata, Melobesia (f. zonata) [originally described as *Melobesia coronata* f. *zonata* (Foslie 1902a: 9) but the form *zonata* not formally transferred when Foslie (1909b: 56) transferred the species from *Melobesia* into *Heteroderma*]. **Holotype: TRH**, A15-791 (see below).

Brumsert; [Australia]; South Australia, Port Elliot; 'paa [= on] *Lenormandia spectabilis*'; [no date]; one unnumbered slide; comm. Reinbold 1902; [no pfa]; [Note: **Holotype** of *Melobesia coronata* f. *zonata* Foslie. Additional data — Woelkerling 1993: 238, and Woelkerling 1997: 252. Slide marked '*Melobesia pachyderma* Fosl. *coronata* f. *zonata*'. Collection not included in Adey & Lebednik 1967]; **TRH A15-791**.

cymodocea, Melobesia [originally described as *Melobesia cymodocea* (Foslie 1901a: 23), but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Lectotype: TRH**, A15-797 (see below).

Appleyard; Australia; Western Australia, Albany, King George's Sound; [no habitat data]; 1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia cymodocea?*' and '(Dækceller [= cover cells (epithallial cells)] 3.08.)'. '3.08.' probably denotes the date of identification (March 1908)]; **TRH A15-792**.

Binder; Nov. Hollandia [= New Holland, now Australia]; [no other locality data]; on *Amphibolis bicornis*; [no date]; [no slides]; Coll. Algar. C.M. Diesing 1848, leg. comm. Binder; [no pfa]; [Note: box marked '*Melobesia membranacea*' and '= *M. cymodocea*'. 'Binder' is listed as the collector on the box lid but it is uncertain whether he ever visited Australia. Adey &

- Lebednik 1967: list 'Diesing' as the collector and '1848' as the collection date]; **TRH A15-793.**
- Engelhart; [Australia]; Sydaustralien [= South Australia], Cape Jaffa, Kingston; 'paa [= on] eelgras'; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*M. lejolisii?*-*M. cymodocea?*']; **TRH A15-794.**
- [Ferlus]; Madagascar; Cap St. André, [Beloleaka]; [no habitat data]; [viii].1899; one unnumbered slide; ex herb. Mus. Paris [**PC**]; [no pfa]; [Note: packet marked '*M. lejolisii* Har. Bull 1902 p. 572 = *M. cymodocea?*' and 'nærmere sig [= grading into] *M. farinosa* f. *mauritiana* men finder ej [= but cannot find] heteroc. [= heterocysts (trichocytes)]'. Slide marked '*Melobesia cymodocea farinosa* fere [= nearly] f. *maurit.*?'. According to Hariot (1902: 172), Ferlus collected the material at Beloleaka in August 1899]; **TRH A15-795.**
- Mueller; Australia; Victoria, Port Phillip; 'paa blade af [= on blades of] *Cymodocea antarctica?*'; 1862; four unnumbered slides; ex herb. Wille [**O** and other locations, according to Stafleu & Cowan 1988: 306]; [no pfa]; [Note: **Lectotype** of *Melobesia cymodocea* Foslie. Additional data — Penrose 1992a: 89, and Woelkerling 1993: 69. Collection includes small box rediscovered during present study. Small box marked 'sp. konc. til fotogr. [= sporangial conceptacles for photography]']; **TRH A15-797.**
- Mueller; [Australia]; Victoria, Port Phillip; [no habitat data]; 1862; [no slides]; ex herb. Are-schoug [**S**]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH A15-798.**
- Mueller; [Australia]; [Victoria], Port Phillip; on *Amphibolis bicornis*; [no date]; [no slides]; ex herb. Naturh. Hofmus, Wien [**W**]; [no pfa]; [Note: box marked '*Melob. lejolisii*' and '= *M. cymodocea?*']; **TRH A15-799.**
- [Anon.]; [Australia]; South Australia, P[ort] Elliot; [on] *Plocamium mertensii*; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*M. cymodocea?*' and 'Not to be returned']; **TRH A15-800.**
- [Anon.]; [Australia]; Victoria; [no habitat data]; [no date]; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists only of slide. Collection not included in Adey & Lebednik 1967]; **TRH A15-801.**

farinosa, Melobesia [originally described as *Melobesia farinosa* (Lamouroux 1816: 315) and retained in that genus by Foslie in publication]. **Holotype:** **CN**, Lamouroux Herbarium, unnumbered (Chamberlain 1983: 340, Penrose & Chamberlain 1993: 296).

- Ardissone; [Italy]; Genoa, San Guiliano; on *Taonia atomaria*; 1861; one unnumbered slide; ex *Erbario Crittogamico Italiano*, specimen number 856; [no pfa]; [Note: collection consists of slide only. Slide marked '*Melobesia (Dermatolithon) pustulatum* = *M. farinosa*' and 'paa [= on] *Taonia atomaria*'. Adey & Lebednik 1967: 34 mistakenly suggest that this is possible type material of *Melobesia granulata* Meneghini]; **TRH A15-802.**
- Blokeslee; Venezuela; Margarita Island; on *Laurencia*; [no date]; slide 1483; comm. Farlow, (1907), number 7; [no pfa]; [Note: annotation slip inside packet includes collector and locality information. Adey & Lebednik 1967: 33 mistakenly list 'Farlow' as the collector]; **TRH A15-879.**
- Børgesen; [France]; Corsica, in sinu Ajaccionis [= in the Gulf of Ajaccio]; [no habitat data]; xi.1897; [no slides]; *Algae marinae Corsicanae*, det Reinbold; [no pfa]; [Note: packet marked 'ikke unders. [= not examined]']; **TRH A15-804.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Little Princess; 'paa [= on] *Udotea flabellata*'; i-iii.1892; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 'usikker [= uncertain]']; **TRH A15-805.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Christiansteds havn [= the harbour of Christiansted]; 'lavt vand [= low water]'; 11.i.1906; [no slides]; Børgesen collection number 1245; [no pfa]; [Note: packet

- marked '*Melobesia farinosa* (heteroc. [= heterocysts (trichocytes)]) & forkr. [= dwarfed] *Lithoph. pustulatum*'; **TRH A15-806.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, utfor [= off of] Christiansfort; collection depth: ca 11 fathoms, 'paa [= on] *Caulerpa crassifolia*'; 10.iii.1906; [no slides]; Børgesen collection number 1922; [no pfa]; [Note: packet marked '(ikke sett heteroc. [= heterocysts (trichocytes) not seen])']; **TRH A15-807.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas havn [= St Thomas' harbour]; [no habitat data]; 21.xii.1905; [no slides]; Børgesen collection number 1078; [no pfa]; [no notes]; **TRH A15-808.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas; 'paa [= on] *Caulerpa prolifera*'; 21.xii.1905; [no slides]; Børgesen collection number 1103; [no pfa]; [Note: packet marked 'spars. heteroc. [= few heterocysts (trichocytes)]']; **TRH A15-809.**
- Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas, østsiden af havnen [= east side of harbour]; [no habitat data]; 5.i.1906; [no slides]; Børgesen collection number 1184; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]']; **TRH A15-810.**
- Caldesi; [Italy]; Ancona; 'in foliis *Zosteræ* [= on *Zostera* leaves]'; [no date]; one slide labelled with exsiccata number 1676; Rabenhorst, *Algen Europas*, 1676, *Melobesia verrucata* Lamour.; [no pfa]; [Note: packet marked '= *L. farinosa* - jfr. præp. med heteroc. og *M. lejolisii* - synes tilst. i samme præp. [= *L. farinosa* - cf. slide with heterocysts (trichocytes) and *M. lejolisii* - seems to be present in same slide]'. Packet also marked 'cfr. notat om Erb. Crittog. Ital. Nr. 127 (1127) ogsaa udtatt af Caldesi og væsentligst tilh. *lejolisii*, delvis dog ogsaa *farinosa*. [= cf. note about Erb. Crittog. Ital. Nr. 127 (1127) also taken out by Caldesi and most belongs to *lejolisii*, partly yet also *farinosa*]'. Two Caldesi slides of *Melobesia lejolisii* occur in A15-894. Adey & Lebednik 1967: 33 list the entry as 'Rabenhorst no. 127, 1127, 1676'; **TRH A15-811.**
- Debray; Alg. [= Algeria]; Baz Aknatar; [no habitat data]; 27.vi.1890; [no slides]; Debray collection number 103; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]'. Locality given as 'Bas Akuakar?' in Adey & Lebednik 1967: 33]; **TRH A15-812.**
- Debray; Alg. [= Algeria]; Cap Matifou; [no habitat data]; 21.iv.1890; [no slides]; Debray collection number 101; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]'. Locality given as 'Mahfon' in Adey & Lebednik 1967: 33]; **TRH A15-814.**
- Debray; [Algeria]; St. Eugène; [no habitat data]; 20.vi.1887; [no slides]; Debray collection number 102; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]']; **TRH A15-815.**
- Debray; [France]; Calvados, Grandcamp; 'sur [= on] *Cystoseira* et sur [= and on] *Zostera*'; 12.ix.1893; [no slides]; Debray [collection number] 105; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]']; **TRH A15-813.**
- Hausknecht; [Turkey]; Sorte hav [= Black Sea], Trapesunt, Pont Eccnin, pres [= near] Trébizonde [now Trabzon]; [no habitat data]; 1869; one unnumbered slide; Hausknecht 'Iter orientale 1869', ex herb. Mus. Paris [PC] vii.1908; [no pfa]; [no notes]; **TRH A15-816.**
- Holmes; [United Kingdom]; England, Weymouth; 'paa [= on] *Laminaria saccharina*'; viii.1895 [but see Note]; slide 320; Alg. Rar. Brit. Exsicc [= *Algae Britannicae Rariores Exsiccatae, curante E.M. Holmes*], ex herb. Batters [now in BM]; [no pfa]; [Note: slide marked 'England, Weymouth viii 1894, E.M. Holmes'. It is uncertain whether the collection date is '1894' or '1895'. Packet marked '*Melobesia myriocarpa* Holmes' and '*M. farinosa* med [= with] heteroc. [= heterocysts (trichocytes)], ngl. faa skorper [= a few crusts] og [= and] *M. lejolisii* f. *limitata*' and 'maaske alt [= possibly all] *farinosa*!'. Adey & Lebednik 1967: 33 mistakenly list the collector as 'Batters']; **TRH A15-803.**
- Hombron; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; one unnumbered slide; ex herb. Mus. Paris [PC] vii.1908; [no pfa]; [Note: packet marked 'Ex-

- pedition de l'Astrolabe et de la Zelée' and '(= Expedition Pole Sud Voyage au Pole Sud) Ms. Tond? Guham? ell. lign. jfr. teksten l.e.[= or similar cf. the text l.e.]'; **TRH A15-817**.
- Howe; Bahamas; Atwood (Sanana) Cay; on *Halimeda scabra*; 3.xii.1907; [no slides]; [Howe collection number] 5254; [no pfa]; [Note: packet marked '*Melobesia farinosa* (?)'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip inside packet. Slip also marked with '*Lithophyllum* (5255)' [see A15-820]. Grouped with A15-818 and A15-820 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-819**.
- Howe; Bahamas; Atwood (Sanana) Cay; on *Halimeda scabra*; 3.xii.1907; [no slides]; [Howe collection number] 5255; [no pfa]; [Note: packet marked '*Lithoph. (Derm.) pustulatum* & *Melob. farinosa* (?)'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on annotation slip in packet. Slip also marked 'with *Lithophyllum* (5254)' [see A15-819]. Grouped with A15-818 and A15-819 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-820**.
- Howe; Bahamas; Berry Islands, Frozen Cay; on *Dictyota*; 30.i.1905; [no slides]; [Howe collection number] 3530; [no pfa]; [Note: label marked 'konc. [= conceptacles]' and 'finder ej heteroc. [= heterocysts (trichocytes) not found]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip affixed to herbarium sheet. Grouped with A15-822 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-821**.
- Howe; Bahamas; Berry Islands, Frozen Cay; on *Polysiphonia*; 30.i.1905; [no slides]; [Howe collection number] 3533; [no pfa]; [Note: label marked 'konc. [= conceptacles]' and 'finder ej heteroc. [= heterocysts (trichocytes) not found]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip affixed to herbarium sheet. Grouped with A15-821 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-822**.
- Howe; Bahamas; Berry Islands, Little Harbour Cay; on *Thalassia*; 31.i.1905; [no slides]; [Howe collection number] 3586; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]', and '*M. farinosa* og smaa skorper af [= and small crusts of] *L. pustulatum*', and 'nærmer sig habituelt [= similar to the habitat of] *M. lejolisii*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in packet]; **TRH A15-823**.
- Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on *Halimeda*, n. l. t. m. [= near low tide mark]; 6.xii.1907; slide 1694; [Howe collection number] 5380; [no pfa]; [Note: packet marked '*Lithoph* sp. (liden skorpe [= small crust]) og [= and] *Melob. farinosa* (?)'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in packet. Grouped with A15-819 and A15-820 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-818**.
- Howe; Caicos Islands; at Malcom road; on *Dictyota*, near low water mark; 19.xii.1907; [no slides]; [Howe collection number] 5676; [no pfa]; [Note: packet marked 'Caicos Islands, B.W.I. [= British West Indies]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in packet. Habitat and other information occur on same slip]; **TRH A15-824**.
- Howe; Jamaica; Montego Bay, on seaward shore of Bogue Islands; on *Thalassia*; 7.i.1907; one unnumbered slide; [Howe collection number] 4834; [no pfa]; [Note: 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in packet]; **TRH A15-825**.
- Howe; Jamaica; Rackam's Cay, near Kingston Harbor; on *Thalassia* in l. m. w. [= low water mark]; 20.xii.1906; [no slides]; [Howe collection number] 4562; [no pfa]; [Note: 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in packet]; **TRH A15-826**.
- Howe; Puerto Rico; Aguadilla; on *Chaetomorpha*; 12.vi.1903; two slides, both labelled with Howe collection number 2383; [no other collection data]; [no pfa]; [Note: packet marked 'heteroc., cell. tildels tem. lange [= heterocysts (trichocytes), cells partly rather long]'.]

- 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in packet]; **TRH A15-827.**
- Howe; Puerto Rico; Lemon Bay, near Guanica; on *Udotea flabellum*; 27.vi.1903; one slide labelled with Howe collection number 2697; [no other collection data]; [no pfa]; [Note: packet marked '*M. farinosa?* delvis [= in part]' and 'Obs. snit – smaa + n. kvadr. celler, smaa konc. = *farinosa*, men mindre. – skorpe med to større konc. maaske *pustulatum* [= observed cut – small + some quadratic cells, small conceptacles = *farinosa*, but smaller. – crust with two larger conceptacles perhaps *pustulatum*']. 'New York Botanical Garden, North American Marine Algae' [NY] printed on slip in packet]; **TRH A15-829.**
- Howe; Puerto Rico; Point Borinquen, near Aquadilla; on *Amansia multifida*, washed ashore; 15.vi.1903; one slide labelled with Howe collection number 2695; [no other collection data]; [no pfa]; [Note: packet marked 'store dækceller [= large cover cells (epithallial cells)]' and 'heteroc. [= heterocysts (trichocytes)]' and 'vistnok ialf. delvis [= probably in part] *farinosa* (og [= and] *M. lejolisii?*)'. Packet also marked 'Cell. tildels kortere end længden, især indre dele skorpen, koncept. ofte kun omgivne smal rand, flerlaget thallus [= cells partly shorter than length, especially in the inner part of the crust, conceptacles often only surrounded small edge, several layers of thallus]' and 'sp. konc. [= sporangial conceptacles]'. 'New York Botanical Garden, North American Marine Algae' [NY] printed on slip in packet]; **TRH A15-828.**
- Howe; Puerto Rico; Santurce, San Juan; on *Padina*; 15.v.1903; [no slides]; New York Botanical Garden [NY], [Howe collection number] 1812; [no pfa]; [Note: packet marked '*L. pustulatum* (steril [= sterile]) og [= and] *Melob. farinosa*' and 'smaa skorper [= small crusts]'. 'New York Botanical Garden, North American Marine Algae' [NY] printed on slip in packet. Grouped with five other collections (A15-831, A15-832, A15-833, A15-834, A15-835) of differing dates under one entry in Adey & Lebednik 1967: 32]; **TRH A15-830.**
- Howe; Puerto Rico; Santurce, San Juan; on *Thalassia*; 16.v.1903; [no slides]; [Howe collection number] 1875; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]'. 'New York Botanical Garden, North American Marine Algae' [NY] printed on slip in packet. Grouped with five other collections (A15-830, A15-832, A15-833, A15-834, A15-835) of differing dates under one entry in Adey & Lebednik 1967: 32]; **TRH A15-831.**
- Howe; Puerto Rico; Santurce, San Juan; 'paa [= on] *Dictyota dentata*'; 19.v.1903; [no slides]; [Howe collection number] 1927; [no pfa]; [Note: packet marked 'New York Bot. Garden' [NY] and '*Melob. farinosa* (& *Derm. pustulatum*) små skorper [= small crusts]'. Grouped with five other collections (A15-830, A15-831, A15-833, A15-834, A15-835) of differing dates under one entry in Adey & Lebednik 1967: 32]; **TRH A15-832.**
- Howe; Puerto Rico; Santurce, San Juan; on *Dilophus*; 20.v.1903; [no slides]; [Howe collection number] 1957; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' [NY] printed on slip inside packet. Packet marked 'spars heteroc. [= sparse heterocysts (trichocytes)]'. Grouped with five other Howe collections (A15-830, A15-831, A15-832, A15-834, A15-835) of differing dates under one entry in Adey & Lebednik 1967: 32]; **TRH A15-833.**
- Howe; Puerto Rico; Santurce, San Juan; on *Thalassia*, in lagoon; 22.v.1903; two slides, both labelled with Howe collection number 2039; [no other collection data]; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' [NY] printed on slip inside packet. Packet marked 'heteroc. [= heterocysts (trichocytes)]' and '*Melob. farinosa* (ialf. delvis, sands. alt [= at least partly, probably all])'. Grouped with five other collections (A15-830, A15-831, A15-832, A15-833, A15-835) of differing dates under one entry in Adey & Lebednik 1967: 32]; **TRH A15-834.**
- Howe; Puerto Rico; Santurce, San Juan; on *Vidalia obtusiloba*, near low water mark; 23.v.1904 [but see Note]; [no slides]; [Howe collection number] 2101; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' [NY] printed on slip inside packet. Packet marked 'heteroc. [= heterocysts (trichocytes) men spars. konc. uden krone [= but sparse conceptacles without crown (corona)]'. Annotation slip in packet from Howe is dated '23.v.1903' while packet is dated '23.v.1904'. Grouped with five other col-

- lections (A15-830, A15-831, A15-832, A15-833, A15-834) of differing dates under one entry in Adey & Lebednik 1967: 32]; **TRH A15-835.**
- Howe; [United States]; Florida, Biscayne Key, Cape Florida; on *Thalassia*; 29.iii.1904; [no slides]; [Howe collection number] 2867; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' **[NY]** printed on slip inside packet. Packet marked '*M. farinosa* og [= and] *L. pustulatum*' and 'spars. heteroc. [= sparse heterocysts (trichocytes)]']; **TRH A15-836.**
- Howe; [United States]; Florida, Caesars Creek, south of Elliots Key; on *Thalassia* in 2 metres of water, low tide; 31.iii.1904; [no slides]; [Howe collection number] 2955; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' **[NY]** printed on slip inside packet. Packet marked '*M. farinosa* (heteroc.) og smaa skorper [= and small crusts of] *Lithophyllum pustulatum*'. Packet also marked 'heteroc. [= heterocysts (trichocytes)]'. Grouped with A15-838 and A15-839 under one entry in Adey & Lebednik 1967: 32, who give the locality as 'E. of Elliots Key']; **TRH A15-837.**
- Howe; [United States]; Florida, Caesars Creek, south of Elliots Key; on *Penicillus dumetosus*; 31.iii.1904; [no slides]; [Howe collection number] 2958; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' **[NY]** printed on slip inside packet. Packet marked 'et par smaa & forkrøblede skorper vistnok [= a couple of small and dwarfed crusts most likely of] = *Lithophyllum pustulatum*' and 'finder ej heteroc. [= heterocysts (trichocytes) not found]'. Annotation also indicates that male conceptacles occur. Grouped with A15-837 and A15-839 under one entry in Adey & Lebednik 1967: 32, who give the locality as 'E. of Elliots Key']; **TRH A15-838.**
- Howe; [United States]; Florida, Caesars Creek, south of Elliots Key; on *Udotea conglutinata*; 31.iii.1904; [no slides]; [Howe collection number] 2971; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' **[NY]** printed on slip inside packet. Packet annotation states that *Lithophyllum pustulatum* also is sparsely present and that conceptacles occur in both species. Grouped with A15-837 and A15-838 under one entry in Adey & Lebednik 1967: 32, who give the locality as 'E. of Elliots Key']; **TRH A15-839.**
- Jadin; Réunion; [no other locality data]; [no habitat data]; iv.1890; [no slides]; Jadin number 128; [no pfa]; [Note: collector listed as Jodin in Adey & Lebednik 1967: 33]; **TRH A15-840.**
- Kotschy; Sinus Persicus [= Persian Gulf], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'leg. comm. Kotschy' and 'collectio C.M. Diesing 1843'. Entry in Adey & Lebednik 1967: 33 reads 'Diesing, Sinus Persiens 1843']; **TRH A15-841.**
- Le Jolis; [France]; Cherbourg; on *Cystoseira*; 15.xi.1858; [no slides]; [no other collection data]; [no pfa]; [Note: label reads 'Herb. A. Le Jolis' **[CHE]** and '*Melobesia membranacea*' without mention of the epithet *farinosa* on or in packet. Grouped with A15-842 and A15-843) under one entry in Adey & Lebednik 1967: 33]; **TRH A15-844.**
- Le Jolis; [France]; Cherbourg; 'sur [= on] *Cystoseira discors*'; ix. [no year]; three slides, all labelled with the exsiccata collection number 194; *Algues marines de Cherbourg*, specimen 194; [no pfa]; [Note: slide marked '*M. membranacea* = *M. farinosa*'. Packet with printed label marked '194. *Melobesia membranacea* Lamx.'. Grouped with A15-843 and A15-844) under one entry in Adey & Lebednik 1967: 33]; **TRH A15-842.**
- Le Jolis; [France]; Cherbourg; 'sur [= on] *Cystoseira discors*'; ix. [no year]; one slide [apparently missing, but see A15-842]; *Algues marines de Cherbourg*, [specimen] 194; [no pfa]; [Note: sheet marked '*Melobesia membranacea* Lamx = *M. farinosa*', and 'sp. konc. til fotogr. [= sporangial conceptacles for photography]' and 'heteroc. [= heterocysts (trichocytes)]'. Includes additional small box with conceptacle fragments rediscovered during the present study. Grouped with A15-842 and A15-844 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-843.**
- Orbigny; Cuba; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Mus. Paris **[PC]**; [no pfa]; [Note: packet marked 'ni *Zonaria* alc. D'Orbigny' and '*M. farinosa* f.

typica' with '*M. farinosa* f. *solmsiana*' and '(og [= and] *Lithoph. pustul.* (Lamour.) Fosl.>'); **TRH A15-871.**

Pease & Butler; Vestindien [= West Indies], Jamaica; [no other locality data]; [no habitat data]; [no date]; two unnumbered slides but with the letter 'C'; comm. F.S. Collins 1900, packet C; [no pfa]; [Note: packet marked '*L. pustulatum* & *M. farinosa*' and 'ung sp. konc. [= young sporangial conceptacles]' and 'cyst. & anth. konc. [= cystocarpic and antheridial conceptacles]' and 'synes være sikre, dog smaa heteroc. [= seems to be reliable, despite small heterocysts (trichocytes)]'. Jamaica is part of the Greater Antilles, one of the three island groups comprising the West Indies, along with the Lesser Antilles and the Bahamas]; **TRH A15-845.**

Pease & Butler; Jamaica; [no other locality data]; on stipes of *Acetabularia crenulata*; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia farinosa* f.' and 'konc. [= conceptacles]' and 'heteroc. [= heterocysts (trichocytes)]'. Collection not included in Adey & Lebednik 1967]; **TRH A15-846.**

Reichenbach; [Italy]; [Sardinia], Alghero; 'parasite sur la [= parasite on] *Flabellaria desfontaina*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Reichenbach fil. [= H.G. Reichenbach]' and 'XXXIII *Melobesia farinosa* (M grahe lata Menegh)' and 'næsten [= almost] f. *solmsiana*' and 'Fra exsiccatverk? [= from exsiccata work?']'. Annotation slip in box marked '*M. fruticosa* f. *solmsiana*'; **TRH A15-847.**

Reinbold [?]; [Tanzania]; Ost-Afrika [= east Africa] Dar-es-Salaam; 'paa [= on] *Gracilaria corticata*'; [no date]; one unnumbered slide; comm. Reinbold 1903; [no pfa]; [Note: packet marked '*M. farinosa*? f. –' and 'mindre cell. und sedv. hos typ. form [= smaller cells than usually in typical form]'. Collection includes short letter from Reinbold, but it is not clear whether he collected the material or just sent it to Foslie. Locality on collection given as 'E. Africa, Dar-es-Salaam']; **TRH A15-848.**

Sauvageau; Canary Islands; Puerto Orotava; 'sur [= on] *Valonia*'; 17.xii.1904; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists only of slide. Slide marked '*Melobesia farinosa* f. *typica* & *calith.*' and '*Dermocarpa*'; **TRH A15-850.**

Sauvageau; Canary Islands; Tenerife, Puerto Orotava; on *Cystoseira barbata*; 4.i.1905; [no slides]; Algues marines des Canaries; [no pfa]; [no notes]; **TRH A15-849.**

Sauvageau; France; Arcachon, (Gironde); on *Zostera*; ix.1902; one unnumbered slide; [no other collection data]; [no pfa]; [Note: annotation slip contains cell, conceptacle, and trichocyte measurements. Collection includes one small box rediscovered during the present study and marked 'Til fotogr [= for photography]' and 'cyst. & anth. konc. [= cystocarpic and antheridial conceptacles]']; **TRH A15-851.**

Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Melob. farinosa* & *Lithoph. (Derm.) macrocarpum* f. *intermedia*'; **TRH A15-852.**

Sauvageau; [Spain]; Cape Crew, Port Lligat; on *Udotea*, 'draguée à faille profondeur [= dredged at a shallow depth]'; 4.i.1907; [no slides]; comm. Sauvageau; [no pfa]; [Note: packet marked '*Melobesia farinosa* (med sp.) og unge skorper af *Lithoph. macrocarpum* ell. *pustulatum*. [= *Melobesia farinosa* (with sporangia) and young crust of *Lithoph. macrocarpum* or *pustulatum*']. Entry in Adey & Lebednik 1967: 33 reads 'Sauvageau, France, Banyuls, s/M, 4.i.1907'; **TRH A15-853.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], Koh Kahdat; collection depth: ca 2 fathoms, on *Halimeda macroloba*; 18.ii.1900; two unnumbered slides; Danish Siam Expedition 1899-1900, number XIII; [no pfa]; [Note: packet marked with measurements for cystocarpic and antheridial conceptacles, vegetative cells, and heterocysts (trichocytes). Grouped with A15-855 and A15-856 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-854.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], Koh Kahdat; collection depth: ca 2 fathoms, 'paa [= on] *Cystoseira latifrons*'; 18.ii.1900; one unnumbered slide; Danish Siam Expedition 1899-1900, number XIV; [no pfa]; [Note: grouped with A15-854 and A15-856 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-855.**

- Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], Koh Kahdat; collection depth: ca 2 fathoms, 'paa [= on] *Padina*'; 18.ii.1900; [no slides]; Danish Siam Expedition 1899-1900, number XV; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]' and 'sp. 4-delte [= sporangia 4-parted]'. Packet also marked with measurements for antheridial conceptacles. Grouped with A15-854 and A15-855 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-856.**
- Schimper; Red Sea [country uncertain]; [no other locality data]; 'auf [= on] *Sargassum latif.*'; [no date]; [no slides]; leg. comm. Schimper; [no pfa]; [Note: box marked 'coll. alg. C. M. Diesing 1842'. Adey & Lebednik 1967: 34 listed 'Diesing, 1842' as the collector]; **TRH A15-858.**
- Schimper; [Tanzania]; Afrikas östkyst [= east coast of Africa] Dar-es-Salaam; 'paa [= on] *Posidonia?*'; 22.iii.1899; one unnumbered slide; Exp. *Valdivia* [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: collection consists only of slide]; **TRH A15-857.**
- Setchell & Osterhout; [United States]; Massachusetts, Woods Holl [now Woods Hole]; on *Fucus vesiculosus*, just below low water mark; 13.viii.1895; [no slides]; *Phycoth. Bor. Amer.* No. 200; [no pfa]; [Note: packet marked 'Udt. af exicc. noget igjen [= taken from exiccati, some left]' and 'heteroc. [= heterocysts (trichocytes)]' and 'smaa koncept. [= small conceptacles]']; **TRH A15-859.**
- Tecket; [Egypt]; Alexandria; littoral [region], 'stk. af [= piece of] *Caulerpa prolifera*'; 19.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 'heteroc. [= heterocysts (trichocytes)]' and '(N. Wille sendt til bestemmelse [= sent for determination] 9.05)']; **TRH A15-860.**
- Weber-van Bosse; Netherlandsk Indies [= Nederlands Indies, now Indonesia]; Flores Island, Maumeri; [no habitat data]; xii.1888 [?]; one unnumbered slide; Siboga Expedition collection 1301; [no pfa]; [Note: collection consists only of slide. Date on slide is incorrect because Siboga Expedition occurred in 1899-1900. Adey & Lebednik 1967: 34 list locality as Maume]; **TRH A15-862.**
- Weber-van Bosse; [Indonesia]; Pare Pare; [no habitat data]; [no date]; [no slides]; Siboga Expedition, station 892, no.1315; [no pfa]; [Note: packet marked '832 Stat 892' and '(S.E.) 1315' but according to Weber (1902), only 323 stations were visited during the expedition. Foslie (1904b: 56) cites a Siboga Expedition collection from Pare Pare without a station or specimen number. Packet also marked 'anth. konc. [= antheridial conceptacles]' and 'cyst. konc. [= cystocarpic conceptacles]']; **TRH A15-861.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved stationen [= by the station]; 'sublittoral, paa chitinrør af hydroides [= sublittoral on chitin tubes of hydroids]'; 9.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*M. farinosa* fere [= nearly] f. *callithamnioides*' and 'blandt [= among] *Corallina rubens* etc. *Cladophora prolifera*' and '(s. med liden *L. pustul.* som udtaget) og paa lidet *serpula* rør! [= (mixed with small *L. pustul.* which is taken out) and on small *serpula* pipe]' and 'heteroc. [= heterocysts (trichocytes)]'. Packet also marked 'præp. [= slide]' but no slide is present. Grouped with a collection of '*M. farinosa* f. *callithamnioides*' (A15-888) under one entry in Adey & Lebednik 1967: 33, who list the collection date as '9.iii.1900']; **TRH A15-863.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], udenfor stationen [= outside the station]; 'sublittoral, paa [= on] *Zostera*'; 10.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '(maaske ogsaa *Lejolisii* iblandt [= perhaps also *Lejolisii* intermixed)]'. Grouped with A15-865, A15-866 and A15-867 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-864.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved stationen [= by the station]; 'sublittoral, paa [= on] *Vidalia volubilis*'; 12.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 'konc. [= conceptacles]' and 'heteroc. [= heterocysts (trichocytes)]'. Grouped with A15-864, A15-866 and A15-867 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-865.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved jernbanestationen [= by the railway station]; 'littoral-sublittoral paa [= on] *Halimeda tuna*'; 13.iii.1903; one un-

- numbered slide; [no other collection data]; [no pfa]; [Note: slide and packet marked '*M. farinosa* f. *typica* og overg. [= and grading into] [f.] *callithamn.*?'. Packet also marked 's. med [= mixed with] *L. pustul.* paa andre ekspl. [= on other specimens]'. Grouped with A15-864, A15-865 and A15-867) under one entry in Adey & Lebednik 1967: 33]; **TRH A15-866.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], St. Catharina; 'paa [= on] *Anadyomene stellata*'; 25.iii.1903; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet and slide marked '*M. farinosa* f. *typica* med overgang til [= and grading into] *callith.*?'. Grouped with A15-864, A15-865 and A15-866 under one entry in Adey & Lebednik 1967: 33]; **TRH A15-867.**
- Yendo; Japan; Prov. of Shima or Prov. of Mikaiva; [no habitat data]; 14.x.1898; [no slides]; [no other collection data]; [no pfa]; [Note: annotation concerning 'dækcell. [= cover cells (epithallial cells)]' and 'heterocysts' (trichocytes) on packet difficult to read]; **TRH A15-868.**
- [Anon.]; Australia; [Victoria], Port Phillip; [no habitat data]; [no date]; [no slides]; Herb. naturhist. Hofmus. Wien [**W**]; [no pfa]; [Note: annotation slip in box marked 'nærmer sig [= grading into] f. *solmsiana*'. Collection not included in Adey & Lebednik 1967]; **TRH A15-870.**
- [Anon.]; [Japan]; Tokyo; [no habitat data]; 25.ix.1900; [no slides]; [no other collection data]; [no pfa]; [Note: specimen housed in a glass tube. Annotation note from Foslie marked 'synes være deler av [= seems to be parts of] *M. farinosa* (og [= and] *Zostera*?)'; **TRH A15-944.**
- [Anon.]; Martinique; [no other locality data]; [no habitat data]; [no date]; one unnumbered slide; [ex] Herb Lebel, ex Herb. Mus. Paris [**PC**], [comm.] vii.1908; [no pfa]; [Note: packet marked 'fere [= nearly] f. *mauritiana*' and 'nær Porto Rico-formen [= close to the Porto Rico form]'. Annotation slip inside packet marked 'ligner [= similar to] 4266 Porto Rico' [see A15-891]. Adey & Lebednik 1967: 34 mistakenly list 'Lebel' as the collector and '1908' as the collection date. The specimen was probably sent from **PC** by Hariot in July 1908]; **TRH A15-873.**
- [Anon.]; Martinicia [= Martinique]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex Herb. Mus. Paris [**PC**], [comm.] viii.1908, number 5; [no pfa]; [no notes]; **TRH A15-872.**
- [Anon.]; [Italy]; Middelhavet [= the Mediterranean], Capocesto; 'paa [= on] *Udotea*'; [no date]; one unnumbered slide; comm. G.B. DeToni (iv.1905); [no pfa]; [Note: collection consists only of slide. Slide marked '*Melobesia granulata* = *M. farinosa*' and 'nr. 628 Herb.' and 'Type ekspl.? [= type specimen?]. It is uncertain whether the material is isotype or paratype material. The holotype is in **L** (Woelkerling & Verheij 1995: 56). Adey & Lebednik: 1967: 34 list De Toni as the collector]; **TRH A15-874.**
- [Anon.]; Nouvelle Calédonia [= New Caledonia]; Balade; [no habitat data]; 1855-1860; one unnumbered slide; Visillard, Herb. De la Nouvelle Calédonie, number 1951, ex herb. Mus. Paris [**PC**], vii.1908; [no pfa]; [Note: packet marked '*Melobesia* [*Dermatolithon*] *pustulata* Balade 1855-60 = *M. farinosa*']; **TRH A15-875.**
- [Anon.]; Pitcairn Island; [no other locality data]; [no habitat data]; [no date]; [no slides]; Mus. Paris [**PC**], [comm.] P. Hariot, iv.1907, number 15; [no pfa]; [Note: locality on packet given as 'Ile Pitcairn (Tahiti)'. Adey & Lebednik 1967: 33 mistakenly list 'Hariot' as the collector and '1907' as the collection date]; **TRH A15-878.**
- [Anon.]; [Egypt]; Red Sea, [Gulf of Suez], El Tor; on *Stoechospermum patens* = *S. marginatum*; iii.1907; [no slides]; [ex] herb. N. Wille [**O**, and other locations, according to Stafleu & Cowan 1988: 306]; [no pfa]; [Note: packet marked 'dækc. & heteroc. [= cover cells (epithallial cells) & heterocysts (trichocytes)]' and 'konc. [= conceptacles]' and '*Melob. farinosa* og [= and] *Lithoph. pustulatum*'. Annotation slip inside packet marked 'det Martens? Zan. Herb N. Wille']; **TRH A15-876.**
- [Anon.]; [Red Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Reinbold, iv.1908; [no pfa]; [Note: packet marked 'not to be returned'

and '*Melobesia farinosa* og [= and] *Derm. pustul.* (steril [= sterile]), jfr. andet ekspl. [= cf. another specimen]'. Annotation slip inside packet marked '*L. pustulatum*' and '*M. farinosa*'; **TRH A15-882**.

[Anon.]; [Sweden]; Bohuslen, Warholm; 'paa [= on] *Zostera*'; ix; one unnumbered slide; [ex] herb. Aresch. [S]; [no pfa]; [Note: collection consists only of slide. Slide also marked '*M. lejolisii* paa [= on] *Zostera*' and 'cfr. obs. [= cf. observed] *Phyc.*']; **TRH A15-877**.

[Anon.]; Vestindien [= West Indies]; St. Thomas; on *Valonia macrophysa*; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: specimen missing from collection. Collection not included in Adey & Lebednik 1967. St Thomas is now part of the U.S. Virgin Islands, one of the island groups in the Lesser Antilles. The Lesser Antilles forms part of the West Indies along with the Greater Antilles and the Bahamas]; **TRH A15-880**.

[Anon.]; [geographic region uncertain]; [no locality data]; 'paa [= on] *Phyllophora rubens*'; [no date]; [no slides]; ex herb. Crouan [dispersed amongst several institutions, according to Staffleu & Mennega 1997: 480]; [no pfa]; [Note: packet marked '*Melobesia verrucata* Crn Fl. Finist. p. 150, Lam. Pol. Flex., J. Ag.'. Packet also marked 'og [= and] *M. lejolisii*' and 'sp. 4 delte [= sporangia 4-parted]'. Specimens most likely collected by the Crouan brothers in Finistère, France]; **TRH A15-881**.

***farinosa*, *Melobesia* (f. *borealis*)** [originally described as *Melobesia farinosa* f. *borealis* (Foslie 1905c: 96) and retained by Foslie in that genus and species without further mention in publication. Collections listed in Adey & Lebednik 1967: 32-34 under *Melobesia farinosa* without mention of forma]. **Lectotype:** TRH, A15-884 (see below).

Bovallius & Kjellman; Sweden; Södra Koster, Brattskär; 'paa *Lamin.* blad [= on *Laminaria* blade]; 25.v.1870; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists of three specimens attached to one sheet and one unnumbered slide. Slide marked '*M. farinosa* f. *borealis*?, *M. lejol.*? paa *Lamin.* blad af beholdte ekspl. [= *M. farinosa* f. *borealis*?, *M. lejol.*? on *Lamin.* blade of retained specimens]'. Annotation slip inside packet marked '*Fosliella limitata*, Södra Koster – Brattskär 25 v. 1870. Determinavit: Y. Chamberlain, Date: 3 ii. 1978'. A second slide from Snedholmen, originally part of this collection, has been removed and listed separately just below (A15-3814). Only Kjellman listed as collector in Adey & Lebednik 1967: 33]; **TRH A15-883**.

Bovallius & Kjellman; Sweden; Södra Koster, Snedholmen; 'paa *Lamin.* blad [= on *Laminaria* blade]; 25.v.1870; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists only of one slide, originally placed in same packet with material and slide for A15-883. Slide marked '*M. farinosa* f. *borealis*, *M. lejol.*? paa [= on] *Lamin.* blad [= blade], af returnerede ekspl. [= of returned specimen]'. Collection not included as a separate entry in Adey & Lebednik 1967 because slide originally formed part of A15-883]; **TRH A15-3814**.

Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Gigartina* 'a' '; 18.iv.1899; six unnumbered slides; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Melobesia farinosa* f. *borealis* Foslie. Additional data — Woelkerling 1993: 40, and Chamberlain 1994b: 116. Annotation slip from Y.M. Chamberlain in packet marked 'Lectotypus, *Melobesia farinosa* f. *borealis*' and 'Irland, Roundstone, 18.4.1899' and 'paa [= on] *Gigartina* a' and 'M. Foslie' and 'Chosen as lectotype of f. *borealis* and transferred to *Hydrolython boreale* Chamberlain in Irvine and Chamberlain "Seaweeds of the British isles, Vst. I part 2B", 1994: 116. Date 30.4.1993'. Collection includes small box with conceptacle bearing fragments rediscovered during the present study. Small box marked 'til fotogr. [= for photography]']; **TRH A15-884**.

Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Gigartina* 'b' '; 18.iv.1899; three unnumbered slides; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia farinosa* on *Gigartina* b.' and '(*M. lejol.* f. *limit.*?)'. Not included as a separate entry in Adey & Lebednik 1967: 33]; **TRH A15-3815**.

Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Lamin. sacchar.*'; 18.iv.1899; five unnumbered slides; [no other collection data]; [no pfa]; [Note: packet marked '*M. farinosa* f. *borealis* (s. med [= mixed with] *L. pustul.* f. *macroc.* som udtaget [= which is taken out])' and '(ogsaa *M. lejolisii* f. *limitata* iblandt? [= also *M. lejolisii* f. *limitata* intermixed?)]'. Not included as a separate entry in Adey & Lebednik 1967: 33; **TRH A15-3816**.

Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Cystoseira*'; 18.-20.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Melob. farinosa* f. *borealis*? (ell. [= or] *M. lejolisii*)' and 's. med [= mixed with] *Dermatolithon macrocarpum*'. Collection not included in Adey & Lebednik 1967]; **TRH A15-885**.

Rosenvinge; Denmark; Mors, Nykøbing, østsid. af odden [= east side of point]; 'paa [= on] *Fucus vesiculosus*'; 13.vii.1899; one slide labelled with Rosenvinge collection number 4692; Rosenvinge collection number 4692; [no pfa]; [Note: packet marked 'og [= and] *Lithoph. (Derm.) pustulatum*' and 'sp. 4 delte [= sporangia 4-parted]'. Annotation slip inside packet marked '*Fosliella limitata*, (Foslie) Ganesan, see comment by Rosenvinge 1917 p. 248. Determinavit: Y.M. Chamberlain, Date: 3 ii. 1978']; **TRH A15-886**.

farinosa, Melobesia (f. callithamnioides) [originally described as *Melobesia farinosa* f. *callithamnioides* (Foslie 1905c: 96) and retained by Foslie in that genus and species. Although Foslie (1905c: 69) equated his taxon with material identified as *Melobesia callithamnioides* 'Crouan' by Falkenberg (1879) and by several subsequent authors, Foslie explicitly excluded *Hapalidium callithamnioides* P.L. & H.M. Crouan (1860: 287) from his taxon. Thus *M. farinosa* f. *callithamnioides* must be treated as a new taxon described by Foslie. Collections listed in Adey & Lebednik 1967: 32-34 under *Melobesia farinosa* without mention of forma]. **Type:** not designated (see Chamberlain 1983: 351-352). **TRH** has two syntypes (A15-887, A15-888).

Howe; Bahamas; Rose Island, near New Providence; on *Gymnosorus variegatus*; 28.i.1905; one slide labelled with Howe collection number 3430; [no other collection data]; [no pfa]; [Note: **Syntype** of *Melobesia farinosa* f. *callithamnioides* Foslie. Additional data — Foslie 1905c:102. Not mentioned in Woelkerling (1993). 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip inside packet. Collection includes fragments in a small box marked 'til fotogr. [= for photography]']; **TRH A15-887**.

Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved stationen [= by the station]; 'sublittoral paa [= on] *Peyssonnelia*, paa [= on] *Holothurier* [?]; 9.iii.1903; two unnumbered slides; [no other collection data]; [no pfa]; [Note: **Syntype** of *Melobesia farinosa* f. *callithamnioides* Foslie. Additional data — Foslie 1905c:102. Not mentioned in Woelkerling (1993). Packet marked 'præp. (lidt af vært ekspl.) [= slide (some from each specimen)]' and 'heteroc. [= heterocysts (trichocytes)]'. Grouped with a collection of '*M. farinosa*' (A15-863) under one entry in Adey & Lebednik 1967: 33, who list the collection date as '9.iii.1900']; **TRH A15-888**.

Wright; Jamaica; Port Antonio; on *Zonaria variegata*; 1905-1906; one unnumbered slide; comm. Farlow (1907) number 6; [no pfa]; [Note: 'Cryptogams of Jamaica 1905-06 collected by A.E. Wright' printed on slip affixed to packet]; **TRH A15-889**.

farinosa, Melobesia (f. mauritiana) [originally described as *Melobesia farinosa* f. *mauritiana* (Foslie 1905d: 4) and retained by Foslie in that genus and species without further mention in publication. Collections listed in Adey & Lebednik 1967: 32-34 under *Melobesia farinosa* without mention of forma]. **Holotype:** **TRH**, A15-890 (see below).

Jadin; Ile Maurice [= Mauritius]; [no other locality data]; on G--- [name of host cannot be interpreted, but given as 'eelgrass' in protologue (Foslie 1905d: 5)]; vi.1890; slide 496; [Jadin collection number] 496; [no pfa]; [Note: **Holotype** of *Melobesia farinosa* f. *mauritiana* Foslie. Additional data — Woelkerling 1993: 146. Collection includes one slide,

one small box and a packet placed in a larger box. Small box marked 'til fotogr. konc. [= conceptacles for photography]'. Packet marked 'form med tætst. konc. [= form with conceptacles close together]'. Adey & Lebednik 1867: 33 list collector as Jodin]; **TRH A15-890.**

Howe; Puerto Rico; Culebra Island; on *Turbinaria turbinata*, at low water mark; 24.iii.1906; slide 1078 and one slide labelled with Howe collection number 4266; [no other collection data]; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' **[NY]** printed on slip inside packet. Packet marked 'fere [= nearly] f. *mauritiana* Fosl.']; **TRH A15-891.**

[Anon.]; Comoros Islands; Anjouan; [no habitat data]; [no date]; [no slides]; [ex] Mus. Paris **[PC]**, viii.1908, number 4; [no pfa]; [Note: packet marked 'fere [= nearly] f. *mauritiana*'. Annotation slip in packet marked '(Johanna)' in Foslie's handwriting]; **TRH A15-892.**

gibbsii*, *Melobesia [originally described as *Melobesia gibbsii* (Foslie 1907b: 26), but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Name on box not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** **TRH**, A15-893 (see below).

Bryant; [Mexico]; Gulf of California; [no habitat data]; [no date]; two unnumbered slides; comm. Setchell; [no pfa]; [Note: **Holotype** of *Melobesia gibbsii* Foslie. Additional data — Woelkerling 1993: 106. Box marked '*Melobesia tenuis* Setchell et Gibbs mscr.'. Annotation slip in box marked 'coll. W.E. Bryant #20 + 21, R.E.G. [= R.E. Gibbs]', but specimens are not numbered. Foslie (1907b: 26) mistakenly lists collector as 'W.C. Bryant'. Collection includes small box marked 'konc. til fotogr. [= conceptacles for photography]' rediscovered during the present study]; **TRH A15-893.**

lejolisii*, *Melobesia [originally described as *Melobesia lejolisii* (Rosanoff 1866a: 62). Subsequently (Foslie 1898b: 11) transferred without change in rank into *Dermatolithon*, then (Foslie 1900i: 21) returned to *Melobesia*, and then (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** **CHE**, Areschoug no. 2 (Chamberlain 1983: 305, 360).

Beieska; [Denmark]; Aarø sund; [no habitat data]; viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia farinosa* = *M. lejolisii*']; **TRH A15-958.**

Beieska; [Germany]; Fehmamsund; [no habitat data]; 23.ix.1887; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia farinosa* = *M. lejolisii*']; **TRH A15-957.**

Caldesi; [Italy]; Ancona, Lazzaretto; 'paa [= on] *Zostera*'; ix.1863; two unnumbered slides; Erbar. Crittogam. Ital [= the exsiccata *Erbario Crittogamico Italiano*] [specimen] 127 (1127); [no pfa]; [Note: collection consists only of two slides. Slides marked '*Melob. verrucata* = *M. lejolisii*? og [= and] *M. farinosa*?'. Also see entry for a Caldesi collection under *Melobesia farinosa* (A15-811). Adey & Lebednik 1967: 35 list this entry as 'Caldesi, Lazzarettodi Arcona, Sept. 1863 (slide only)']; **TRH A15-894.**

Collins, F.S.; [United States]; Massachusetts, Cohasset; on *Phyllophora brodiaei*; 26.xi.1884; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet has printed label marked 'Algæ Boreali-Americanæ' with the name '*Melobesia farinosa*' hand-written below. Packet also marked 'nærmer sig [= grading into] f. *limitata*' and 'cell. korte (gjg.), delvis percell. skorper som sedv. konc. lave ca. 200-225µ [= cells mainly short], in part crusts mostly with low conceptacles ca 200-225µ. The name '*M. lejolisii*' appears at the top of the packet]; **TRH A15-897.**

Collins, F.S.; [United States]; Massachusetts, near Marblehead; on *Zost.*; 19.viii.1893; [no slides]; *Phyc. Bor. Amer.* [Phycotheca Boreali Americana] number 149; [no pfa]; [Note:

- packet marked 'Udt. af exsicc. noget igjen [= taken out of exsicc. some left]'; **TRH A15-898.**
- Collins, F.S.; [United States]; Massachusetts, Nahant; 'paa [= on] *Ch. crisp.* [= *Chondrus crispus*]; 30.v.1900; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked '*M. farinosa*' and '*M. lejolisii*' with neither name crossed out. Packet also marked '*M. farinosa* f. *borealis*' and '*M. pustul.* = *macroc.*' and 'Nahant arktisk flora [= Nahant arctic flora]'. Slide marked 'paa [= on] *Chondrus* s. med [= mixed with] *L. pustul.*']; **TRH A15-895.**
- Collins, F.S.; [United States]; Massachusetts, Nahant; 'ad [= on] *Zostera m.*'; [no date]; three unnumbered slides; [no other collection data]; [no pfa]; [Note: packet has printed label marked 'Algæ Boreali-Americanæ']; **TRH A15-896.**
- Collins, F.S.; United States; Rhode Island, Newport; 'paa [= on] *Chondrus*'; v.1900; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked 's. med [= mixed with] *L. pustul.* f. *macroc.*, som udtaget [= which is taken out]' and '*M. farinosa* f. *borealis* (?) *M. lejolisii* f., muligens *L. membr.* iblandt [= probably *L. membr.* intermixed]' and 'sp. vægge oftest skraat stillede [= sporangial wall often angular]']; **TRH A15-899.**
- [Debray]; [Algeria]; [Algier [= Algiers]; [no habitat data]; i.1873; [no slides]; collection number 104; [no pfa]; [Note: information on packet in Debray's handwriting (e.g. compare with A17-1129)]; **TRH A15-956.**
- Debray; Alg. [= Algeria]; St. Eugène; 'paa [= on] *Corallina rubens*'; vi.1887; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked '*M. lejolisii* f. Cfr. [= cf.] Remarks [= Foslie 1905c]'. Packet inside main packet marked 'Mar d' Eugèn, vi.1887, no. 107, *Melobesia membranaceum?*' and '*M. farinosa*'. Slide marked '*M. membr.?* = *M. lejolisii* f.' and 'paa [= on] *Corallina rubens*, St. Eugène, vi.1887.']; **TRH A15-900.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], havneindl. tvers af fyrlygten nærmest [= harbour entrance across from the beacon light nearest to] Staværsholmen [now Staværnsøya]; collection depth: 7-10 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH A15-901.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality]; collection depth: ca 5 fathoms, 'paa [= on] *Chondrus* & *Phyllophora*'; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*M. farinosa* f. *borealis*? (ell. – og [or – and] *M. lejolisii*?)' and 'små dækcell. [= small cover cells (epithallial cells)]'. Collection not included in Adey & Lebednik 1967]; **TRH A15-902.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms, 'paa [= on] *Laminaria digitata*'; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*M. lejolisii*? (vel ej [= hardly] *L. membr.*)'. Grouped with A15-904 and A15-905 under one entry in Adey & Lebednik 1967: 34]; **TRH A15-903.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms, 'paa [= on] *Phyllophora* & *Chondrus*'; 12.vii.1905; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked '*M. farinosa* f. *borealis*? (ell. [= or] *M. lejolisii*?) (og [= and] *L. membranaceum*)'. Grouped with A15-903 and A15-905 under one entry in Adey & Lebednik 1967: 34]; **TRH A15-904.**
- Foslie; [Norway]; Hvaløerne [now Hvaler], Galtene [now Galtane] ved [= near] Kirkøen [now Kjerkøy]; collection depth: 3-5 fathoms, 'paa [= on] *Phyllophora* & *Rh. palm*'; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. membr.* og [= and] *M. farinosa* f. *borealis*? (ell. [= or] *M. lejolisii*?)'. Packet also marked 'præp. [= slide]' but no slides were found. Grouped with A15-903 and A15-904 under one entry in Adey & Lebednik 1967: 34]; **TRH A15-905.**
- Foslie; [Norway]; Hvaløerne [now Hvaler], Skjærhalden [now Skjærhollen], udenfor [= outside] Storsanden [now Storesand]; collection depth: ca 5 fathoms, 'paa [= on] *Lith. membr.* & *Phyll. rubens*'; 21.vii.1903; [one unnumbered slide]; [no other collection data]; [no pfa]; [Note: packet marked '*Melob. farinosa* f. *borealis*? ell. [= or] *lejolisii*?'. Grouped with A15-907 under one entry in Adey & Lebednik 1967: 34]; **TRH A15-906.**

- Foslie; [Norway]; Hvaløerne [now Hvaler], Skjærhalden [now Skjærhollen], udenfor [= outside] Storsanden [now Storesand]; collection depth: ca 5 fathoms, 'paa [= on] *Lith. membr.* & *Chondrus crispus*'; 21.vii.1903; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked '*Melob. farinosa* f. *borealis*? ell. [= or] *lejol.*?'. Grouped with A15-906 under one entry in Adey & Lebednik 1967: 34]; **TRH A15-907.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Zostera*'; 17.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 's. med. [= mixed with] *Corall.* Lok. 8 [= locality 8]' and '.... Eksp. til tegn. af cell. overfl. [= specimen for drawing of cell surface]' [first word unreadable]. Grouped with A15-869 under one entry in Adey & Lebednik 1867: 35]; **TRH A15-908.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, towards Inishlaken; 'paa [= on] *Zostera*', in the tidal zone; 25.iv.1899; one unnumbered slide; [no other collection data]; [no pfa]; [Note: grouped with A15-908 under one entry in Adey & Lebednik 1867: 35]; **TRH A15-869.**
- Gran; [Norway]; Espevær; [no habitat data]; 9.vii.1891; two unnumbered slides; [no other collection data]; [no pfa]; [Note: collection consists of two slides, one labelled '*Melob. lejolisii*' and the other '*Melob. lejolisii* sp.'. Slides found in Drawer A28 during present study. Slides possibly linked to a loose specimen in A15 lacking collecting information. Collection not included in Adey & Lebednik 1967]; **TRH A15-3820.**
- Hansteen; [Norway]; Klostervigen, Halsnøen [now Klostervågen, Halsnøya]; [no habitat data]; 16.v.1891; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 35 mistakenly list the collector as 'Hamstun']; **TRH A15-909.**
- Howe; Bahamas; Watling Island, south-eastern end; on *Thalassia*, washed ashore; 27.xi.1907; [no slides]; [Howe collection number] 5127; [no pfa]; [Note: 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip inside packet]; **TRH A15-910.**
- Howe; [Canada]; Nova Scotia, in Halifax Harbor, Purcell's Cove; on *Zostera*; 2.-7 ix.1901; [no slides]; [Howe collection number] 1020; [no pfa]; [no notes]; **TRH A15-934.**
- Howe; [United States]; Florida, Key West; on *Thalassia*; 8.xi.1902; seven slides, all labelled with Howe collection number 1643; [no other collection data]; [no pfa]; [Note: 'New York Botanical Garden North American Marine Algae' [NY] printed on slip inside packet. Packet marked 'koncept. lidt mindre og cell. ofte længere end hos typiske form [= conceptacles some smaller and cells often longer than typical form]']; **TRH A15-911.**
- Kylin; Sverige [= Sweden]; Koster; [no habitat data]; 19.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia lejolisii* fere [= nearly] f. *limitata*']; **TRH A15-912.**
- Kylin; [Sweden]; Väderöarne; [no habitat data]; 30.vi.1905; [no slides]; [no other collection data]; [no pfa]; [Note: outside of packet marked with the number 4]; **TRH A15-913.**
- Magnus; [Netherlands]; Holland, Nieuwe-Drep; 'auf [= on] *Zostera marina*'; 21.viii.1872; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia membrana-cea* = *M. lejolisii*'. Collection possibly included in Adey & Lebednik 1967: 34 as '?? 21.8.1872']; **TRH A15-914.**
- Penhallow; [United States]; Massachusetts, Woods Hole; on *Zostera marina*; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 'Wood's Holl Mass, abundant' and 'Kittery Maine, sparingly']; **TRH A15-915.**
- Rosenvinge; Denmark; ved [= near] Ballonen ved nordenden af [= at the north end of] Rudkjøbing løbet [= mouth]; collection depth: 3 fathoms, 'paa [= on] *Zostera*'; 15.v.1892; [no slides]; Rosenvinge [collection number] 2560; [no pfa]; [Note: packet marked '[Ea]' and '*M. lejolisii* f. *typica*'. '[Ea]' is a locality code used by Rosenvinge (see Rosenvinge 1909: 18-54). Packet also marked 'cyst. konc. [= cystocarpic conceptacles] ca. 150µ - ikke krone [= no crown (corona)]' and 'anth. k. [= antheridial conceptacles] ca. 60-80µ - ikke krone [= no crown (corona)] - men mundingscell. maaske lidt længre lidet fremst [= but mouth (pore canal) cells maybe somewhat longer and slightly protruding]' and 'ikke fundet sp. [= sporangia not found]']; **TRH A15-916.**

- Rosenvinge; Denmark; ved [= near] Birkholm, Sydfynske Øgaard [= skerries south of Fyn]; 'paa [= on] *Zostera*'; 18.ix.1890; one slide labelled with Rosenvinge collection number 1145; Rosenvinge collection number 1145; [no pfa]; [Note: packet marked 'cyst. konc. 160 μ uden krone [= cystocarpic conceptacles 160 μ , without a crown (corona)]]; **TRH A15-917.**
- Rosenvinge; Denmark; Holmtunge Hage, Løgstør Bredning; on *Zostera*; 28.viii.1893; [no slides]; Rosenvinge collection number 3960; [no pfa]; [Note: packet marked '[MK]' and 'cyst.? konc. [= cystocarpic? conceptacles]' and 'uden krone? [= without a crown (corona)?]'. '[MK]' is a locality code used by Rosenvinge (see Rosenvinge 1909: 18-54)]; **TRH A15-918.**
- Rosenvinge; Denmark; Horsens Fjord ved [= near] Riskosten; collection depth: 2-6 fathoms, 'paa [= on] *Zostera*'; 16.ix.1893; [no slides]; Rosenvinge collection number 4021; [no pfa]; [Note: packet marked '*M. farinosa lejolisii* f. *typica*' and 'Sp. [= sporangia]' and '[Mt]'. '[Mt]' is a locality code used by Rosenvinge (see Rosenvinge 1909: 18-54). Grouped with A15-920 under one entry in Adey & Lebednik 1967: 34, who list the locality as 'Korsensfjord']; **TRH A15-919.**
- Rosenvinge; Denmark; Horsens; 'paa [= on] *Zostera*'; 17.ix.1893; [no slides]; Rosenvinge collection number 4032; [no pfa]; [Note: packet marked 'cyst. konc. 140-200 μ , uden krone. Carposp. todelte ell. udelte, se skissen [= cystocarpic conceptacles 140-200 μ , without crown (corona). Carposporangia bipartite or undivided, see the sketch]'. The holotype of *Melobesia subplana* (see Wegberg 2001: 331) in **C** has the same collection data and Rosenvinge collection number and is marked '*Meobesia subplana* K. Rosenvinge (*Melobesia lejolisii* Rosan. F. *typica* determ Foslie)'. The name *Melobesia subplana*, however, does not appear on the **TRH** collection. Grouped with A15-919 under one entry in Adey & Lebednik 1967: 34, who list the collection locality as 'Korsens']; **TRH A15-920.**
- Rosenvinge; Denmark; ved [= near] Kragenæs, ovenfor [= above] Fejø; collection depth: 2.5 fathoms, 'paa [= on] *Zostera*'; 23.ix.1891; [no slides]; Rosenvinge collection number 2179; [no pfa]; [Note: Adey & Lebednik 1967: 34 list locality as 'Kragenas, Fyø']; **TRH A15-921.**
- Rosenvinge; Denmark; Limfjorden, Lunde Hage; collection depth: 10 fathoms; 5.ix.1890; [no slides]; Rosenvinge collection number 959; [no pfa]; [Note: packet marked '*M. lejolisii* f. *typica*' and 'Krone. Se skisse [= crown (corona). See sketch]']; **TRH A15-922.**
- Rosenvinge; Denmark; Munkebo ved [= near] Kjertinge Nor; 'paa [= on] *Zostera*'; 13.viii.1893; [no slides]; Rosenvinge collection number 3768; [no pfa]; [Note: packet marked '*M. lejolisii* f. *typica*' and 'sp. [= sporangia]']; **TRH A15-923.**
- Rosenvinge; Denmark; Nykjøbing p. Mors [= Mors Island at Nykjøbing]; 'paa [= on] *Zostera*'; 6.ix.1890; one unnumbered slide; Rosenvinge collection number 970; [no pfa]; [Note: packet marked '*M. lejolisii* f.' and slide marked '*M. lejolisii* fere [= nearly] f. *typica*']; **TRH A15-924.**
- Rosenvinge; Denmark; P.P. Ryes Flak; collection depth: 2.5 fathoms, 'paa [= on] *Furcellaria fastigiata*'; 23.iv.1894; one unnumbered slide; Rosenvinge collection number 4670; [no pfa]; [Note: packet marked '*M. lejolisii* forma' and 'tyk. smaa & lave konc! [= thick, small and low conceptacles]' and 'Alg. Mar. Danicæ']; **TRH A15-925.**
- Rosenvinge; Denmark; Samsø ved nordenden af [= at the north end of] Besser Rev; 'paa [= on] *Ruppia*'; 19.viii.1900; one unnumbered slide; Rosenvinge collection number 6795a; [no pfa]; [Note: packet and slide marked '*M. lejolisii* f. (*typica*)']; **TRH A15-926.**
- Rosenvinge; Denmark; Skagerak, S.O. for [= south east of] Bragerne; collection depth: 5.5 fathoms; 10.vii.1902; one unnumbered slide; Rosenvinge collection number 7191; [no pfa]; [no notes]; **TRH A15-927.**
- Rosenvinge; Denmark; [NS] mellem [= between] Slipshavn og [= and] Knudshoved; collection depth: 3 fathoms, 'paa [= on] *Zostera*'; 24.i.1894; one unnumbered slide; Rosenvinge collection number 4214; [no pfa]; [Note: collection consists only of one slide marked '*M. lejolisii* f. *typica*']; **TRH A15-928.**

- Rosenvinge; Denmark; Svendborg; 'paa [= on] *Zostera*'; 16.ix.1891; [no slides]; Rosenvinge collection number 2009; [no pfa]; [Note: packet marked '*M. lejolisii* f. *typica*']; **TRH A15-929.**
- Rosenvinge; [Denmark]; Thyborøn, ved den gl. [= by the old] Lassebro; 'paa [= on] *Zostera*'; 25.vii.1905; [no slides]; Rosenvinge collection number 7765; [no pfa]; [Note: packet marked 'Alg. Mar. Danicæ']; **TRH A15-930.**
- Sauvageau; [France]; Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 'med hyal. cell [= with hyaline cells]']; **TRH A15-931.**
- Sauvageau; [France]; Finistère, Concarneau; 'paa [= on] *Zostera*'; iii.1900; two unnumbered slides; [no other collection data]; [no pfa]; [Note: packet marked with sporangial conceptacle and tetrasporangial size data. Grouped with a collection of *Melobesia lejolisii* f. *limitata* (A15-969) under one entry in Adey & Lebednik 1967: 35]; **TRH A15-932.**
- Schmidt-Nielsen; Spain; Santander; 'paa [= on] *Zostera*'; viii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia farinosa-lejolisii* paa [= on] *Zostera* (*Cymodocea*?)']; **TRH A15-933.**
- [Anon.]; [France]; Cherbourg; 'paa [= on] *Zostera*'; 25.i.1853; four unnumbered slides; ex herb. G. Thuret, comm. Bornet **[PC]**; [no pfa]; [Note: collection has label with 'Herb. G. Thuret' and 'Donné par Mr Ed. Bornet' printed on it]; **TRH A15-936.**
- [Anon.]; [France]; Cherbourg, Flamands; 'sur la [= on] *Zostera*'; 21.x.1884; one unnumbered slide; [no other collection data]; [no pfa]; [no notes]; **TRH A15-937.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; 30.xi.1853; four slides, all numbered 240; Le Jolis herbarium number 240 **[CHE]**; [no pfa]; [Note: packet marked '*M. pustulata*' and '*Lithoth. membranacea* og [= and] *M. lejolisii* forma eller [= or] f. *limitata*? (vistn. ialf. delvis [= at least partly])'. Presumably grouped with A15-939 and A15-940 under one entry in Adey & Lebednik 1967: 35 that reads 'herb. Le Jolis France, Cherbourg, 21.10.1887, no. 240 (3)']; **TRH A15-938.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; 21.x.1884; [no slides]; Herb. A. Le Jolis **[CHE]**, [number] 2416; [no pfa]; [Note: packet housing material is a page from a French publication. Collection presumably grouped with A15-938 and A15-939 under one entry in Adey & Lebednik 1967: 35 that reads 'herb. Le Jolis France, Cherbourg, 21.10.1887, no. 240 (3)']; **TRH A15-940.**
- [Anon.]; [France]; Cherbourg; 'sur la [= on] *Zostera*'; 21.xi.1887; [no slides]; herb A. Le Jolis **[CHE]**, [number] 2416; [no pfa]; [Note: entry in Adey & Lebednik 1967: 35 reads 'herb. Le Jolis, 1884, no. 2416']; **TRH A15-941.**
- [Anon.]; [France]; Cherbourg; 'sur la [= on] *Zostera*'; [no date]; [no slides]; herb. A. Le Jolis **[CHE]**; [no pfa]; [Note: packet marked '*M. lejolisii*' above a handwritten label that includes the name '*Melobesia farinosa*'. Presumably grouped with A15-938 and A15-940 under one entry in Adey & Lebednik 1967: 35 that reads 'herb. Le Jolis France, Cherbourg, 21.10.1887, no. 240 (3)']; **TRH A15-939.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; [no date]; [no slides]; comm. Hariot xii.1908, number 1 [material almost certainly sent from **PC**]; [no pfa]; [Note: packet marked '*M. lejolisii* f. *typica*'. Grouped with a collection of *Melobesia lejolisii* f. *limitata* (A15-970) under one entry in Adey & Lebednik 1967: 35 who mistakenly list the collector as 'Hariot' and the collection date as '1902']; **TRH A15-942.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*M. lejolisii* f. *typica*' and 'Sp. konc. til fotogr. [= sporangial conceptacles for photography]'. Annotation slip in box marked '*M. farinosa* Le Jol. Alg. Cherb. pro parte'. It is unclear which Cherbourg collection this material originated from]; **TRH A15-943.**
- [Anon.]; [Norway]; Bolærene [now Bolærne]; [no habitat data]; 29-31.viii.1881; [no slides]; [no other collection data]; [no pfa]; [Note: sheet marked '*Melob. farinosa* og [= and] *lejolisii*?']; **TRH A15-947.**

- [Anon.]; [Norway]; Bolærene [now Bolærne]; [no habitat data]; 31.viii.1881; [no slides]; [no other collection data]; [no pfa]; [Note: the collection consists of one sheet, but the specimens have become detached and are no longer identifiable. All detached and specimens lacking collecting information have been placed in one box in A15 and marked 'Div. løst materiale fra A15 [= diverse loose material from A15]'. Sheet marked '*M. lejolisii* og [= and] *farinosa* (enkeltvis [= individually]) *pustulata*, *Melob.-farinosa*'. Adey & Lebednik 1967: 34 listed the locality as 'Boløene?' and indicated that two sheets occurred, but only one has been found]; **TRH A15-945.**
- [Anon.]; [Norway]; Fredriksværn [in Larvik municipality]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: sheet marked '*M. lejolisii* og [= and] (*pustul. steril* [= sterile])']; **TRH A15-935.**
- [Anon.]; [Norway]; Hvaløerne [now Hvaler]; 'paa [= on] *Chondrus*'; 18.viii.1884; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 's. med & over [= mixed with and over] *L. membr.*' and '*M. farinosa* f. *borealis* eller [= or] *M. lejolisii*?'. Listed under *Melobesia lejolisii* in Adey & Lebednik 1967: 34]; **TRH A15-948.**
- [Anon.]; [Norway]; Langesund, Fuglø [now Fugløya]; collection depth: ca 5 fathoms; 12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '256' and 'XIII'. Collection not included in Adey & Lebednik 1967]; **TRH A15-949.**
- [Anon.]; [Norway]; Langesund, Rongsfjord [now Rognsfjorden]; collection depth: 3-6 fathoms, 'paa [= on] *Laminaria*-blade'; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '(Et par *Lith. membr.* udtaged [= a couple of *Lith. membr.* (plants) taken out)'. Annotation inside packet marked 'ca. 5 fathoms'. Grouped with A15-951 under one entry in Adey & Lebednik 1967: 35]; **TRH A15-950.**
- [Anon.]; [Norway]; Langesund, Fuglø [now Fugløya] ell. [= or] Rongsfjord [now Rognsfjorden]; collection depth: ca 5± fathoms, 'paa [= on] *Chondrus*'; 11.-12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A15-950 under one entry in Adey & Lebednik 1967: 35]; **TRH A15-951.**
- [Anon.]; [Norway]; Lyngør; collection depth: ca 5 fathoms, 'paa [= on] *Zostera*'; 15.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: includes small box with conceptacle bearing fragments rediscovered during the present study. Packet marked 'cyst. & anth. konc. udtat til fotogr. [= cystocarpic and antheridial conceptacles taken out for photography]']; **TRH A15-952.**
- [Anon.]; [Norway]; Mandal; [no habitat data]; 10.viii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: sheet marked '*Melob. farin. lejolisii*']; **TRH A15-953.**
- [Anon.]; [Norway]; Mandal; [no habitat data]; 10.viii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: the collection consists of one sheet, but the specimens have become detached and are no longer identifiable. All detached and specimens lacking collecting information have been placed in a box in A15 and marked 'Div. løst materiale fra A15 [= diverse loose material from A15]'. Sheet marked '*Melob. farinosa lejolisii*']; **TRH A15-954.**
- [Anon.]; [Sweden]; [Bohuslen], Flatholmen; [no habitat data]; 20.vi.1887; [no slides]; [no other collection data]; [no pfa]; [Note: the collection consists of two sheets. One sheet is 'marked *Melob. farinosa? lejolisii*'. Other sheet is marked '*Melob. farinosa*'. Specimens have become detached and are no longer identifiable. All detached and specimens lacking collecting information have been placed in one box in A15 and marked 'Div. løst materiale fra A15 [= diverse loose material from A15]']; **TRH A15-946.**
- [Anon.]; [geographic region uncertain]; Marholm [see Note]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: specimen sheet marked '*Melobesia farinosa* Lam = *M. lejolisii*?'. No coastal locality with the name Marholm was identified during the present study, but the locality Marholmen occurs in northern Norway]; **TRH A15-955.**

***lejolisii*, *Melobesia* (f. *limitata*)** [originally described as *Melobesia lejolisii* f. *limitata* (Foslie 1905c: 102) but form not formally transferred when (Foslie 1909b: 56) species was transferred from *Melobesia* into *Heteroderma*. Collections listed in Adey & Lebednik 1967: 34-

35 under *Melobesia lejolisii* without mention of forma]. **Lectotype:** TRH, A15-964 (see below).

- Collins, F.S.; [United States]; Rhode Island, Newport; [no habitat data]; [no date]; [no slides]; P.B.A. LIX. [P.B.A. = *Phycotheca Boreali Americana*]; [no pfa]; [Note: packet marked 'Melob lejolisii (f. *limitata*) og smaa skorper [= and small crust of] *L. pustulatum* og [= and] *Melobesia farinosa*?'] and 'with other *Melobesia* sp.']; **TRH A15-959.**
- Kylin; [Sweden]; Koster; collection depth: 20 metres, 'på [= on] *Laminaria hyperborea*'; 20.ii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '3' and 'og andet stk. 3 smaa skorper *Lithoph. macr.* [= and another piece, 3 small crusts of *Lithophyllum macrocarpum*']]; **TRH A15-960.**
- Rosenvinge; Denmark; Amtøft Rev, Løgstør Bredning; 'paa [= on] *Fucus vesicul.*'; 28.viii.1893; [no slides]; Rosenvinge collection number 3929; [no pfa]; [Note: packet marked 'Melob lejolisii f. *limitata* & *L. pustul.* f. *intermedia*'. A small packet inside the main packet is marked 'a.']; **TRH A15-961.**
- Rosenvinge; Denmark; Askhoved, mell. [= between] Horsens og [= and] Vejle Fjord; collection depth: 5-6 fathoms, 'paa bladet af [= on the blade of] *Laminaria digitata*'; 20.viii.1891; one slide labelled with Rosenvinge collection number 1775a; Rosenvinge collection number 1775a; [no pfa]; [Note: packet marked '*M. lejolisii* f. *limitata* – *typica*' and 'dækceller + store hyal. cell. [= cover cells (epithallial cells) + large hyaline cells]'. Adey & Lebednik 1967: 35 list locality as 'Askhoved, Korsnes-Vejlefjord']; **TRH A15-962.**
- Rosenvinge; Denmark; Deget ved [= by] Frederikshavn; 'p. [= on] *Chondrus crispus*'; 23.ix.1892; [no slides]; Rosenvinge collection number 3125; [no pfa]; [Note: packet marked '*L. lejolisii* f. *limitata* delvis paa [= partly on] *Lith. membran.*'. Collection not included in Adey & Lebednik 1967]; **TRH A15-963.**
- Rosenvinge; Denmark; Limfjorden, Lendrup Røn; 'paa luftbl. og løvet af [= on air bubbles and leaves of] *Fucus vesiculosus*'; 22.viii.1893; five slides numbered 3807; Rosenvinge collection number 3807; [no pfa]; [Note: **Lectotype** of *Melobesia lejolisii* f. *limitata* Foslie. Additional data — Chamberlain 1983: 376, and Woelkerling 1993: 137. Packet marked 'og [= and] *L. pustulatum* f. *intermedia* (spars.! [= sparse!)]' and 'udtat til fotogr. sp. konc. [= sporangial conceptacles taken out for photography]'. Collection includes additional small box with conceptacle bearing fragments rediscovered during the present study]; **TRH A15-964.**
- Rosenvinge; Denmark; Limfjorden, Thisted; 'paa [= on] *Fucus vesiculosus*'; 10.ix.1890; [no slides]; Rosenvinge collection number 1061; [no pfa]; [Note: packet marked '*Melobesia lejolisii* f. *limitata*' and '*Lithophyllum pustulatum* f. *intermedia*' and 'Konc. se indiv.! [= conceptacles see inside!']]; **TRH A15-965.**
- Rosenvinge; Denmark; Limfjorden, Venø Bugt [= bay] udfor [= off] Nørreskov; 'paa [= on] *Fucus vesiculosus*'; 8.ix.1890; [no slides]; Rosenvinge collection number 1005; [no pfa]; [Note: packet marked '*M. lejolisii* f. *limitata* og [= and] *L. pustulatum* f. *intermedia*']; **TRH A15-966.**
- Rosenvinge; Denmark; stenrev under [= stone reef under] Hanklit, Thisted Bredning; 'paa [= on] *Fucus vesiculosus*'; 27.viii.1893; one slide labelled with Rosenvinge collection number 3913; Rosenvinge collection number 3913; [no pfa]; [Note: packet marked '*M. lejolisii* f. *limitata* (og [= and] *Lithoph. pustulatum* f. *intermedia*)']; **TRH A15-967.**
- Rosenvinge; Denmark; Søndre [= southern] Røn v. [= near] Lemvig; 'paa [= on] *Fucus vesiculosus*'; 9.ix.1890; [no slides]; Rosenvinge [collection number] 1034; [no pfa]; [Note: packet marked '*Melob. lejolisii* f. *limitata* og [= and] *L. pustulatum* f. *intermedia*' and 'konc. [= conceptacles]' and 'bør udtage *L. pustul* [= *L. pustul.* recommend to be taken out]'. Annotation slip inside packet marked 'violetagdige skorper [= violet coloured crusts]']; **TRH A15-968.**
- Sauvageau; [France]; Finistère, Concarneau; 'paa [= on] *Laminaria*'; iii.1900; six unnumbered slides; comm. Bornet; [no pfa]; [Note: packet marked '*M. lejolisii* f. *limitata*? (vistn. ialf. delvis [= at least partly]) og [= and] *M. farin.* cfr. formen fra [= cf. the form from] Round-

stone under [= under] *M. farin.*. Grouped with a collection of *Melobesia lejolisii* (A15-932) under one entry in Adey & Lebednik 1967: 35]; **TRH A15-969.**

[Anon.]; [France]; Cherbourg; 'paa [= on] *Laminaria*'; [no date]; one unnumbered slide; comm. Hariot xii.1908, number 2 [material almost certainly sent from **PC**]; [no pfa]; [Note: packet marked '*M. lejolisii* f. *limitata*'. Grouped with a collection of *Melobesia lejolisii* (A15-942) under one entry in Adey & Lebednik 1967: 35 who mistakenly list the collector as 'Hariot' and the collection date as '1902']; **TRH A15-970.**

leptura, Melobesia [originally described as *Melobesia leptura* (Foslie 1906b: 16), but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** **TRH**, A15-971 (see below).

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone on *Stenogramme*; vi.1904; two slides, both labelled with Setchell number 6105a; 6105a [Setchell collection number]; [no pfa]; [Note: **LECTOTYPE** of *Melobesia leptura* Foslie. Additional data — Wilks & Woelkerling 1991: 528, and Woelkerling 1993: 137 (both mistakenly list the type locality as 'Bay of Islands'), and Woelkerling 1997: 248-249. Packet marked '#6105a delvis [= in part]' and '*Melobesia leptura* og [= and] *Lithoph. (Carpol.) explanatum*'. Collection A16-3818 has the same Setchell collection number (6105a). One slide is marked 'paa tynde skorpe [= on thin crust of] *Stenogramme*'. The other is marked 'paa [= on] *Stenogramme* tykkere skorpe [= thicker crust]'. Collection includes small box with conceptacle bearing fragments rediscovered during the present study]; **TRH A15-971.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; on *Pterocladia lucida*, uppermost sublittoral zone; vi.1904; [no slides]; 6028 [Setchell collection number]; [no pfa]; [Note: packet marked '#6028 delvis [= in part]' and 'og [= and] *Lithoph. (Carpol.) explanatum*'. Grouped with A15-973 under one entry in Adey & Lebednik 1967: 35. A second packet with Setchell number 6028 is filed under *Melobesia explanata* (A16-3817)]; **TRH A15-972.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; on *Lenormandia*, uppermost sublittoral zone; vi.1904; [no slides]; 6052a [Setchell collection number]; [no pfa]; [Note: packet marked '#6052a delvis [= in part]' and 'og [= and] *Lithoph. (Carpol.) explanatum*' and '*Lithoph. patena* f. *incisa*'. Grouped with A15-972 under one entry in Adey & Lebednik 1967: 35. A second packet with Setchell number 6052a is filed under *Melobesia explanata* (A16-1004)]; **TRH A15-973.**

[Anon.]; Australia; [Victoria], Port Phillip [Bay]; [no habitat data]; [no date]; [no slides]; [ex] herb. A. Le Jolis [**CHE**]; [no pfa]; [Note: packet marked 'steril [= sterile]' and '*Melobesia amplexifrons* = *M. leptura* og anden, steril art [= and another sterile species]'. One annotation slip in packet marked 'violette skorper [= violet crusts]']; **TRH A15-974.**

minutula, Melobesia [originally described as *Melobesia minutula* (Foslie 1904c: 8), but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** **TRH**, A15-976 (see below).

Foslie; [Norway]; Fredriksværn [in Larvik municipality]; collection depth: ca 5 fathoms, 'paa chitinrør af hydroider [= on chitin tubes with hydroides]'; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A15-975.**

Foslie; [Norway]; Hvaløerne [now Hvaler], "Galtene" [now Galtane] ved [= near] Kirkøen [now Kjerkøy]; collection depth: ca 5-8 fathoms, 'paa [= on] *Corallina officinalis*'; 25.vii.1903; slides 878, 885, and eight unnumbered slides; [no other collection data]; [no pfa]; [Note: **Holotype** of *Melobesia minutula* Foslie. Additional data — Chamberlain 1983: 392-395 (as *Pneophyllum confervicolum* f. *minutulium*), and Woelkerling 1993: 151. Three of the

slides are marked '*Melobesia minutula* f. *lacunosa*'. Small packet in box marked '*Pneophyllum confervicolum* (Kütz) comb. nov. forma *lacunosum* syn. *Melobesia minutula* Foslie TYPE. Det. Y. Chamberlain. 27.i.1981'; **TRH A15-976**.

Rosenvinge; Denmark; Tønneberg Banke; collection depth: '8 fv. 2' [fv. = fathoms], 'paa hydroider paa [= on hydroides on] *Polysiphonia elongata*'; 27.ix.1894; two slides labelled with Rosenvinge collection number 5380 and three unnumbered slides; Rosenvinge collection number 5380; [no pfa]; [Note: annotation slip with collection data also marked 'ikke fundet sp. [= sporangia not found]']; **TRH A15-977**.

[Anon.]; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms, paa [= on] *Corallina officinalis*'; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '(s med [= mixed with] *L. pustul.*)'. Collection not included in Adey & Lebednik 1967]; **TRH A15-978**.

minutula, *Melobesia* (f. *lacunosa*) [originally described as *Melobesia minutula* f. *lacunosa* (Foslie 1905c: 108) but form not formally transferred when (Foslie 1909b: 56) species was transferred without change in rank from *Melobesia* into *Heteroderma*. Collections listed in Adey & Lebednik 1967: 35 under *Melobesia minutula* without mention of forma]. **Lectotype: TRH, A15-979** (see below).

Kjellman; Sverige [= Sweden]; Bohuslän; 'paa bladet af [= on the blade of] *Laminaria hyperborea*'; 1870; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked 's. med. ell. delvis overvokset af [= mixed with or partly overgrown by] *M. lejolisii* fere [= nearly] f. *limitata*'. Slide marked '*M. lejolisii* fere f. *limitata* delvis overvokset *M. minutula*, ekspl. blandt *M. minutula* [= *M. lejolisii* nearly f. *limitata* partly overgrown by *M. minutula*, specimen among *M. minutula*']; **TRH A15-980**.

Kjellman & Bovallius; Sverige [= Sweden]; Norra Koster; 'paa bl. af [= on blade of] *Laminaria*'; 28.v.1870; two unnumbered slides; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Melobesia minutula* f. *lacunosa* Foslie. Additional data — Woelkerling 1993: 135. Packet marked 'og [= and] *M. farinosa* f. *borealis*?' and 'præp. blandt [= slide among] *farin.*' and 's. med en liden skorpe af *L. pustulatum* returnerede stk. [= mixed with a small crust of *L. pustulatum* returned pieces']. One slide marked '*M. farinosa* f. *borealis*?, *M. lejol.*?, ekspl. blandt [= specimen among] *M. minutula*'. Adey & Lebednik 1967: 35 list only 'Kjellman' as the collector]; **TRH A15-979**.

polycarpa, *Melobesia* [a nomen nudum used by Foslie for one collection in his herbarium. The binomial was coined by Zanardini 1843: 44 but lacks a description]

[Anon.]; [Sweden]; Boh. [= Bohuslän?], Fiskebäckskil Bah.; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia polycarpa* Aresch.'. Listed in Adey & Lebednik 1967: 34 as 'Bah Fiskebackkil?' under *Melobesia lejolisii*]; **TRH A15-981**.

subplana, *Melobesia*

See collection A15-920 under *Melobesia lejolisii*.

triplex, *Melobesia* [originally described as *Melobesia triplex* (Heydrich 1902: 473) but considered by Foslie (1905d: 8 & 1907a: 21) to be a heterotypic synonym of *M. cymodocea*. The type of *Melobesia triplex* was found with other collections of *M. cymodocea* in Foslie's herbarium]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 381).

Ferlus; Madagascar; Fort-Dauphin; paa [= on] *Neurymenia*; [no date]; slide 853 and one unnumbered slide; [no other collection data]; [no pfa]; [Note: **Holotype fragments** of *Melobesia triplex* Heydrich. Additional data — Woelkerling 1998c: 381, who was unaware that the **TRH** fragments came from the type of *M. triplex*. Packet marked '*Melob. triplex*

Heydr. = *M. cymodocea*' and 'ca 25 S.B. [= south latitude]'. Slide marked '(Mus. d'hist. nat. Paris)'. Collection listed under *Melobesia cymodocea* in Adey & Lebednik 1967: 32]; **TRH A15-796.**

vanheurckii, Epilithon [name first appeared in 1904 (Chalon 1904: 17) as *Lithothamnion vanheurckii* Heydr. but as a nomen nudum, then described and validly published as *Lithothamnion vanheurckii* (Heydrich in Chalon 1905: 207). Subsequently (Heydrich 1905: [1]) transferred without change in rank into *Epilithon*, but considered by Foslie (1905c: 110) to be a heterotypic synonym of *Melobesia minutula*]. **Lectotype: AWH**, unnumbered (Chamberlain & Irvine 1994: 199).

van Heurck; [Channel Islands]; Jersey, St. Brelade; [no habitat data]; [no date]; five unnumbered slides; comm. van Heurck and Chalon, 14.x.1905; [no pfa]; [Note: **Isolectotype** of *Lithothamnion vanheurckii* Heydrich. Additional data — Chamberlain & Irvine 1994b: 199, and Harvey & Woelkerling 1995: 374. Labels and notes variously indicate van Heurck as collector or communicator and one label indicates Chalon as communicator. Collection includes a note with cell dimension information on this and various other collections. Slides variously labelled '*Lithothamn. (Epilithon) vanheurckii*', '*Lithoth. (Epilithon) vanheurckii*', '*L. (Epilithon) vanheurckii*', or '*Epilithon vanheurckii*'. Listed under *Epilithon vanheurckii* in Adey & Lebednik 1967: 35]; **TRH A15-982.**

zostericola, Melobesia [originally described as *Lithophyllum zostericum* (Foslie 1900h: 5) but subsequently (Foslie 1907b: 25) transferred without change in rank into *Melobesia* and then (Foslie 1909b: 56) into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909. See Woelkerling 1993: 240 for additional nomenclatural comments]. **Lectotype: TRH**, A15-985 (see below).

Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'hab. fotogr. [= habitat photographed]' and 'sp. 4 delte [= sporangia 4-parted]'. Collection includes small box marked 'konc. til fotogr. [= conceptacles for photography]'. Grouped with A15-984 under one entry in Adey & Lebednik 1967: 36]; **TRH A15-983.**

Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Melobesia zostericola* (?)'. Grouped with A15-983 under one entry in Adey & Lebednik 1967: 36]; **TRH A15-984.**

Yendo; Japan; Pacific coast of middle Japan, Marine Lab. at Sagami Prov.; 'paa [= on] *Zostera*'; viii.1899; slide 1343; Yendo collection 1899 number 1; [no pfa]; [Note: **Lectotype** of *Lithophyllum zostericum* Foslie. Additional data — Woelkerling 1993: 239. Slide 1343, recorded missing by Woelkerling (1993: 239), was rediscovered during the present study and returned to the collection. Box also marked '*Lithophyllum zostericum* f. *tenuis*'; **TRH A15-985.**

Yendo; Japan; Pacific coast of middle Japan, Otaru, Yesso; 'paa [= on] *Zostera*'; viii.1899; slide 1344; Yendo collection 1899 number 2; [no pfa]; [Note: box incorrectly marked as type material in Adey in Adey & Lebednik 1967: 36 but corrected in Adey 1970b: 17 (also see Woelkerling 1993: 240). Box contains a small capsule marked '*P. zostericum* – SEM –']; **TRH A15-986.**

Yendo; Japan; Prov. of Shima, Wagu; [no habitat data]; iii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'eller [= or] Prov. Mikava Dec. 1899?']; **TRH A15-987.**

Undocumented mixture of material

[Anon.]; [geographic regions unknown]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Div. løst materiale fra

A15 [= diverse loose material from A15]'. Box contains numerous seagrass leaves (probably representing several species) with epiphytic coralline algae (almost certainly representing a mixture of species collected from different localities on different dates). Collecting data are totally lacking, and individual seagrass leaves could not be linked to any particular collection in Drawer A15 although many of the leaves probably originated from A15 collections. A single **TRH** collection number has been assigned to the box to facilitate citation of the material. Collection not included in Adey & Lebednik 1967; **TRH A15-3845**.

Case A, Drawer 16

During the present study, some loose notes were found that could not be linked to any particular collection. These now have been placed in an envelope labelled 'Loose notes found in Drawer A16'.

accola, *Litholepis* [originally described as *Litholepis accola* (Foslie 1907a: 22), but not mentioned in Foslie's subsequent publications]. **Holotype: TRH, A16-988** (see below).

[Seurat]; [Tuamotu Archipelago]; Hao; [no habitat data]; [20.xii.1904]; slide 1439; [ex] Mus. Paris [**PC**], [comm.] Hariot iv.1907, number 20; [no pfa]; [Note: **Part of holotype** of *Litholepis accola* Foslie. Additional data — Woelkerling 1993: 15 and Woelkerling 1998c: 296. Major part of holotype is in **PC** (Woelkerling 1998c: 296. **TRH** collection includes a second box with conceptacle bearing fragments. Correct data on collector, collection locality and collection data determined by Woelkerling 1998c: 296. Data on **TRH** specimen box mistakenly lists 'Hao' as being in Tahiti and does not include collector or collection date. Entry in Adey & Lebednik 1967: 36 reads 'Hariot, Tahiti, Hao, no. 20, Mus. Paris, 4.1907']; **TRH A16-988**.

[Seurat]; [Tuamotu Archipelago]; Hao; [collected in] littoral lagoon; 20.xii.1904; slides 1470-1472; [ex] Mus. Paris [**PC**], [comm.] Hariot iv.1907, number 26; [no pfa]; [Note: box marked '*Litholepis accola* (delvis [= partly])' and 'præp. [= slides] 1471, 1472 og præp. [= and slide] 1470 af nr. [= of number] 25 (*Lithoph. rasile*)'. Slide 1470 marked '*Litholepis accola* paa [= on] *Lithop. (Derm.) rasile*'. Slide 1470 also pertains to the holotype of *Lithophyllum rasile* (A18-1241). Collector not indicated on box but presumed to be Seurat. Collection date given on box is the same as that for the type (previous entry), but locality mistakenly given as 'Hao, Tahiti']; **TRH A16-989**.

affinis, *Litholepis* [originally described as *Litholepis affinis* (Foslie 1906b: 17), where Foslie retained it in publication]. **Lectotype: TRH, A16-992** (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, north side; 'i fjæren [= in the tidal zone]'; 3.ii.1906; slides 1201-1202, 1245-1246; Børgesen collection number 1468; [no pfa]; [Note: annotation slip in box marked 'Præp. [= slide] 1201-1202, *Litholepis bermudense?* eller [= or] *crisp.?* Nye præp. 1245-46 delvis dekket af [= new slides 1245-46 partly covered with] *Lithoph. sp.*']; **TRH A16-990**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Longford Strand [= beach]; [no habitat data]; 1905-1906; slides 1259-1260, and two slides numbered 1261; [no other collection data]; [no pfa]; [Note: box marked 'Præp. 1259 af return. stk. [= slide 1259 of returned piece]' and '1260-61 af beh. stk. [= of retained piece]']; **TRH A16-991**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, America Hill at Whistling Island; collection depth: 15 fathoms; 21.iii.1906;

slides 1235-1236; Børgesen collection number 2072; [no pfa]; [Note: **Lectotype** of *Litholepis affinis* Foslie. Additional data — Woelkerling 1993: 22 and Woelkerling 1998c: 297. Collection includes small box with conceptacle bearing fragments rediscovered during the present study]; **TRH A16-992**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies now the U.S. Virgin Islands]; St. Jan, udfør [= outside] Fatchkey [but see Note]; collection depth: ca16 fathoms; 12.iii.1906; slides 1208, 1243, 1247; Børgesen collection number 1967; [no pfa]; [Note: box marked 'steril [= sterile]'. Specimen cited in species protologue (Foslie 1906b: 17). Locality on box and in protologue written as 'Fatchkey' by Foslie, but this is probably an error for either Great Thatch Island or Little Thatch Island]; **TRH A16-993**.

bermudensis, Melobesia [originally described as *Melobesia bermudensis* (Foslie 1901a: 22) but subsequently (Foslie 1905d: 6) transferred without change in rank into *Litholepis*]. **Holotype**: TRH, A16-994 (see below).

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; [no date]; slide 501; ex herb Farlow [FH], Farlow, 1900, number XXVII; [no pfa]; [Note: **Holotype** of *Melobesia bermudensis* Foslie. Additional data — Woelkerling 1993: 39. Collection includes a small box with one fragment probably used to prepare the slide]; **TRH A16-994**.

caspica, Litholepis [originally described as *Melobesia caspica* (Foslie 1900e: 131) but subsequently (Foslie 1905d: 6) transferred without change in rank into *Litholepis*]. **Lectotype**: TRH, A16-999 (see below).

Andrussow; [Turkmenistan]; d. Kaspisk Meeres [= Caspian Sea], Ostküste [= east coast], Kuuli; 'paa en [= on a] Turbo'; 1898; slides 368, 386; [no other collection data]; [no pfa]; [no notes]; **TRH A16-996**.

Andrussow; Kaspiske hav [= Caspian Sea], [country uncertain]; [no other locality data]; [no habitat data]; iii [?].1898; slide 369; [no other collection data]; [no pfa]; [Note: collection includes a small box with fragments]; **TRH A16-995**.

Henckel; [Azerbaijan]; Kaspiske hav [= Caspian Sea], Insel [= Island] Nargin, bei [= by] Baku; [no habitat data]; 6.v.1904; slides 1181, 1188; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 36 mistakenly list collector as 'Henotel']; **TRH A16-997**.

Lönnerberg; Kaspiske hav [= Caspian Sea], [country uncertain]; northern coast; 'paa [= on] *Neritina* & *Dreyssena*'; 'vaaren [= spring]' 1899; slide 385; [no other collection data]; [no pfa]; [no notes]; **TRH A16-998**.

Ostroumow; Kaspiske hav [= Caspian Sea], [country uncertain]; [no other locality data]; on *Neritina* & *Dreyssena*; 1899; [no slides]; comm. N. Andrussow; [no pfa]; [Note: **Lectotype** of *Melobesia caspica* Foslie. Additional data — Woelkerling 1986: 254, Woelkerling & Campbell 1992: 81, and Woelkerling 1993: 49. Box annotated to indicate that Ostroumow was based in Kazanam and that Andrussow was based in Juriew. Adey & Lebednik 1967: 36 mistakenly list the collector as 'Andrussow']; **TRH A16-999**.

chamaedoris, Melobesia [originally described as *Lithophyllum chamaedoris* (Foslie & Howe 1906b: (134)) but subsequently (Foslie 1908e: 6) transferred without change in rank into *Melobesia* and then (Foslie 1909b: 57) into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype**: NY, Howe collection 4017 (Woelkerling 1993: 50).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St Croix, White Bay; 'lavt vand [= low water], paa [= on] *Chamaedoris annulata*'; 9.ii.1906; [no slides]; Børgesen collection number 1575; [no pfa]; [Note: box marked '*Melob. Lithoph. (Carp.) chamaedoris* Foslie & Howe'. Collection date on annotation slip

in box is given as '2.ii.1906' but on box cover, this date is overmarked with '9.ii.1906'; **TRH A16-1000.**

Howe; Bahamas; Exuma Chain, Cave Cays; on *Chamaedoris*; 19.ii.1905; three slides labelled with Howe collection number 4017; [no other collection data]; [no pfa]; [Note: **Iso-type** of *Lithophyllum chamaedoris* Foslie & Howe. Additional data — Woelkerling 1993: 50 and Woelkerling & Verheij 1995: 39. Larger box marked '*Melob. Lithophyllum* (~~*Carpolithon*~~) *chamaedoris* Fosl. & Howe'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on collection slip in box. Collection includes fragments in a small box. The date '19.ii.1905' appears on the box cover, and on an annotation slip in the box and on one slide, while the date '17.ii.1905' appears on a second slide. The third slide lacks a date. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of holotype material in **NY**]; **TRH A16-1001.**

endophloea, Schmitziella [originally described as *Schmitziella endophloea* (Bornet & Batters in Batters 1892b: 186), but not mentioned in Foslie's subsequent publications. See Woelkerling 1998c: 389 for further information]. **Lectotype: BM**, unnumbered (Woelkerling & Irvine 1982: 278).

[Anon.]; [France]; Cherbourg, Pointe de Querqueville; 'paa [= on] *Cladophora pellucida*'; 1.ix.1856; [no slides]; [ex] Herb. G. Thuret **[PC]**; [no pfa]; [no notes]; **TRH A16-1002.**

explanata, Melobesia [originally described as *Lithophyllum explanatum* (Foslie 1906b: 25) but subsequently (Foslie 1908e: 6) transferred without change in rank into *Melobesia* and then (Foslie 1909b: 56) into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Lectotype: TRH**, A16-1003 (see below).

Setchell; New Zealand; Island Bay near Wellington [but see Note]; uppermost sublittoral zone, on *Ulva*; vi.1904; one slide numbered 6104a; Setchell collection number 6104a; [no pfa]; [Note: **Lectotype** of *Lithophyllum explanatum* Foslie. Additional data — Woelkerling 1993: 88. Collection includes packet and two small boxes with conceptacle bearing fragments, one of which was rediscovered during the present study. Accompanying annotation slip marked 'Herbarium of the University of California' **[UC]** and 'on *Ulva*'. Packet marked '*Melob. Lithophyllum explanatum*. Boxes marked '*L. explanatum*'. Slide marked '*Melobesia explanatum* paa [= on] *Ulva*'. Locality on collection boxes mistakenly given as 'Bay of Island' but in protologue (Foslie 1906b: 26) and on prepared slide correctly given as 'Island Bay'. Incorrect locality data from boxes also repeated in Adey & Lebednik 1967: 36 and Woelkerling 1993: 88, both of whom were unaware of prepared slide]; **TRH A16-1003.**

Setchell; New Zealand; [Island Bay near Wellington]; uppermost sublittoral zone on *Lenormandia*; vi.1904; [no slides]; Setchell collection number 6052a; [no pfa]; [Note: packet marked '*Melob. Lithophyllum explanatum*' and '*Melobesia leptura*' and '*Lithothamnion patena* f. *incisa*'. Host information and Setchell collection number on annotation slip inside packet. Annotation slip also marked 'Herbarium of the University of California' **[UC]**. A second packet with Setchell number 6052a is filed under *Melobesia leptura* in Drawer A15 (A15-973). Grouped with A16-3817 and A16-3818 under one entry in Adey & Lebednik 1967: 36]; **TRH A16-1004.**

Setchell; New Zealand; [Island Bay near Wellington]; uppermost sublittoral zone on *Pterocladia lucida*; vi.1904; [no slides]; Setchell collection number 6028; [no pfa]; [Note: packet marked '*Melob. Lithophyllum explanatum*' and '*Melobesia leptura*'. Host information and Setchell collection number on annotation slip inside packet. Annotation slip also marked 'Herbarium of the University of California' **[UC]**. A second packet with Setchell number 6028 is filed under *Melobesia leptura* in Drawer A15 (A15-972). Grouped with A16-1004 and A16-3818 under one entry in Adey & Lebednik 1967: 36]; **TRH A16-3817.**

Setchell; New Zealand; [Island Bay near Wellington]; uppermost sublittoral zone on *Stenogramme*; vi.1904; [no slides]; Setchell collection number 6105a; [no pfa]; [Note: packet marked '*Melob. (Carpolithon) Lithophyllum explanatum*' and '*Melobesia leptura*'. Host information and Setchell collection number on annotation slip inside packet. Annotation slip also marked 'Herbarium of the University of California' [UC]. A second packet with Setchell number 6105a is the lectotype of *Melobesia leptura*, in Drawer A15 (A15-971). Grouped with A16-1004 and A16-3817 under one entry in Adey & Lebednik 1967: 36]; **TRH A16-3818**.

indica, *Litholepis* [originally described as *Litholepis indica* (Foslie 1907a: 21), where Foslie retained it in publication]. **Holotype:** TRH, A16-1005 (see below).

Jadin; Réunion; [no other locality data]; [no habitat data]; iv.1890; slides 1364, 1428; Jadin collection number 542 (542b); [no pfa]; [Note: **Holotype** of *Litholepis indica* Foslie. Additional data — Woelkerling 1993: 125, who mistakenly lists slide 1428 as 1426. One annotation slip in box lists correct collection year of 1890 (see Lamy & Woelkerling 1998c: 212). Incorrect year of 1900 is written on box and on slides]; **TRH A16-1005**.

indica, *Litholepis* (f. *philippinensis*) [originally described as *Litholepis indica* f. *philippinensis* (Foslie 1908f: 9), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 36 under species without mention of forma]. **Holotype:** TRH, A16-1006 (see below).

Robinson; Philippines; Luzon Island, Province of Camarines, Adiagnao; 'lidt nedenfor lavvandsm. [= somewhat below low water mark]'; 29.viii.1908; slides 1715, 1716a, 1716b; [no other collection data]; [no pfa]; [Note: **Holotype** of *Litholepis indica* f. *philippinensis* Foslie. Additional data — Woelkerling 1993: 172, who mistakenly lists the collector as 'Rorinson'. Collection consists of three smaller boxes placed in one larger box. The collection date '19.viii.1908' occurs on slides 1716a and 1716b and the box marked 'præp. [= slide] 1716'. The box marked '1715' and printed note from Robinson are dated '29.viii.1908'. Printed note from Robinson also marked 'Flora of the Philippines, Herbarium, Bureau of Science.'. Third small box is marked '*Litholepis indica* f. *philippinensis*, af røde skorper, største sten [= of red crusts, largest stone]']; **TRH A16-1006**.

marginata, *Melobesia* (f. *sargassi*). See listing below for *sargassi*, *Melobesia*.

mauritiana, *Melobesia* [originally described as *Lithophyllum mauritianum* (Foslie 1907a: 32), but subsequently (Foslie 1908e: 5) transferred without change in rank into *Melobesia* and then (Foslie 1909b: 56) into *Heteroderma*. Name on box not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, A16-1007 (see below).

Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slides 34, 1365 and one unnumbered slide; Jadin collection number 531; [no pfa]; [Note: **Holotype** of *Lithophyllum mauritianum* Foslie. Additional data — Woelkerling 1993: 146. Box marked '*Melobesia (Pliostroma) Lithoph. (Carpolithon) mauritiana* (delvis overv. af anden kalkalge [= partly overgrown by another calcareous alga])'. Large round box annotated to indicate that Jadin was based in Montpellier. Collection also includes small round box with fragments chosen for photography]']; **TRH A16-1007**.

mediterranea, *Litholepis* [originally described as *Litholepis mediterranea* (Foslie 1906b: 17), where Foslie retained it in publication]. **Holotype:** TRH, A16-1009 (see below).

Kuckuck; [Greece]; Rhodos; 'an felsen in der uferzone [= on stone in the upper zone]'; 24.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'delvis overv. af anden art [= partly overgrown by another species]']; **TRH A16-1008**.
 Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [collected in] 'Ngt. udsat sted [= a somewhat exposed place]'; vi.1906; slides 1124-1125; [no other collection data]; [no pfa]; [Note: **Holotype** of *Litholepis mediterranea* Foslie. Additional data — Woelkerling 1993: 147 and Woelkerling 1998c: 297. Box marked '(og [= and] *L. sonderi* & *L. incrus.*)'. Collection includes small box with fragments chosen for photography]; **TRH A16-1009**.

sargassi, Melobesia [originally described as *Melobesia marginata* f. *sargassi* (Foslie 1904a: 22), then (Foslie 1906b: 26) elevated to species rank and transferred into *Lithophyllum* (as *L. sargassi*), then (Foslie 1908e: 6) transferred without change in species rank into *Melobesia* and then (Foslie 1909b: 57) into *Heteroderma*. Name on box not updated to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype**: **TRH**, A16-1010 (see below).

Yendo; Japan; Misaki; 'paa luftbl. især af [= on air bubbles especially of] *Sargassum serratifolium*'; iv.1903; slides 833, 843-844 and one unnumbered slide; [no other collection data]; [no pfa]; [Note: **Holotype** of *Melobesia marginata* f. *sargassi*. Additional data — Chamberlain 1983: 445, 447, Woelkerling 1993: 194, and Chamberlain 1994b: 131. Collection includes two small boxes with fragments chosen for photography and microscopy and a third small box containing conceptacle bearing fragments and an unnumbered slide rediscovered during the present study. Original box marked '*Lithoph. (Carpol.) Melob. marginata* f. *sargassi* Fosl.'. Unnumbered slide marked '*Melobesia sargassi*'; **TRH A16-1010**.

sauvageauii, Litholepis [originally described as *Litholepis sauvageauii* (Foslie 1905d: 6), where Foslie retained it in publication]. **Holotype**: divided between **PC**, General Herbarium, and **TRH** (A10-480) (Woelkerling 1998c: 297).

Sauvageau; Canary Islands; Tenerife, Puerto Orotava; [collected in] littoral region; xii.1904-ii.1905; slides 1023-1025; [no other collection data]; [no pfa]; [Note: **Part of holotype** of *Litholepis sauvageauii* Foslie. Additional data — Woelkerling 1993: 195 and Woelkerling 1998c: 297. Major part of holotype is in **PC** (Woelkerling 1998c: 297)]; **TRH A16-1011**.

subtilissima, Melobesia [originally described as *Melobesia subtilissima* (Foslie 1904b: 55) but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Name on box not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Holotype**: **L**, 941.98-194 (Verheij & Woelkerling 1992: 287).

[Weber-van Bosse]; [Indonesia]; [Island of] New Guinea, Adjatuning; 'paa [= on] *Corallina pilifera*'; 23.-25.viii.1899; two slides labelled with Siboga Expedition, station 169; Siboga Expedition, station 169; [no pfa]; [Note: **Holotype fragment** of *Melobesia subtilissima* Foslie. Additional data — Verheij & Woelkerling 1992: 287, and Woelkerling 1993: 218, and Woelkerling & Verheij 1995: 79. Collection includes conceptacle-bearing fragments in a small box rediscovered during the present study]; **TRH A16-1012**.

thuretii, Melobesia (Choreonema) [originally described as *Melobesia thuretii* (Bornet in Thuret & Bornet 1878: 96), but subsequently (Ardissone 1883: 451) transferred without change in rank into *Endosiphonia* and then (Schmitz 1889: 455) into the newly established genus *Choreonema*, where Foslie subsequently retained it]. **Lectotype**: **PC**, Thuret - Bornet Herbarium (Woelkerling 1987a: 113, Woelkerling 1998c: 381).

Holmes; [United Kingdom]; England, Sidmouth; in *Jania corniculata*; vi.1881; [no slides]; [no other collection data]; [no pfa]; [Note: the collection includes two packets with identical collecting information and a note marked 'Herb. M. Foslie'. Other information found in Drawer A16 relevant to the species is in a separate envelope marked 'Note and photos pertaining to the species *Melobesia thuretii* (= *Choreonema thuretii*)']; **TRH A16-1013**.

zonalis, *Melobesia* [originally described as *Hapalidium zonale* (P.L. & H.M. Crouan 1860: 284), then (Foslie 1898b: 11) transferred without change in rank into *Melobesia*, and then (Foslie 1904c: 8) into *Lithophyllum*, and then (Foslie 1908e: 4) returned without change in rank to *Melobesia*, and then (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*. Names on boxes not updated from *Melobesia* to *Heteroderma*, probably due to Foslie's death on 9.xi.1909]. **Lectotype: CO**, unnumbered (Chamberlain 1983: 437-438).

Batters; [United Kingdom]; [England], Plymouth, Cowsand Bay; 'paa snegler [= on snails]; 11.xi.1895; slide 319; [no other collection data]; [no pfa]; [Note: collection includes conceptacle bearing fragments in a small box rediscovered during the present study]; **TRH A16-1014**.

Batters; [United Kingdom]; [England], Plymouth, Dukes Rocks; [no habitat data]; 7.iv.1897; slides 321, 410; [no other collection data]; [no pfa]; [Note: box marked '*M. myriocarpa?* fide Batt. = *M. zonalis* (Cr.)'. Collection includes conceptacle bearing fragments in a small box rediscovered during the present study. Adey & Lebednik 1967: 37 mistakenly record the collection locality as 'Duker Rocks']; **TRH A16-1015**.

Batters; [United Kingdom]; [England], Plymouth, Queens Ground; collection depth: 3-5.5 fathoms; 7.iv.1897; one unnumbered slide; ex. coll. Batters; [no pfa]; [Note: box marked '*Melobesia callithamnioides* fide Batters = *M. zonalis* Cr.'. Collection includes small box rediscovered during present study with specimens growing on glass]; **TRH A16-1016**.

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'paa akvarieglas [= on aquarium glass]'; 1906; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection includes a note written by Sauvageau and imprinted 'Université de Paris, Laboratoire Arago a Banyuls sur Mer (Pyr. - Orientales)']; **TRH A16-1017**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; two unnumbered slides; ex Herb. Crouan [and then ex] Herb. Mus. Paris [PC]; [no pfa]; [Note: collection consists only of two prepared slides, one marked '*Hapalidium zonale*' and the other marked '*Melobesia myriocarpa* = *M. zonalis*'. Some further information on these specimens is provided by Foslie (1900b: 3-4)]; **TRH A16-1018**.

Litholepis sp.

Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; 'paa [= on] *Goniolithon strictum*'; 6.xii.1907; slides 1688, 1709-1710; [Howe collection number] 5371; [no pfa]; [Note: box marked 'N.Y.G.B. 5371' and '*Litholepis* sp.? (præp. [= slide] 1710) og [= and] *Lithoph.* sp.? (præp. [= slide] 1688) (*L. pachydermum* partim? [= in part?])'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on collection in box]; **TRH A16-1019**

Case A, Drawer 17

During the present study, a number of pages of sheets containing information on cell, spore or conceptacle dimensions for various collections were found. These have been placed in an envelope marked 'Loose sheets found in Drawer A17'. A packet marked '*Melobesia coralli-*

nae, pl, 2, fig. 25, pl 3, fig 21-24' that could not be linked to any collection in A17 has been placed in a new envelope marked 'Glass negatives and photos of figures of *Melobesia coralinae* originally published in Solms-Laubach 1881'. In addition, a sheet labelled *Acanthopeltis japonica* but with a specimen of *Padina arborescens* (?) attached was found with specimens A17-1020 & A17-1021. This specimen has been placed in a separate envelope but not numbered because the coralline present on *Padina* has not been identified and confusion attends the identification of the host. Finally, Foslie's label for the original Drawer A17 was found amongst the collections. It has been placed in an envelope marked 'Label for the original wooden Drawer A17 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

canescens, Dermatolithon [originally described as *Melobesia canescens* (Foslie 1900h: 6) but subsequently (Foslie 1905c: 127) transferred without change in rank into *Lithophyllum* and then (Foslie 1909b: 58) into *Dermatolithon*. Names on boxes/packets not updated to *Dermatolithon* probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, A17-1023 (see below).

[Yendo]; Japan; Province of Mikawa; [no habitat data]; 14.x.1898; [no slides]; [no other collection data]; [no pfa]; [Note: sheet marked 'Prov. Mikawa ell. [= or] Prov. of Shima?'. No species name is on the sheet, but it was filed with other collections of *M. canescens*]; **TRH A17-1020.**

Yendo; Japan; [Province of] Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: specimen labelled '*L. canescens* ialf. delvis [= at least partly]' and 'maaske ogsaa [= maybe also] Abu, Awa' (another locality)]; **TRH A17-1021.**

Yendo; Japan; Pacific coast of middle Japan, Prov. of Sagami, at the Marine Laboratory; 'paa [= on] *Padina arborescens*'; 1899; slide 867; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 3; [Note: **Holotype** of *Melobesia canescens* Foslie. Additional data — Woelkerling 1993: 47. Box marked '*L. M. canescens*'. Small original box inside larger original box contains fragments and is numbered '867' and marked 'sp. konc. foto. [= sporangial conceptacles photographed]'. Slide is numbered '867' but original box is incorrectly marked 'præp. [= slide] 687'. (Slide 687 is part of A6-301)]; **TRH A17-1023.**

Yendo; Japan; Prov. of Shima (iii.1902) ell. [= or] Prov. Mikawa (xii.1899); [no habitat data]; two dates given, iii.1902 and xii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. canescens* ialf. delvis [= at least partly]'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1022.**

Yendo; [Japan]; [no other locality data]; on *Padina arborescens*; iii.1902; [no slides]; ex herb. K. Yendo [dispersed amongst several institutions, according to Stafleu & Cowan 1988: 490]; [no pfa]; [Note: specimen labelled '*Melobesia canescens* Fosl.']; **TRH A17-1024.**

confervicolum, Melobesia [originally described as *Phyllactidium confervicolum* (Kützting 1843: 295), then (Areschoug 1852: 509) transferred without change in rank into *Hapalidium*, and then (Foslie 1900b: 6) into *Melobesia*. Names on packets not updated from *Hapalidium* to *Melobesia*]. **Holotype:** L, 941.156-120 (Woelkerling & Verheij 1995: 41).

De Toni & Levi; Italy; Venezia, at the beach; 'su una *Chaetomorpha* reietta dalle onde sulla spiaggia [= on a *Chaetomorpha* driven by the waves onto the beach']; xii. [no year]; [no slides]; *Phycotheca Italica*, specimen 15; [no pfa]; [Note: packet includes printed label from the exsiccata set. Foslie 1905c: 123 considers specimen to belong to *Lithophyllum pustulatum*, but packet not so marked. Collection listed in Adey & Lebednik 1967: 39 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1025.**

[De Toni & Levi]; Italy; Venezia; on *Chaetomorpha*; xii.1884; [no slides]; *Phycotheca Italica*, specimen 15, ex herb. De Toni [**NAP**, according to Stafleu & Mennega 1998: 240]; [no pfa]; [Note: packet lacks printed label. Foslie 1905c: 123 considers specimen to belong to

Lithophyllum pustulatum, but packet not so marked. Collection listed in Adey & Lebednik 1967: 39 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1026**.

corallinae, Melobesia. See listing below for *macrocarpum, Lithophyllum (f. corallinae)*.

cystoseirae, Melobesia [originally described as *Melobesia cystoseirae* (Hauck 1883a: 266), but subsequently (Heydrich 1897a: 47) transferred without change in rank into *Lithophyllum*, then (Foslie 1898b: 11) returned without change in rank to *Melobesia*, and then (Foslie 1904b: 63 and Foslie 1904d: 27) reduced to the rank of form and transferred into *Lithophyllum* as *L. papillosum* f. *cystoseirae*. Names on specimens not updated from *Melobesia cystoseirae* to *Lithophyllum papillosum* f. *cystoseirae*]. **Holotype: L**, 943.10-32 (Woelkerling & Verheij 1995: 45).

Debray; [Algeria]; Algier, St. Eugène; [no habitat data]; 20.xi.1892; [no slides]; Debray collection number 55; [no pfa]; [Note: collection includes fragments in a small box marked 'sp. konc. [= sporangial conceptacles]']; **TRH A17-1027**.

Hauck; [Italy]; Trieste; [no habitat data]; 1878 [but see Note]; [no slides]; ex herb. Bornet [PC]; [no pfa]; [Note: box marked 'Hauck ded. [= given by Hauck] 1878' and 'Melob. cystoseirae'. Collection and ded. date based on information in Lemoine 1912: LXI for the only collection of this taxon in the Bornet herbarium in PC. Date on outside of box looks like '1873'. Unsigned annotation slip in box is marked 'not type material, or impossible to link to type in L']; **TRH A17-1028**.

laminariae, Melobesia. See listing below for *macrocarpum, Lithophyllum (f. laminariae)*.

macrocarpum, Dermatolithon [originally described as *Melobesia macrocarpa* (Rosanoff 1866a: 74), then (Foslie 1898b: 11) transferred into *Dermatolithon*, reduced to rank of form and treated as *D. pustulatum* f. *macrocarpum*, then (Foslie 1900b: 14) re-elevated to species rank as *Dermatolithon macrocarpum*, then (Foslie 1904d: 29, footnote 1) transferred as a species into *Lithophyllum* (i.e. *L. macrocarpum*), then (Foslie 1905c: 117) again reduced to the rank of form as *Lithophyllum pustulatum* f. *macrocarpa*, then later in the same paper (Foslie 1905c: 128) re-elevated to species rank as *Lithophyllum macrocarpum*, then (Foslie 1909b: 47) treated as *Lithophyllum (Dermatolithon) macrocarpum*, and finally, later in the same paper (Foslie 1909b: 58), transferred the species back into *Dermatolithon* (as *D. macrocarpum*). Names appearing on each collection in Foslie's herbarium vary and are noted in individual listings]. **Lectotype: CHE**, Le Jolis Alg. Mar. Cherbourg no. 276 (Chamberlain 1986: 203).

Børgesen; Færøerne [= Faeroe Islands]; Glyversveien ved [= near] Thorshavn; 'paa [= on] *Gigartina*'; 4.vii.1895; [no slides]; Børgesen collection number 301; [no pfa]; [Note: packet marked 'L. (D.) pustul. f. macroc.']; **TRH A17-1030**.

Børgesen; Færøerne [= Faeroe Islands]; Sandø, Skopen; 'paa [= on] *Gigartina*'; 12.vi.1895; [no slides]; Børgesen collection number 82; [no pfa]; [Note: packet marked 'L. (D.) pustul. f. macroc.']; **TRH A17-1031**.

Børgesen; Færøerne [= Faeroe Islands]; Thorshavn; 'paa [= on] *Chondrus*'; 15.vi.1895; [no slides]; Børgesen collection number 102; [no pfa]; [Note: packet marked 'L. (D.) pustulatum f. macroc.' and 'sp. konc. foto [= sporangial conceptacles photographed]']; **TRH A17-1032**.

Børgesen; Færøerne [= Faeroe Islands]; Thorshavn, Sandegjærde; 'paa [= on] *Furcellaria*'; 27.vi.1895; [no slides]; Børgesen collection number 229; [no pfa]; [Note: box marked 'Derm. macr.']; **TRH A17-1033**.

Collins, F.S.; [United States]; [Massachusetts], Little Nahant; [no habitat data]; 27.x.1878; [no slides]; [no other collection data]; [no pfa]; [Note: collection marked 'Algæ Boreali-Americanæ' and 'Melobesia pustulata Lamour. f. macrocarpa']; **TRH A17-1034**.

- Collins, F.S.; United States; Massachusetts, Nahant; 'paa [= on] *Chondrus*'; 30.v.1900; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia pustulata* f. ~~macroc.~~ *macrocarp.* = *D. macroc.*?' and '*Melob. farin.* f. *borealis* utdaget [= taken out]' and 'Nahant arktisk [= arctic] flora']; **TRH A17-1035.**
- Collins, F.S.; United States; Rhode Island, Newport; [no habitat data]; v.1900; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*D. hap macroc.*' and '2 delte sp. [= 2-parted sporangia]' and '(carposp.? [= carposporangia?)]']; **TRH A17-1036.**
- Farlow; Amerika [= America] [meaning United States]; [Maine/New Hampshire], Isles of Shoals, 50 miles north of Boston; 'paa [= on] *Chondrus crispus*'; ix.1900; slide 575; [comm.] Farlow in lit. x.1900; [no pfa]; [Note: packet marked '*L. pustulatum* f. *macrocarpa*' and "'*M. pustul.*"?'. Adey & Lebednik 1967: 38 mistakenly place the Isles of Shoals in Massachusetts]; **TRH A17-1038.**
- Farlow; [United States]; Massachusetts, Gloucester; 'paa [= on] *Phyllophora*'; [no date]; [no slides]; [comm.] Farlow in lit. x.1900; [no pfa]; [Note: box marked '*M. macrocarpa* Farl. New Engl. Alg.'. Annotation slip in box marked 'Fragm. af ekspl. beskr. i [= fragments of specimens described in] Mar. Alg. New Engl. som [= as] *M. macrocarpa*, paa [= on] *Phyllophora brodiæi* (ikke [= not] *Chondrus*). W.G. Farlow in lit. /x.1900'. 'Mar. Alg New Engl.' [Farlow 1881]. The fragments are in a small box within the larger round box]; **TRH A17-1037.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Fucus*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*D. macroc.*'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1039.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Phyllophora*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '(*L. membran.*) og [= and] *Lith. (Derm.) macr.*'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1040.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Laminaria saccharina*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. (D.) macroc.* (s. med [= mixed with] *M. lejol.* f.?)'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1041.**
- [Foslie]; Irland [= Republic of Ireland]; Roundstone, the Beeches; 'paa [= on] *Furcellaria*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*D. macroc.* f. *macr.* ialf. delvis [= at least partly]' and '*M. pustulatum*' and '*M. farin.*?'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1042.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, the Beeches, Dogs – Gorteen Bay; 'paa [= on] *Cystoseira* i klph. [= in rock pools]'; 18.-20.iv.1899; slide 549; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. (Derm.) macrocarpum*' and 's. med [= mixed with] *Melobesia farinosa* f.?'. Slide dated '20.iv.1899'. Collection includes a small box marked '549' with one fragment. Annotation slip in box marked 'Irland, Roundstone, The Beeches – Dogs – Gorteen Bay og østenfor [= and east of] Gorteen Bay' and 'paa [= on] *Cystoseira* i klph. [= in rock pools]' and '*Melobesia* sp.' and 'Præp. 549 af ekspl. med store konc. [= slide 549 of specimen with large conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1043.**
- Foslie; [Norway]; Svinør; 'paa [= on] *Furcellaria*'; 18.viii.1885; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. (Dermatolithon) macrocarpum*' and 'paa [= on] *Furcellaria* (og *Lamin.* st. – men ej her! [= and *Lamin.* stipes – but not here!)]'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1044.**
- [Foslie]; [Norway]; Svinør; 'paa [= on] *Chondrus*'; 18.viii.1885; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia macr.*'. Foslie is surmised to be collector as his initials appear on another packet (A17-1044) from this locality and date. Collection not included in Adey & Lebednik 1967]; **TRH A17-1045.**
- Howe; [Canada]; Nova Scotia, Yarmouth, Cape Forchu; 'paa [= on] *Ahnfeltia plicata*'; 26.vi.1901; one slide marked with Howe collection number 404; [no other collection data]; [no pfa]; [Note: packet marked '*L. Dermatolithon macrocarpum*'. Slide marked 'New York

- Bot. Garden'. Annotation slip from Howe is marked 'North American Marine Algae'; **TRH A17-1046.**
- Jónsson; Færøerne [= Faeroe Islands]; Bordøvig; 'paa [= on] *Gigartina*'; 18.xi.1897; six slides all labelled Jónsson 284; [no other collection data]; [no pfa]; [Note: annotation slip with collection is marked 'Færøerne 18. xi.1897 Jónsson nr. 284'. Collection apparently not mentioned in Adey & Lebednik 1967: 38, but the Jónsson collection number is the same as that of the lectotype of *Dermatolithon macrocarpum* f. *faeroensis* (A17-1087)]; **TRH A17-1029.**
- Jónsson; Færøerne [= Faeroe Islands]; Svinø; 'paa [= on] *Furcellaria fastigiata*'; 1.xi.1897; [no slides]; Jónsson collection number 119, comm. Børgesen, det Foslie; [no pfa]; [Note: box marked '*Derm. pustul. macr.*' and 'småa konc. [= small conceptacles]'. Adey & Lebednik 1967: 38 mistakenly list 'Børgesen' as the collector]; **TRH A17-1048.**
- Jónsson; Færøerne [= Faeroe Islands]; Thorshavn; 'paa [= on] *Gigartina*'; 23.xi.1897; [no slides]; Jónsson collection number 353; [no pfa]; [Note: packet marked '*L. (D.) pustul. f. macroc.*' and 'afkalk. præp. 10% alk. 3% salp. [= decalcifying of slide, 10% alkaline, 3% saltpetre]', but no slide is present. Adey & Lebednik 1967: 38 mistakenly list 'Børgesen' as the collector]; **TRH A17-1049.**
- Jónsson; Island [= Iceland]; Eyrarbakki; on *Lam. hyp.*; 2.vi.1897; two unnumbered slides; [no other collection data]; [no pfa]; [Note: grouped with a collection of *D. macrocarpum* f. *laminariae* (A17-1112) under one entry in Adey & Lebednik 1897: 38]; **TRH A17-1050.**
- Jónsson; Island [= Iceland]; Westmannaeyar [= Vestmannaeyjar or Westman Islands]; on *Lam. Hyp. & Rh. palm.*; 17.v.1897; six slides marked with Jónsson collection number 223; Jónsson collection number 223; [no pfa]; [Note: annotation slip marked 'no. 223' and '17.v.1897' and 'paa [= on] *L. hyp.*' and 'Lyse stk. paa sprit [= bright piece in spirit]'. The same annotation slip includes data on Jónsson specimen 416 (see A17-1113). Collection not included in Adey & Lebednik 1967]; **TRH A17-1051.**
- Jónsson; Island [= Iceland]; Westmannaeyar [= Vestmannaeyjar or Westman Islands]; on *Gigartina*; 21.v.1897; [no slides]; Jónsson collection number 404; [no pfa]; [Note: grouped with a collection of f. *laminariae* (A17-1113) under one entry in Adey & Lebednik 1967: 38 who list 17-21.v.1897 as the collection date]; **TRH A17-1052.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola; collection depth: ca 18 metres; 7.vi.1895; [no slides]; box numbered '4a Brioni minor'; [no pfa]; [Note: box marked '*L. papillosum* f. *macrocarpum?*'. Annotation slip in box marked '7.vi.1895, 4a) c. 18 m.'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1055.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Punta Grosse; collection depth: 12-22 metres, 'paa [= on] *Cystoseira*'; 11.vi.1895; [no slides]; box numbered 4a; pfa: Foslie 1904d, pl. 3, fig. 16; [Note: box marked '*L. papillosum macrocarpum?*' and 'brudstk. [= fragments]'. Grouped with A17-1054 under one entry in Adey & Lebednik 1967: 38]; **TRH A17-1053.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Orsera, in front of Punta Tiolle (Mündung der [= mouth of the] Leme Canal); collection depth: 12-15 metres, 'paa [= on] *Cystoseira* og andre alger [= and other algae]'; 17.xii.1896; slide 620; box numbered 1; pfa: Foslie 1904d, pl. 3, fig. 17; [Note: box marked '*L. papillosum macrocarpum*'. Grouped with A17-1053 under one entry in Adey & Lebednik 1967: 38, who did not include correct locality data for this collection]; **TRH A17-1054.**
- Kylin; [Sweden]; Kristineberg; [no habitat data]; 8.viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. macr.*'. Packet also bears the number 2 in the upper left corner. Grouped with a collection of *Lithophyllum macrocarpum* f. *intermedia* (A17-1088) under one entry in Adey & Lebednik 1967: 38, who mistakenly list the collection locality as 'Kristianaberg']; **TRH A17-1057.**
- Penhallow; [United States]; Massachusetts, Woods Holl [now Woods Hole]; on *Ascophyllum nodosum*; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked

- '*Melobesia macr. Pustulata*' and 'common'. The collector's initials, D.P.P., occur after the date. A similar collection occurs under *Dermatolithon pustulatum* below]; **TRH A17-1071**. Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; 'paa [= on] *Cystoseira*'; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithophyllum (Dermatolithon) macrocarpum* forma' and '(tildels s. m. smaa sk. af *L. incr. (?)*) som udtaget [= partly mixed with small crust of *L. incr. (?)*, which is taken out]'. The material of *incrustans* is filed in Drawer A8 (A8-408). Grouped with two collections of '*Lithophyllum (Dermatolithon) macrocarpum* f. *intermedia*' (A17-1096, A17-1097) under one entry in Adey & Lebednik 1967: 38]; **TRH A17-1058**.
- Snyder; [United States]; California, La Jolla; on *Rhodymenia corallina*; [no date]; [no slides]; comm. F.S. Collins 1904; [no pfa]; [Note: packet marked '*Melobesia (pustulata)* f. *macrocarpa?*' and 'Skraastill. basalcell. ca. 25 μ lange. Ikke sect. sp. og konc. tem. lave – ca. 600 μ [= angular basal cells ca 25 μ long. Not sectioned sporangia and conceptacles fairly low – ca 600 μ]. Collection not included in Adey & Lebednik 1967]; **TRH A17-1059**.
- Wille; [Norway]; Lyngør; 'paa [= on] *Fucus vesiculosus*'; 5.viii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. macrocarpum*']; **TRH A17-1061**.
- [Anon.]; [France]; Cherbourg; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967 or possibly may have been grouped with A17-1063 under one entry]; **TRH A17-1062**.
- [Anon.]; [France]; Cherbourg, Rocheres des Flamands; 'sur [= on] *Phyllophora rubens*'; [19.iii.1863]; slide 574; *Algues marines de Cherbourg* number 276, ex Le Jolis and then ex herb. Bornet [PC]; [no pfa]; [Note: **Isolectotype** of *Melobesia macrocarpa* Rosanoff. Additional data — Woelkerling 1993: 140 and Woelkerling 1998c: 374. Collection includes one sheet (with printed label) and a box with fragments marked 'Et brudstk. [= one fragment] ex Le Jolis'. Date on printed label given as 'Mars [= March]'. Precise collection date taken from Chamberlain 1986. Adey & Lebednik 1967: 38 indicate that three duplicates occur, but only one is present (however, also see note for A17-1062)]; **TRH A17-1063**.
- [Anon.]; [France]; Le Croisic; 'sur [= on] *Phyllophora*'; 27.iii.1877; two unnumbered slides [one broken]; [no other collection data]; [no pfa]; [Note: collection consists only of two slides. The dates '27.iii.1877' and '28.iii.1877' both appear on the slides. Slides marked '*Melobesia*' and '*M. macr. cfr. brev. [= cf. letter]*'. Both slides also marked 'Gl. chr.' [meaning uncertain] and one slide marked 'dispores [= bispores]'. Bornet is the likely collector — see Lemoine 1912: LXIII]; **TRH A17-1064**.
- [Anon.]; [Norway]; Haugesund, Fæø [now Feøy]; 'paa [= on] *Chondrus crispus*, nederste vm. udsat sted [= lowest water mark, exposed place]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. (Derm.) pustulatum* f. *macrocarpa*']; **TRH A17-1065**.
- [Anon.]; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms, 'paa [= on] *Corallina*'; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. pustulatum macrocarpum* f.']; **TRH A17-1066**.
- [Anon.]; [Norway]; Langesund, Rongsfjord [now Rognsfjorden]; collection depth: ca 5 fathoms, 'paa [= on] *Furcellaria*'; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a glass tube. Annotation slip marked '*L. macroc. s. med* [= mixed with] *Lithoth. membr.*'. Collection apparently not included in Adey & Lebednik 1967: 37]; **TRH A17-1068**.
- [Anon.]; [Norway]; Langesund, Rongsfjord [now Rognsfjorden] ell. [= or] Fuglø [now Fugløya]; collection depth: ca 3 fathoms, 'paa [= on] *Chondrus*'; 11.-12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. macroc. (s. med* [= mixed with] *Melob. lejol.*)'. Adey & Lebednik 1967: 37 list only one collection from this locality & date, but two (A17-1169, A17-1170) are present]; **TRH A17-1069**.
- [Anon.]; [Norway]; Langesund, Rongsfjord [now Rognsfjorden] og [= and] Fuglø [now Fugløya]; collection depth: ca 3-6 fathoms, 'paa [= on] *Furcellaria*'; 11.-12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. macroc.*' and

'(s. med [= mixed with] *Lithoth. membr.*'). Adey & Lebednik 1967: 37 list only one collection from this locality and date, but two (A17-1169, A17-1170) are present]; **TRH A17-1070.**

[Anon.]; [Norway]; Lillesand; 'paa [= on] *Lam.* [= *Laminaria*']; iv.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia pustulata* f. *macroc.*' and 'ikke fundet sp. [= sporangia not found]']; **TRH A17-1067.**

[Anon.]; [Norway]; Frværn. [= Fredriksværn, in Larvik municipality]; 'paa [= on] *Phyll. rubens* og [= and] *membranif.*'; 3.-5.ix.1881; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia pustulata* *macr.*']; **TRH A17-1072.**

[Anon.]; [Norway]; Frværn. [= Fredriksværn, in Larvik municipality]; 'paa [= on] *Phylloph.*'; 5.ix.1881; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*M. macr.* og [= and] *Lith. membran.*' and also '*M. (pustulata?)*'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1073.**

macrocarpum, Lithophyllum (f. corallinae) [originally described as *Melobesia corallinae* (P.L. & H.M. Crouan 1867: 150). Subsequently (Heydrich 1897a: 47) transferred without change in rank into *Lithophyllum*, then (Foslie in Børgesen 1902: 402) into *Dermatolithon*, then (Foslie 1905c: 118) reduced to the rank of form and transferred into *Lithophyllum* as *L. pustulatum* f. *corallinae*, and then (Foslie 1909b: 47) transferred without change in rank from *L. pustulatum* to *L. macrocarpum* (i.e. *Lithophyllum (Dermatolithon) macrocarpum* f. *corallinae*). Later in the same paper, Foslie (1909b: 58) transferred the species *macrocarpum* back into *Dermatolithon* without mention of the form. Names on collections in Foslie's herbarium vary and are noted in individual listings. Collections listed in Adey & Lebednik 1967: 37-38 under species without mention of forma]. **Lectotype: CO**, unnumbered (Chamberlain 1991: 67).

Bornet; [France]; Le Croisic; [no habitat data]; 12.iv.1877; [no slides]; Herb. G. Thuret [**PC**], donné par Mr Ed. Bornet; [no pfa]; [Note: packet marked '*Melobesia corallinae* Crouan']; **TRH A17-1074.**

[Debray]; Algeria; St. Eugène; 'sur [= on] *Corallina mediterranea*'; vi.1887; [no slides]; collection number 118; [no pfa]; [Note: packet marked '*Melobesia pustulata*' and '*Melob. corallinae*' and 'sp. 2-delte [= sporangia 2-parted]'. Debray surmised as collector based on annotation on packet 110 (see A17-1127)]; **TRH A17-1083.**

Foslie; Irland [= Republic of Ireland]; Roundstone, Bertraghboy Bay; 'paa [= on] *Corallina officinalis* og [= and] *Lith. calcareum*', collection depth: 2 fathoms; 17.iv.1899; slide 548, five slides dated 17.iv.1899 and two slides dated 19.iv.1899; station 8; [no pfa]; [Note: box marked '*L. pustulatum* f. *corallinae*' and 'Stat. 8 (see A Visit to Roundst.)', referring to the Roundstone account of Foslie (1899a). The two slides dated '17.iv.1899' are also marked 'Stat. 8'. Slides dated '19.iv.1899' require checking to see if they are misplaced — the only Foslie Roundstone collection dated 19.iv.1899 is C24-3674, identified as *Phymatolithon polymorphum*]; **TRH A17-1075.**

Foslie; [Norway]; Haugesund, Fæø [now Feøy]; littoral region, 'nederste del udsat [= lowest part, exposed]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. (D.) pustulatum* f. *corallinae*']; **TRH A17-1076.**

Holmes; [United Kingdom]; [England], The Lizard; on *Corall. offic.*; vii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia corallinae* Crn' and stamped 'Herb. M. Foslie']; **TRH A17-1077.**

[Holmes]; [United Kingdom]; [England], Torquay, Meadfoot; growing on *Corallina officinalis*; iii.1883; [no slides]; [no other collection data]; [no pfa]; [Note: collector listed as 'EMH [= E.M. Holmes]' on packet. Collection not included in Adey & Lebednik 1967]; **TRH A17-1056.**

Jónsson; Færøerne [= Faeroe Islands]; Thorshavn; 'paa [= on] *Corallina officinalis*'; 20.xi.1897; slide 550; Jónsson collection number 313; [no pfa]; [Note: box marked '*L.*

pustulatum f. *corallinae*'. Grouped with A17-1079 under one entry in Adey & Lebednik 1967: 37]; **TRH A17-1078.**

Jónsson; Færøerne [= Faeroe Islands]; Thorshavn; 'paa [= on] *Corallina officinalis*'; 20.xi.1897; one slide marked '285 Bordøvig, 15.xi.1897'; Jónsson collection number 314; [no pfa]; [Note: box marked '*Derm. corallinae*'. Box also annotated '285 Bordøvig 15.xi.1897'. Box apparently contains a mixture of material from two localities and dates that no longer can be confidently separated into two distinct collections. Grouped with A17-1078 under one entry in Adey & Lebednik 1967: 37]; **TRH A17-1079.**

Snyder; [United States]; California, La Jolla; 'paa [= on] *Corallina*'; [no date]; [no slides]; comm. F.S. Collins 1904; [no pfa]; [Note: packet marked '*M. Lithoph. corallinae* Solms (= *L. pustul?*) f. *similis?*' and '*Melobesia*'. Adey & Lebednik 1967: 37 mistakenly list 'Collins' as the collector and '1904' as the collection date]; **TRH A17-1080.**

Solms [Laubach]; [Italy]; Ins. [= Isle of] Capri; 'ad litora [= in the littoral]', on *Corallina mediterranea*; iv.1879; [no slides]; [ex] Herbarium Weber-Van Bosse [L]; [no pfa]; [Note: packet marked '*Melob. corallinae* Solms'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1081.**

Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900; [no slides]; comm. Sauvageau; [no pfa]; [Note: packet marked '*M. corallinae*'. Grouped with a collection of f. *similis* (A17-1179) under one entry in Adey & Lebednik 1967: 37. Foslie never placed f. *similis* in *M. corallinae*]; **TRH A17-1082.**

[Anon.]; [Norway]; Hvaløerne, Skjærhalden, Storsanden [now Hvaler, Skjærhollen, Storesand]; 'opk. fj. [= washed ashore the tidal zone]'; 14.vi.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. (Derm.) pustulatum* f. *corallinae*']; **TRH A17-1084.**

[Anon.]; [Sweden]; Fiskebäckskil; [no habitat data]; [no date]; [no slides]; [ex herb] Areschoug [S]; [no pfa]; [Note: packet marked '*Melob. corallinae* Cr.' and 'Fbkil [= Fiskebäckskil]' [surmised from A15-981]. Collection not included in Adey & Lebednik 1967]; **TRH A17-1085.**

macrocarpum, Lithophyllum (f. crinita) [originally described as *Melobesia pustulata* f. *crinita* (Möbius 1892: 1441), then (Foslie 1900i: 21) transferred without change in rank into *Dermatolithon* (as *D. pustulatum* f. *crinita*), then (Foslie 1905c: 117, footnote 2) into *Lithophyllum* (as *L. pustulatum* f. *crinita*), and then (Foslie 1909b: 47) transferred in the rank of form from *L. pustulatum* to *L. macrocarpum* (i.e. *Lithophyllum (Dermatolithon) macrocarpum* f. *crinita*). Later in the same paper, Foslie (1909b: 58) transferred the species *macrocarpum* back into *Dermatolithon* without mention of the form. Collection listed in Adey & Lebednik 1967: 38 under species without mention of forma]. **Type:** not designated (Woelkerling 1993: 67). **TRH** has one syntype (A17-1086).

[Anon.]; Malta; [no other locality data]; 'paa [= on] *Cystoseira hoppii*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: **Syntype** of *Melobesia pustulata* f. *crinita* Möbius. Additional data — Woelkerling 1993:67. Box marked '*Melobesia pustulata* f. *crinita* Möb. = *D. macro.* f. *crinita* nær [= close to] *interm.* [= *intermedium*']. Box also marked 'NB. smaa & temm. unge skorper [= NB. small and rather young crusts]']; **TRH A17-1086.**

macrocarpum, Lithophyllum (f. faeroensis) [originally described as *Dermatolithon macrocarpum* f. *faeroensis* (Foslie 1900b: 15), then (Foslie 1905c: 120, 127), provisionally transferred in the rank of form from *L. macrocarpum* to *L. pustulatum* (i.e. *Lithophyllum (Dermatolithon) pustulatum* f. *faeroensis*), then later in the same paper (Foslie 1905c: 128) returned to *Dermatolithon macrocarpum* f. *faeroensis* and finally (Foslie 1909b: 47) transferred into *Lithophyllum*, as *L. macrocarpum* f. *faeroensis*. Later in the same paper, Foslie (1909b: 58) transferred the species *macrocarpum* back into *Dermatolithon* without

mention of the form. Collections listed in Adey & Lebednik 1967: 38 under species without mention of forma]. **Lectotype:** TRH, A17-1087 (see below).

Jónsson; Færøerne [= Faeroe Islands]; Bordøvig; [no habitat data]; 15.xi.1897; [no slides]; comm. F. Børgesen, number 281; [no pfa]; [Note: collection housed in a glass tube placed inside a newer brown box. Label with tube marked 'Færøerne Tveraa F. Børgesen og [= and] 281 Bordøvig. 15.ix.1897, H. Jónsson, *D. macr. f. faeroensis*.'. Grouped with A17-1087 under one entry in Adey & Lebednik 1967: 38, who mistakenly list 'Børgesen' as the collector]; **TRH A17-1047**.

Jónsson; Færøerne [= Faeroe Islands]; Bordøvig; [no habitat data]; 15.xi.1897; slide 552; Jónsson collection 284, comm. F. Børgesen, on '*Gig. mam.*'; [no pfa]; [Note: **Lectotype** of *Dermatolithon macrocarpum f. faeroensis* Foslie. Additional data — Chamberlain 1991: 26, and Woelkerling 1993: 89, who incorrectly included another Jónsson collection numbered 284 but dated 18.xi.1897 as part of the lectotype. The latter collection is A17-1029. Lectotype box marked '*L. macroc.*'. Grouped with A17-1047 under one entry in Adey & Lebednik 1967: 38, who mistakenly list 'Børgesen' as the collector]; **TRH A17-1087**.

macrocarpum, Lithophyllum (f. intermedium) [originally described as *Lithophyllum pustulatum f. intermedia* (Foslie 1905c: 117) but later in the same paper (Foslie 1905c: 128) transferred without change in rank from *L. pustulatum* to *L. macrocarpum* (i.e. *Lithophyllum macrocarpum f. intermedia*) and subsequently (Foslie 1909b: 47) listed as *Lithophyllum (Dermatolithon) macrocarpum f. intermedia*. Later in the same paper, Foslie (1909b: 58) transferred the species *macrocarpum* back into *Dermatolithon* without mention of the form). Names on collections in Foslie's herbarium vary and are noted in individual listings. Collections listed in Adey & Lebednik 1967: 37-38 under species without mention of forma]. **Lectotype:** C, Rosenvinge collection 4116 (Chamberlain 1991: 50, 53, 55).

Kylin; [Sweden]; Kristineberg; [no habitat data]; 27.viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. (Dermatolithon) macrocarpum f. intermedia* Foslie'. Packet also bears the number 1 in the upper left corner. Grouped with a collection of '*Lithoph. macr.*' (A17-1057) under one entry in Adey & Lebednik 1967: 38, who mistakenly list the collection locality as 'Kristianaberg']; **TRH A17-1088**.

Lagerheim; [Sweden]; Bohuslen, Väderø havn [= harbour]; 'paa grundt vatten, fastsittande paa *Fucus vesiculosus* [= in shallow water, stuck to *Fucus vesiculosus*']; viii.1882; [no slides]; ex herb. Kjellm. [**UPS**]; [no pfa]; [Note: box marked '*L. pustulatum f. intermedia*'. Habitat data on annotation slip in box. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia pustulatum*]; **TRH A17-1089**.

Rosenvinge; Denmark; Hirtsholm; 'paa [= on] *Fucus vesiculosus*'; 21.ix.1893; [no slides]; Rosenvinge collection number 4116; [no pfa]; [Note: **Isolectotype** of *Lithophyllum pustulatum f. intermedia* Foslie. Additional data — Chamberlain 1991: 53, 55, and Woelkerling 1993: 128. Box marked '*Lithoph. (Derm.) pustulatum f. intermedia*' and 'sp. 2-delte [= sporangia 2-parted]'. Listed under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38]; **TRH A17-1090**.

Rosenvinge; Denmark; Kalø Rev; 'paa [= on] *Fucus vesiculosus*'; 23.iv.1894; [no slides]; Rosenvinge collection number 4649; [no pfa]; [Note: packet marked '*L. pustulatum f. intermedia*' and 'konc. 300-400 μ ikke sp. [= conceptacles 300-400 μ no sporangia]'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1091**.

Rosenvinge; [Denmark]; Limfjorden, Oddesund; 'paa [= on] *Fucus vesiculosus*'; 24.viii.1893; [no slides]; Rosenvinge collection number 3858; [no pfa]; [Note: packet marked '*L. pustulatum f. intermedia*' and 'Algae mar. Danicae' and 'sp. 2-delte [= sporangia 2-parted]'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1092**.

Rosenvinge; [Denmark]; Limfjord, Sallingsund; [no habitat data]; 28.vi.1906; [no slides]; Bot. Mus. Kbhavn [C], nr. 8055 (Rosenvinge collection number); [no pfa]; [Note: box marked '*Lithoph. (Derm.) macroc. f. intermedia*' and '(Brudst. af ekspl. [= fragment of specimen])']. Adey & Lebednik 1967: 38 mistakenly place the collection locality in Sweden]; **TRH A17-1093.**

Rosenvinge; Denmark; Løgstør; 'paa [= on] *Fucus vesiculosus*'; 22.viii.1893; [no slides]; Rosenvinge collection number 3802; [no pfa]; [Note: packet marked '*L. (Derm.) pustulatum f. intermedia*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1094.**

Rosenvinge; Denmark; stenrev under [= stone reef below] Hanklitt, Thisted Bredning; 'paa [= on] *Fucus vesiculosus*'; 27.viii.1893; two slides, both labelled with Rosenvinge collection number 3913; Rosenvinge collection number 3913; [no pfa]; [Note: packet marked '*Lithoph. pustulatum f. intermedia*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1095.**

Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithophyllum (Dermatolithon) macrocarpum f. intermedia*'. Grouped with A17-1097 and a collection of *Lithoph. (Derm.) macrocarpum* forma (A17-1058) under one entry in Adey & Lebednik 1967: 38]; **TRH A17-1096.**

Sauvageau; [France]; Banyuls [-sur-Mer]; 'récolte à la main [= collected by hand], sur [= on] *Halimeda, Udotea, Padina* and *Codium bursa*'; 20.i.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. macro. f. intermedia*'. Grouped with A17-1096 and a collection of *Lithoph. (Derm.) macrocarpum* forma (A17-1058) under one entry in Adey & Lebednik 1967: 38]; **TRH A17-1097.**

[Anon.]; Denmark; stranden ved [= the shore by] Fredriksværk; 'paa [= on] *Fucus vesiculosus*'; 20.vii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. pustul. f. interm.*' and 'Kregonel' [meaning uncertain]. Listed under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38]; **TRH A17-1098.**

[Anon.]; [Norway]; Hvaløerne, Skjærhalden, Storsanden [now Hvaler, Skjærhollen, Storesand]; 'opk. fj. [= washed ashore the tidal zone]'; 14.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. (Derm.) pustulatum f. intermedia*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1099.**

macrocarpum, Lithophyllum (f. laminariae) [originally described as *Melobesia laminariae* (P.L. & H.M. Crouan 1867: 150), but subsequently (Foslie 1900b: 13) transferred without change in rank into *Dermatolithon*, then (Foslie 1900i: 22) reduced to the rank of form and treated as *Dermatolithon macrocarpum f. laminariae*, then (Foslie 1905c: 118) transferred at the rank of form from *Dermatolithon macrocarpum* into *Lithophyllum pustulatum* (i.e. *L. pustulatum f. laminariae*) and then later in the same paper (Foslie 1905c: 128) transferred in the rank of form from *Lithophyllum pustulatum* to *L. macrocarpum* (i.e. *L. macrocarpum f. laminariae*). Names on collections in Foslie's herbarium vary and are noted in individual listings. Collections listed in Adey & Lebednik 1967: 37-38 under species without mention of forma]. **Lectotype: CO**, unnumbered (Chamberlain 1991: 70, 73).

Batters; [United Kingdom]; [England], Berwick-upon-Tweed; [no habitat data]; iii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Choreonema Lam.*' and '*Lith. laminariae Batt herb. = Melob. lam. Cr.*'. Collection listed under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38]; **TRH A17-1100.**

Batters; [United Kingdom]; Scotland, Berwick [County]; [no habitat data]; iii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*M. laminariae*' and '*Lith. lam. Batt.?*'. Collection listed under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38]; **TRH A17-1101.**

- Boye; [Norway]; Sulen [now Sula] i [= in] Sogn; 'paa [= on] *Laminaria hyperborea*'; vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. laminariae*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum* where collector is mistakenly listed as 'Borge']; **TRH A17-1102.**
- Børgesen; Færøerne [= Faeroe Islands]; Østerø, Mølen ved [= at] Ejde; [no habitat data]; 23.v.1896; [no slides]; Børgesen collection number 707; [no pfa]; [Note: packet marked '*Melob. laminariae*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1103.**
- Børgesen; Færøerne [= Faeroe Islands]; Thorshavn; [no habitat data]; 26.iv.1898; slide 577 [missing]; Børgesen collection number 948; [no pfa]; [Note: packet marked '*M. laminariae*'. Grouped with A17-1105 under one entry in Adey & Lebednik 1967: 38 and listed there under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1104.**
- Børgesen; Færøerne [= Faeroe Islands]; Thorshavn; [no habitat data]; 7.vi.1898; [no slides]; Børgesen collection number 1171; [no pfa]; [Note: packet marked '*M. laminariae*'. Grouped with A17-1104 under one entry in Adey & Lebednik 1967: 38 and listed there under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1105.**
- Collins, F.S.; United States; Massachusetts, Nahant; 'on the roots of *Laminaria digitata*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. pustul. f. laminariae*' and '*M. pustulata = D. macr.?*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1106.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Laminaria* st. [= stipe]'; 16.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*D. laminariae* (og [= and] *L. crouanii*)'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1107.**
- Foslie; [Norway]; Frøjen [now Frøya]; 'paa [= on] *Laminaria hyperborea* (og [= and] *digitata?*)'; 11.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*M. Lithoph. (Derm.) pustulatum f. laminariae*' and 's. med [= mixed with] *L. crouanii* som udtaget [= which is taken out]'. Collection containing *Lithophyllum crouanii* is filed in Drawer A2 (A2-83). Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1108.**
- Foslie; [Norway]; Kristiansund; 'paa [= on] *Lamin. hyperborea*'; 9.viii.1898; slide 66; [no other collection data]; [no pfa]; [Note: box marked '*M. laminariae* og et par smaa [= and a couple of small] *L. crouanii*'. Collection includes a fragment in a small box marked 'præp. [= slide] 66'. Grouped with A17-1110 under one entry under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38]; **TRH A17-1109.**
- Foslie; [Norway]; Kristiansund; 'paa [= on] *Lamin. st. [= stipe]*'; 9.viii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. laminariae*' and '(s. med [= mixed with] *L. crouanii*)'. Grouped with A17-1109 under one entry under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38]; **TRH A17-1110.**
- Jónsson; Færøerne [= Faeroe Islands]; Kunø; [no habitat data]; 9.xi.1897; [no slides]; Jónsson collection number 241; [no pfa]; [Note: box marked '*D. macrocarp. f. laminariae*'. Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1111.**
- Jónsson; [Iceland]; Syd Island [= South Iceland], Eyrbakki; 'paa [= on] *Laminaria* st. [= stipe]'; 7.vii.1901; [no slides]; ex herb. Bot. Mus. Kbhavn [C], 21.v.1902; [no pfa]; [Note: box marked '*D. macrocarpum f. laminariae*'. Grouped with a collection of *D. macrocarpum* (A17-1050) under one entry in Adey & Lebednik 1897: 38]; **TRH A17-1112.**
- Jónsson; Island [= Iceland]; Westmannaeyar [= Vestmannaeyjar or Westman Islands]; 'paa [= on] *Laminaria hyperborea*'; 22.v.1897; seven slides labelled with Jónsson collection numbered 416; Jónsson collection number 416; [no pfa]; [Note: collection consists only of the seven slides. One slide labelled '*Lithoph. (Derm.) pustulatum macroc. f. laminariae*'. Annotation slip filed with A17-1051 includes data on that collection and the following information on A17-1113: 'no. 416' and '22.v.1897' and 'paa [= on] *L. hyp.*' and 'Mørke stk. paa sprit [= dark piece in spirit]'. Grouped with A17-1114 under one entry in Adey & Le-

- bednik 1967: 38 who make no mention of the slides and list '17.-21.v.1897' as the collection date]; **TRH A17-1113.**
- [Le Jolis]; [France]; Cherbourg; 'sur le. stipe du [= on the stipe of] *Laminaria cloustoni*'; 15.x.1880; [no slides]; Herb A. Le Jolis [**CHE**], collection number 2332; [no pfa]; [Note: packet marked '*Melobesia laminariae*'. Grouped with three Le Jolis collections numbered 2356 (A17-1116 — A17-1118), one Le Jolis specimen numbered 255 (A17-1119), and one unnumbered Le Jolis collection (A17-1120) as one entry under *Melobesia* (*Dermatolithon*) *pustulatum* in Adey & Lebednik 1967: 39]; **TRH A17-1115.**
- [Le Jolis]; [France]; Cherbourg; [no habitat data]; 26.x.1881; [no slides]; Herb A. Le Jolis [**CHE**], collection number 2356; [no pfa]; [Note: sheet marked '*Melobesia laminariae*'. Grouped with two other Le Jolis collections numbered 2356 (A17-1117, A17-1118), one Le Jolis collection numbered 2332, (A17-1115), one Le Jolis specimen numbered 255 (A17-1119), and one unnumbered Le Jolis collection (A17-1120) as one entry under *Melobesia* (*Dermatolithon*) *pustulatum* in Adey & Lebednik 1967: 39]; **TRH A17-1116.**
- [Le Jolis]; [France]; Cherbourg; [no habitat data]; 26.x.1881; [no slides]; Herb A. Le Jolis [**CHE**], collection number 2356; [no pfa]; [Note: packet marked '*Melobesia laminariae*'. Grouped with two other Le Jolis collections numbered 2356 (A17-1116, A17-1118), one Le Jolis collection numbered 2332 (A17-1115), one Le Jolis specimen numbered 255 (A17-1119), and one unnumbered Le Jolis collection (A17-1120) as one entry under *Melobesia* (*Dermatolithon*) *pustulatum* in Adey & Lebednik 1967: 39]; **TRH A17-1117.**
- [Le Jolis]; [France]; Cherbourg; [no habitat data]; 26.x.1881; [no slides]; Herb A. Le Jolis [**CHE**], collection number 2356; [no pfa]; [Note: packet marked '*Melobesia laminariae*'. Grouped with two other Le Jolis collections numbered 2356 (A17-1116, A17-1117), one Le Jolis collection numbered 2332 (A17-1115), one Le Jolis specimen numbered 255 (A17-1119), and one unnumbered Le Jolis collection (A17-1120) as one entry under *Melobesia* (*Dermatolithon*) *pustulatum* in Adey & Lebednik 1967: 39]; **TRH A17-1118.**
- [Le Jolis]; [France]; Cherbourg; 'sur [= on] *Laminaria cloustoni*'; October [no other date data]; [no slides]; Le Jolis — *Algues marines de Cherbourg*, number 255; [no pfa]; [Note: sheet with a printed label from the exsiccata with the name '*Melobesia laminariae*'. Grouped with three Le Jolis collections numbered 2356 (A17-1116 — A17-1118), one Le Jolis collection numbered 2332 (A17-1115), and one unnumbered Le Jolis collection (A17-1120) as one entry under *Melobesia* (*Dermatolithon*) *pustulatum* in Adey & Lebednik 1967: 39]; **TRH A17-1119.**
- [Le Jolis]; France; Cherbourg; 'paa [= on] *L. hyperborea* (*cloustoni*)'; 26.x.1881; [no slides]; Herb A. Le Jolis [**CHE**], collection number 2356; [no pfa]; [Note: packet marked '*Melobesia laminariae*' and 'koncept. [= conceptacles]'. Packet also marked 'præp. [= slide]' but no slide was found. Collection apparently not included in Adey & Lebednik 1967, who, however, mention (p. 39) three other Le Jolis collections numbered 2356 (A17-116 — A17-118)]; **TRH A17-1122.**
- Le Jolis; [France]; Cherbourg; [no habitat data]; 26.x.1881; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia laminariae*'. Grouped with three Le Jolis collections numbered 2356 (A17-1116 — A17-1118), one Le Jolis collection numbered 2332 (A17-1115), and one LeJolis specimen numbered 255 (A17-1119) as one entry under *Melobesia* (*Dermatolithon*) *pustulatum* in Adey & Lebednik 1967: 39]; **TRH A17-1120.**
- Ostenfeld; Grønland [= Greenland]; Holstensborg Fjords nordside [= north side of the fjord]; 'paa sandsynligvis barklaget af en raadden stilk af *Laminaria longicruris* if. Rosenvinge [= probably on outer layer of a rotten stalk of *Laminaria longicruris* according to Rosenvinge]'; 9.vii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. macroc. f. laminariae*'. The date 'xi.1905' is written at the bottom of the packet. Adey & Lebednik 1967: 38 mistakenly list the locality as 'Holsteinsberg'. Collected during Danish Ingolf Expedition 1895-1896 but not so indicated on box]; **TRH A17-1121.**
- [Anon.]; [Norway]; Finmarken [now Finnmark], Syltefjord; 'paa [= on] *Lamin. hyperborea*'; 22.vii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. laminariae* (s. m. [= mixed with] *L. crouanii*) udtaget [= taken out]'. The collection of *L. crouanii*

is in Drawer A2 (A2-81). Collection listed under *Melobesia (Dermatolithon) pustulatum* in Adey & Lebednik 1967: 38, who give the locality as Sultefjord]; **TRH A17-1123**.

[Anon.]; [Norway]; Tusteren [now Tustna]; 'paa [= on] *Laminaria hyperborea*'; 19.vii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Derm. laminariae*' and '(s. m. [= mixed with] *Lithoph. crouanii*) udt. [= taken out]'. The collection of *Lithophyllum crouanii* is in Drawer A2 (A2-87). Collection listed in Adey & Lebednik 1967: 38 under *Melobesia (Dermatolithon) pustulatum*]; **TRH A17-1124**.

pustulatum, Dermatolithon [originally described as *Melobesia pustulata* (Lamouroux 1816: 315), but subsequently (Nägeli 1858: 532) transferred without change in rank into *Titano-derma*, then (Foslie 1898b: 11) into *Dermatolithon*, then (Foslie 1904c: 8) into *Lithophyllum*, and finally (Foslie 1909b: 58) transferred back into *Dermatolithon*. Names on collections in Foslie's herbarium vary and are noted in individual listings]. **Lectotype: CN**, Lamouroux Herbarium, unnumbered (Woelkerling, Chamberlain & Silva 1985: 325).

Børgesen; Vestindien [= Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Christianssteds Havn [= the harbour of Christiansted]; 'paa [= on] *Udotea*'; 1905-1906; [no slides]; Børgesen collection number 1305; [no pfa]; [Note: packet marked '*Lithoph. (Derm.) pustulatum*' and '(Paa et af de to return. ekspl. ogsaa liden skorpe af *C. prototypum* [= on one of the two returned specimens also small crust of *C. prototypum*)]'. Packet also marked 'Cystoc.? [= cystocarpic?]; **TRH A17-1125**.

Collins, J. Franklin; United States; [New York], Block Island; 'paa [= on] *Ahnfeltia plicata*'; vii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Derm. pustulatum*']; **TRH A17-1126**.

[Debray]; [Algeria]; Algier, Bab-el-Oued; 'sur [= on] *Codium tomentosum*'; 14.ii.1888; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia pustulata* Lam.'. Debray surmised as collector based on annotation on packet 110 (see A17-1127). It is likely that this collection is the one Adey & Lebednik 1867: 39 list as '-----? 14.2.1888']; **TRH A17-1135**.

[Debray]; [Algeria]; Algier, Bab-el-Oued; [no habitat data]; 15.iv.1888; [no slides]; packet numbered 113; [no pfa]; [Note: packet marked '*Melobesia pustulata* Lam.'. Debray surmised as collector based on annotation on packet 110 (see A17-1127). Adey & Lebednik mistakenly give the collection date as '15.iv.1888' and list the collection locality as 'Bao aloued?']; **TRH A17-1130**.

[Debray]; [Algeria]; Algier, Bab-el-Oued; 'sur [= on] *Gymnogongrus norvegicus*'; 18.iv.1888; [no slides]; packet numbered 116; [no pfa]; [Note: packet marked '*Melobesia pustulata* Lam f. *austr.*?' and in pencil 'ikke unders. [= not examined]'. Debray surmised as collector based on annotation on packet 110 (see A17-1127). Adey & Lebednik list the collection locality as 'Bao aloued?']; **TRH A17-1128**.

Debray; [Algeria]; Algier, Bab-el-Oued; 'paa [= on] *Cystoseira*'; 6.v.1888; [no slides]; packet marked '(Debray nr. 110 (1899))'; [no pfa]; [Note: packet marked '*Melobesia pustulata* det Debr.'. Locality given as 'Bab el bued' on packet and as 'Bao aloued?' in Adey & Lebednik 1967: 39]; **TRH A17-1127**.

[Debray]; [Algeria]; Algier, Bab-el-Oued; [no habitat data]; 6.v.1888; [no slides]; packet numbered 114; [no pfa]; [Note: packet marked '*Melobesia pustulata* Lam.' and 'sp. 4 delte [= sporangia 4-parted]'. Debray surmised as collector based on annotation on packet 110 (see A17-1127). Adey & Lebednik list the collection locality as 'Bao aloued?']; **TRH A17-1129**.

[Debray]; Algeria; St. Eugène; [no habitat data]; 20.vi.1887; [no slides]; packet numbered 117; [no pfa]; [Note: packet marked '*Melobesia pustulata*'. Debray surmised as collector based on annotation on packet 110 (see A17-1127). Grouped with A17-1132 under one entry in Adey & Lebednik 1967: 39, who omit mention of 'Algeria']; **TRH A17-1131**.

[Debray]; Algeria; St. Eugène; [no habitat data]; vi.1895; [no slides]; packet numbered 112; [no pfa]; [Note: packet marked '*Melobesia pustulata* Lam.'. Debray surmised as collector

- based on annotation on packet 110 (see A17-1127). Grouped with A17-1131 under one entry in Adey & Lebednik 1967: 39, who omit mention of 'Algeria']; **TRH A17-1132.**
- Debray; [Algeria]; Algier, St. Eugène; 'paa [= on] *Cystoseira*'; xii.1891; [no slides]; Herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 18; pfa: Printz 1929, pl. 72, fig. 2; [Note: box marked '*Lithoph. sp.*' and '= *Lithothamn. (Lithoph.) pustulatum*' and 'Debr. 1-19'. Annotation slip in box also marked 'Debr. 1-19']; **TRH A17-1134.**
- [Debray]; Algeria; Sidi-Ferruch; 'sur [= on] *Gelidium cruciatum*'; 31.v.1888; [no slides]; packet numbered 111; [no pfa]; [Note: packet marked '*Melobesia pustulata*'. Debray surmised as collector based on annotation on packet 110 (see A17-1127). Collection not included in Adey & Lebednik 1967]; **TRH A17-1133.**
- Hariot; Fuegia [= Tierra del Fuego], [country uncertain]; [no other locality data]; on fronds of '*Callophyllis variegata*'; v.1883; slide 1643; [no other collection data]; [no pfa]; [Note: collection consists only of one slide. Annotation slip marked 'ekspl. return. v.1908 [= specimen returned v.1908]' and 'lidet steril ekspl. jfr. præp. 1643 [= small sterile specimen cf. slide 1643]'. It is uncertain whether Tierra del Fuego refers to Tierra del Fuego Island or the Tierra del Fuego Archipelago and whether the country location is Chile or Argentina]; **TRH A17-1136.**
- Howe; Bermuda; near Hamilton; on *Thalassia*; 13.vi.1900; one slide labelled with Howe collection number 80; [no other collection data]; [no pfa]; [Note: packet marked 'New York Bot. Garden' [**NY**] and '*Derm. L. pustulatum* og maaske ung [= and probably young] *Melob. farinosa*'. 'Bermuda Algae' printed on slip inside packet]; **TRH A17-1137.**
- Howe; Bermuda; Somerset, Eli's Harbor; on *Sargassum*; 26.vi.1900; [no slides]; [Howe collection number] 240; [no pfa]; [Note: packet marked 'New York Bot. Garden' [**NY**] and '*L. Derm. pustulatum* & *Melob. farinosa*'. 'Bermuda Algae' printed on slip inside packet]; **TRH A17-1138.**
- Howe; Bermuda; Spanish Point; on *Sargassum*; 21.vi.1900; [no slides]; New York Bot. Garden [**NY**] 164 [Howe collection number]; [no pfa]; [Note: packet marked 'New York Bot. Garden' [**NY**] and '*L. Derm. pustulatum*' and '*Melob. farinosa*'. 'Bermuda Algae' printed on slip inside packet. Grouped with A17-1140 and A17-1141 under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1139.**
- Howe; Bermuda; Spanish Point; on *Thalassia*; 21.vi.1900; [no slides]; [Howe collection number] 214; [no pfa]; [Note: packet marked 'New York Bot. Garden' [**NY**] and '*L. Derm. pustulatum*' and '*Melob. farinosa*?'. 'Bermuda Algae' printed on slip inside packet. Grouped with A17-1139 and A17-1141 under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1140.**
- Howe; Bermuda; Spanish Point; on *Halimeda tridens*; 21.vi.1900; [no slides]; [Howe collection number] 328; [no pfa]; [Note: packet marked 'New York Bot. Garden' [**NY**] and '*L. Derm. pustulatum*' and '*Melob. farinosa*?'. 'Bermuda Algae' printed on slip inside packet. Grouped together with A17-1139 and A17-1140 under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1141.**
- Howe; Jamaica; rocks below Fort Clarence, near Kingston; on *Gelidium*; 21.xii.1906; [no slides]; no. 4659 [Howe collection number]; [no pfa]; [Note: packet marked 'N.Y.B.G.' [**NY**] and '*Lithoph. (Derm.) pustulatum*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [**NY**] printed on slip inside packet]; **TRH A17-1142.**
- Howe; Jamaica; Palisadoes, Kingston Harbor; washed ashore; 18.xii.1906; [no slides]; [Howe collection numbers] 4486 & 4487, both on same packet]; [no pfa]; [Note: packet marked '*Lithoph. (Derm.) pustulatum* smaa konc. [= small conceptacles] & *Melob. farinosa*'. Annotation slips inside packet printed with 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [**NY**] and hand-written with 'no. 4486 *Lithophyllum pustulatum*' and 'no. 4487 *Melobesia farinosa* (?)']; **TRH A17-1143.**
- Howe; [United States]; Florida, Key West; on *Thalassia*; 31.x.1902; [no slides]; [Howe collection number] 1498; [no pfa]; [Note: packet marked 'New York Bot. Garden' [**NY**] and 'L

- Derm. pustulatum* & *Melob. farinosa* and 'delvis --- ogsaa *M. lejolisii* [= partly also with *M. lejolisii*']. 'New York Bot. Garden North American Marine Algae' printed on slip inside packet]; **TRH A17-1144.**
- Howe; [United States]; Florida, Virginia Key near Miami; on *Udotea conglutinata*, washed ashore; 22.iii.1904; [no slides]; [Howe collection number] 2802; [no pfa]; [Note: packet marked 'New York Bot. Garden' [NY] and '*Lithoph. (Derm.) pustulatum* og et par smaa skorper af [= and a couple of small crusts of] *Melob. farinosa* and '*L. pustul.* konc. 200?-250 μ indtil 300 μ [= *L. pustul.* conceptacles 200?-250 μ until 300 μ ']. 'New York Bot. Garden North American Marine Algae' printed on slip inside packet]; **TRH A17-1145.**
- Kuckuck; Marokko [= Morocco]; Tangier, Brim Castell; 'paa [= on] *Gigartina*'; 11.vi.1901; slide 789; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 1; [Note: box marked '*L. (D.) pustulatum*'. Collection includes fragments in a small box marked '*L. pustulatum* f. *typica*'. A note marked 'Mikr. snit ekspl. Tangier 11.6.01 [= microscopic cut of the specimen (from) Tangier 11.vi.1901]' found loose in Drawer A17 during this study has now been placed with this collection, the only collection in A17 with this date. Note also marked 'sp. konc. [= sporangial conceptacles]' and '*L. macroc.* tegn. afh. præp. [= drawing of thesis slide]']; **TRH A17-1146.**
- Nichols; [United States]; California, La Jolla; on *Laurencia paniculata*; vi.1907; one slide labelled with Nichols collection number 415 B2; Herbarium of M.B. Nichols [UC], number 415; [no pfa]; [Note: packet marked '*Melobesia*' without reference to species. Slide marked '*L. pustulatum?*'. Packet includes annotation slip with measurements of sporangia and conceptacles from slides of three collections (A17-1170, A17-1180, A17-1181). Collection listed in Adey & Lebednik 1967: 39 under *Melobesia (Dermatolithon) pustulatum* and grouped there with A17-1181 under one entry]; **TRH A17-1180.**
- Nichols; [United States]; California, La Jolla; on *Gelidium*; vi.1907; one slide labelled with Nichols collection number 417 A2; Herbarium of M.B. Nichols [UC], number 417; [no pfa]; [Note: packet marked '*Melobesia*' without reference to species but slide marked '*L. pustulatum?*'. Annotation slip with measurements of sporangia and conceptacles from slides of three collections (A17-1170, A17-1180, A17-1181) is in A17-1180. Grouped with A17-1180 under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1181.**
- Penhallow; [United States]; Massachusetts, Woods Holl [now Woods Hole]; on *Ascophyllum nodosum*; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*D. macroc.*' and '*Melobesia pustulata*' and 'common'. The collector's initials, D.P.P., occur after the data. A similar collection occurs under *Dermatolithon macrocarpum* above. Collection not included in Adey & Lebednik 1967]; **TRH A17-1165.**
- Rosenvinge; Denmark; mellem [= between] Slipshavn og [= and] Knudshoved; collection depth: 3 fathoms, 'paa [= on] *Zostera*'; 24.i.1894; [no slides]; Rosenvinge collection number 4214; [no pfa]; [Note: packet marked '[Ns]' and '*M. L. pustulatum* f.?'. '[Ns]' is a locality code used by Rosenvinge (see Rosenvinge 1909: 18-54)]; **TRH A17-1147.**
- Saunders; [United States]; California, probably Pacific Grove, near Monterey; on *Laurencia spectabilis*; [no date]; [no slides]; Herb. Farlow [FH], comm. Farlow 1907; [no pfa]; [Note: packet marked '*Lithoph. (Derm.) pustulatum* og [= and] *Lithoth. marginatum*'. Annotation slip in packet marked 'Her. W. G. Farlow. On *Laurencia spectabilis* California, Saunders'. Adey & Lebednik 1967: 39 mistakenly list 'Farlow' as the collector and '1907' as the collection date]; **TRH A17-1161.**
- Sauvageau; Spain; Port Lligot near Cape Creus; 'draguée a faible profondeur sur feuilles le *Posidonia caulini* [= dredged at a slight depth on leaves of *Posidonia caulini*]; 4.i.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. (Derm.) pustulatum* med. sp. [= with sporangia]' and '*Melob. farinosa* (med cystoc.? [= with cystocarps?])'. Adey & Lebednik 1967: 39 mistakenly list 'France' as the country of collection]; **TRH A17-1148.**
- Setchell; [United States]; Massachusetts, Woods Hole, Little Harbor; on *Ascophyllum*; 31.vii.1895; [no slides]; *Phyc. Bor. Amer.* no. 300 [= the exsiccata *Phycotheca Boreali-Americana*]; [no pfa]; [Note: packet marked '*Melob. pustulata* Lam.' and 'udt. af exsicc.

- ngt igjen. Ikke unders [= taken out of exsiccata, something left. Not examined] and 'with tetraspores'; **TRH A17-1149.**
- Weber-van Bosse; Sydafrika [= South Africa]; Natal, Isipingo; 'paa [= on] *Codium*'; 1893; slide 700; [no other collection data]; [no pfa]; [Note: box marked '*D. pustulatum* f.']; **TRH A17-1150.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; sublittoral, 'paa [= on] *Udotea desfontainii*'; 2.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melob. farinosa* og [= and] *Lithoph. pustulatum* f.'. Grouped with eight other collections (A17-1152 — A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1151.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved stationen [= by the station]; sublittoral 'paa [= on] *Corallina rubens*, *Cladophora prolifera*'; 9.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. pustulatum* f.'. Grouped with eight other collections (A17-1151, A17-1153 — A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1152.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved stationen [= by the station]; sublittoral, 'paa [= on] *Halopteris filicina*'; 9.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. pustulatum* fere [= nearly] f. ~~macrocarpa~~ *intermedia*'. Grouped with eight other collections (A17-1151, A17-1152, A17-1154 — A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1153.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; 'paa [= on] *Peyssonnelia rubra squamaria*?'; 9.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. pustulatum* f.' and annotated 's. med [= mixed with] *M. farinosa* f. *callith.*'. Grouped with eight other collections (A17-1151 — A17-1153, 1155 — A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1154.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved stationen [= by the station]; 'sublittoral, paa chitinrør af hydroide (blandt *Corallina* og *Cladoph. prolifera*) [= sublittoral, on chitin tubes of hydroids (among *Corallina* and *Cladoph. prolifera*)]; 9.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. pustulatum* (s. med [= mixed with] *M. farinosa* f. *callith.* i særsk. pakke [= in separate package]'. Grouped with eight other collections (A17-1151 — A17-1154, A17-1156 — A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1155.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], midt paa Canal di Leme [= middle of the Leme Canal] + 1 ekspl. [= specimen] from St. Catharina 25.iii.1903; sublittoral, 'paa [= on] *Anadyomene stellata*'; 11.iii.1903 and 25.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet contains a mixture of material from two dates and localities that no longer can be separated into distinct collections. Packet marked '*Lithoph. pustulatum* f. og delvis [= and partly] *Melob. farinosa*' and 'sp. 2 delte [= sporangia 2-parted]'. Grouped with eight other collections (A17-1151 — A17-1155, A17-1157, A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1156.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], by the railway station; littoral-sublittoral, 'paa [= on] *Halimeda tuna*'; 13.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. pustulatum* f. ("og delvis [= and partly] *Melob. farinosa*")'. Grouped with eight other collections (A17-1151 — A17-1156, A17-1158, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1157.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], canal at Leme; 'paa [= on] *Valonia utricularis*'; 23.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. pustulatum* forma (*intermedia*?)' and '2 delte sp. [= 2-parted sporangia]'. Grouped with eight other collections (A17-1151 — A17-1157, A17-1163) under one entry in Adey & Lebednik 1967: 39]; **TRH A17-1158.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], ved jernbanestationen [= by the railway station]; 'lit. - sublittoral [= littoral -sublittoral], paa [= on] *Cladostephus verticillatus*'; 15.iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoph. (Derm.) pustulatum* (Lamour) Fosl. fere [= nearly] f. *intermedia* Fosl.'.]

- Packet includes data on spore and cell dimensions. Grouped with eight other collections (A17-1151 — A17-1158) under one entry in Adey & Lebednik 1967: 39; **TRH A17-1163**. [Anon.]; [France]; (Seine Inférieure), Bruneval; on *Mastocarpus*; viii.1879; [no slides]; collection number 119; [no pfa]; [Note: packet marked '*Melobesia pustulatum?* og [= and] *macroc.? + L. corticiforme?*'. Collection not included in Adey & Lebednik 1967]; **TRH A17-1159**.
- [Anon.]; Norway; Lister [now Luster]; [on] *Lamin.*; [no date]; [no slides]; ex herb. Aresch. **[S]**; [no pfa]; [Note: packet marked '*Melob. pustulata?* and '*M. marc. og [= and] *crouanii?*' and 'af to forskj. ekspl. lille løse paaskr. *pustul.*, andet ikke, begge paa *Lam.* [= of two different specimens, small loose annotated *pustulatum*, the other not, both on *Laminaria*']]; **TRH A17-1168**.*
- [Anon.]; [Norway]; Sørviken [now Sørvika], Sørheien; [on] *Zostera*; 12.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. M. pustulatum?*' and 'Skraas-till. + langstr. celler tversn. ngl. delte i to. Konc. ca. 400 μ [= angular + long cells cross-section some parted in two. Conceptacles ca 400 μ ']]; **TRH A17-1160**.
- [Anon.]; [United States]; Florida, Key West; on *Halimeda*; [no date]; [no slides]; comm. F.S. Collins, 1904; [no pfa]; [Note: packet marked '*Lithoph. Derm. pustulatum & Melob. farinosa?*'. Adey & Lebednik 1967: 39 mistakenly list 'Collins' as the collector and '1904' as the collection date and do not distinguish between this and A17-1164]; **TRH A17-1162**.
- [Anon.]; [United States]; Florida, Key West; on *Laurencia*; [no date]; [no slides]; comm. F.S. Collins, 1904; [no pfa]; [Note: packet marked '*Melob. farinosa (& Derm. pustulatum) smaa skorper [= small crusts]*'. Adey & Lebednik 1967: 39 mistakenly list 'Collins' as the collector and '1904' as the collection date and do not distinguish between this and the preceding collection (A17-1162)]; **TRH A17-1164**.
- [Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; 31.iii.1888; [no slides]; [no other collection data]; [no pfa]; [Note: entry in Adey & Lebednik 1967: 39 reads '----? 14.2.1888, 31.3.1888 (2)'. The collection dated '14.ii.1888' is now entered above as A17-1135. The collection dated '31.iii.1888' has not been accounted for and no other collection in the Foslie herbarium has this collection date]; **TRH A17-1167**.

pustulatum, Lithophyllum (f. ascripticia) [originally described as *Lithophyllum pustulatum* f. *ascripticia* (Foslie 1907a: 34), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967 under species without mention of forma. Collections listed in Adey & Lebednik 1967: 38-39 under species without mention of forma]. **Holotype:** TRH, A17-1169 (see below).

- Gibbs; Amerika [= America] [meaning United States]; California, Monterey Bay; 'paa [= on] *Nitophyllum ruprechtianum?*'; 10.i.1899; [no slides]; [no other collection data]; [no pfa]; [Note: **Holotype** of *Lithophyllum pustulatum* f. *ascripticia* Foslie. Additional data — Woelkerling 1993: 31. Box marked '*M. pustulata?*' and '*Derm. pustulatum* f. *ascripticia* f. *australis?*'. Annotation slip from Gibbs is marked '#13']; **TRH A17-1169**.
- Nichols; [United States]; California, Santa Catalina Island, nordenfor [= north of] La Jolla; on *Gelidium*; vii.1907; two slides labelled with Nichols collection number 432 A3 and 432 B5; Herbarium of M.B. Nichols **[UC]**, number 432; [no pfa]; [Note: packet marked '*L. pustulatum* f. *ascripticia?*'. Annotation slip with measurements of sporangia and conceptacles from slides of three collections (A17-1170, A17-1180, A17-1181) is in A17-1180]; **TRH A17-1170**.
- Saunders; United States; California; on *N. ruprechtianum?*; [no date]; slide 1479; [comm.] Farlow, 1907, number 2; [no pfa]; [Note: packet marked '*Lithoph. pustulatum* f. *ascripticia?*'. Collection includes small box marked 'Farlow nr 2' and 'sp. konc. [= sporangial conceptacles]'. Most collection information is on annotation slip inside packet. Adey & Lebednik 1967: 39 mistakenly list 'Farlow' as the collector and '1907' as the collection date]; **TRH A17-1171**.

Snyder; [United States]; California, La Jolla; on *Dictyota binghamiana*; [no date]; [no slides]; comm. F.S. Collins 1904; [no pfa]; [Note: sheet marked '*M. pustulatum* f. (*australis*?) *ascripticia*?' and 'Phyc. Bor. Amer. Fasc. 27, nr 1350']; **TRH A17-1172.**

***pustulatum*, *Lithophyllum* (f. *australis*)** [originally described as *Lithophyllum pustulatum* f. *australis* (Foslie 1905c: 117) but later (Foslie 1909b: 46) considered to be a heterotypic synonym of *L. pustulatum* f. *pustulatum* (as f. *typica*). Names not updated on collections in Foslie herbarium, probably due to Foslie's death on 9.xi.1909. Collections listed in Adey & Lebednik 1967: 38-39 under species without mention of forma]. **Lectotype:** TRH, A17-1174 (see below).

Collins, F.S.; United States; Massachusetts, Cottage City; 'paa [= on] *Ahnfeltia plicata*'; ix.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Dermatolithon pustulatum* f. ~~*macrocarp.*~~ f. *australis*']; **TRH A17-1173.**

Houegger; Kanar. Øer [= Canary Islands]; Tenerife, Orotava; [no habitat data]; 1890; [no slides]; comm. F.S. Collins 1904; [no pfa]; [Note: **Lectotype** of *Lithophyllum pustulatum* f. *australis* Foslie. Additional data — Woelkerling 1993: 35. Packet marked '*L. pustul* f. *australis*'. Annotation slip inside packet is numbered 7317 and is marked 'Algæ canariensis. *Melobesia pustulata* Lam. Orotava, Tenerife: Leg. Julia Houegger, 1890.'. Adey & Lebednik 1967: 38 mistakenly list 'Collins' as the collector and '1904' as the collection date]; **TRH A17-1174.**

Pease & Butler; Jamaica; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. F.S. Collins 1900, packet A; [no pfa]; [Note: packet marked '*L. pustulatum* f. *australis* og [= and] *M. farinosa*'. Collection locality on packet given as 'Vestindien Jamaica'. Jamaica is part of the Greater Antilles, one of the three island groups comprising the West Indies, along with the Lesser Antilles and the Bahamas. Grouped with A17-1776 under one entry in Adey & Lebednik 1967: 39, who mistakenly list 'Collins' as the collector and '1900' as the collection date]; **TRH A17-1175.**

Pease & Butler; Jamaica; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. F.S. Collins 1900, packet B; [no pfa]; [Note: packet marked '*L. pustulatum* f. *australis* og [= and] *M. farinosa*?'. Collection locality on packet given as 'Vestindien Jamaica'. Jamaica is part of the Greater Antilles, one of the three island groups comprising the West Indies, along with the Lesser Antilles and the Bahamas. Grouped with A17-1175 under one entry in Adey & Lebednik 1967: 39, who mistakenly list 'Collins' as the collector and '1900' as the collection date]; **TRH A17-1176.**

pustulatum, *Lithophyllum* (f. *crinita*). See listing under ***macrocarpum*, *Lithophyllum* (f. *crinita*)** above

pustulatum, *Lithophyllum* (f. *intermedia*). See listing above for *macrocarpum*, *Lithophyllum* (f. *intermedia*)

***pustulatum*, *Lithophyllum* (f. *similis*)** [originally described as *Lithophyllum pustulatum* f. *similis* (Foslie 1909b: 47). Later in the same paper, Foslie (1909b: 58) transferred *Lithophyllum pustulatum* into *Dermatolithon* but without mention of the form *similis*. Collections listed in Adey & Lebednik 1967:37, 39 under *Lithophyllum pustulatum* or *Melobesia coralinae* without mention of forma]. **Lectotype:** TRH, A17-1178 (see below).

Farlow; [United States]; California; on *Corallina squamata*; 1900; [no slides]; Herb. Farlow [FH], number XV, comm. 1900; [no pfa]; [Note: **Lectotype** of *Lithophyllum pustulatum* f. *similis*. Additional data — Woelkerling 1993: 201. Box marked '*Melob. corallinae*: *L. pustul.* f. *similis*?'. Annotation slip in box marked '*Lithophyllum capense* Ros.']; **TRH A17-1178.**

Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900; [no slides]; comm. Sauvageau; [no pfa]; [Note: packet marked 'f. *similis?*' without reference to a genus or species. Annotation slip in box marked 'cfr. [= cf.] *corallinae*'. Grouped with a collection of *Melobesia corallinae* (A17-1082) under one entry in Adey & Lebednik 1967: 37. Foslie never placed f. *similis* in *M. corallinae*]; **TRH A17-1179**.

Case A, Drawer 18

During the present study, two loose notes pertaining to *Dermatolithon prototypum* were found in Drawer 18. These have been placed in an envelope labelled 'Loose notes found in Drawer A18 pertaining to specimens of *Dermatolithon prototypum* that occur mixed in collections of *Goniolithon propinquum* filed in Drawer A11'. Two loose photos of material of *Dermatolithon hapalidioides* in **PC** also were found in Drawer A18. These have been placed in an envelope labelled 'Loose photos of collections of *Dermatolithon hapalidioides* in **PC** that pertain to the following **TRH** collections: A18-1191, A18-1192, A18-1193, A18-1194, A18-1196'.

adplicitum, Lithothamnion [originally described as *Lithothamnion adplicitum* (Foslie 1897b: 17), but subsequently (Foslie 1900i: 22) transferred without change in rank into *Dermatolithon* and finally (Foslie 1905c: 128, 130) treated as a heterotypic synonym of *Lithophyllum hapalidioides* f. *confinis*. The type of *Lithothamnion adplicitum* was found with other collections of *Lithophyllum hapalidioides* f. *confinis* in Foslie's herbarium]. **Holotype:** **TRH**, A18-1183 (see below).

Batters; [United Kingdom]; England, Bognor; [no habitat data]; x.1887; slide 23; [no other collection data]; [no pfa]; [Note: **Holotype fragments** of *Lithothamnion adplicitum* Foslie. Additional data — Chamberlain 1991: 42 (**BM** part of holotype), and Woelkerling 1993: 18. Box marked '*L. adplicitum* Fosl. = *L. hapalidioides*'. Main part of holotype is at **BM** (algal box collection 573). Collection includes small box with coralline fragments. Collection listed in Adey & Lebednik 1967: 40 under *Lithophyllum (Dermatolithon) hapalidioides*]; **TRH A18-1183**.

confinis, Melobesia. See listing below for *hapalidioides*, *Lithophyllum* (f. *confinis*).

conspectum, Lithophyllum (Dermatolithon) [originally described as *Lithophyllum (Dermatolithon) conspectum* (Foslie 1907b: 29) but subsequently (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Name on box not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** **PC**, General Herbarium (Woelkerling 1998c: 307).

[Hariot]; Terre de Feu [= Tierra del Fuego], [country uncertain]; [no other locality data]; [no habitat data]; 1883; slide 671; number 52c Herb. Mus. Paris [**PC**]; pfa: Printz 1929, pl. 72, fig. 9; [Note: **HOLOTYPE FRAGMENTS** of *Lithophyllum conspectum* Foslie. Additional data — Campbell & Woelkerling 1990: 120, Woelkerling 1993: 63 and Woelkerling 1998c: 307. The main part of the holotype is in **PC**. **TRH** box marked '*Lithoth. schmitzii*, scr. Heydr. = *Lithoph. (Derm.) conspectum* Fosl. (og [= and] *Lithoth. magellanicum*)'. Slide marked '*Lithoth. schmitzii*, scr. Heydr. = *Lithoph. conspectum*'. It is uncertain whether Tierra del Fuego refers to Tierra del Fuego Island or the Tierra del Fuego Archipelago, and it also is uncertain whether the material was collected in Chile or Argentina]; **TRH A18-1184**.

dispar, *Lithophyllum* [originally described as *Lithophyllum (Dermatolithon) tumidulum* f. *dispar* (Foslie 1907b: 29) but subsequently (Foslie 1909b: 50) raised to species rank as *Lithophyllum dispar*, and then later in the same paper (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Names on boxes not updated from basionym, probably due to Foslie's death on 9.xi.1909]. **Lectotype: TRH**, A18-1186 (see below).

Gibbs; Amerika [= America] [meaning United States]; California, Bodega Bay; epiphytic; 1898; slide 1574; [no other collection data]; [no pfa]; [Note: box marked 'occurs epiphytic on *Gigartina*, *Gymnogongrus*, *Prionitis* and *Ahnfeltia*' and 'No. 2087 in the coll. of Setchell' and '= *Lithoph. tumidulum* Fosl. f. *dispar*'. Slide marked 'Gibbs nr. 2087']; **TRH A18-1185**.

Setchell & Gardner; Amerika [= America] [meaning United States]; Washington, west coast of Whidbey Island; cast ashore, on *Ahnfeltia concinna*; 28.vii.1901; slide 808; Algae of Puget Sound number 658; pfa: Printz 1929, pl. 72, fig. 14; [Note: **LECTOTYPE** of *Lithophyllum tumidulum* f. *dispar* Foslie. Additional data — Woelkerling 1993: 77. Box marked '*Lithoph. tumidulum* Fosl. f. *dispar*'. Box also marked with the number '186' (meaning uncertain). Slide marked 'comm. Setchell & Gardner']; **TRH A18-1186**.

hapalidioides, *Dermatolithon* [originally described as *Melobesia hapalidioides* (P.L. & H.M. Crouan 1867: 150) but subsequently (Hariot 1889: 84) transferred without change in rank into *Lithophyllum*, then (Foslie 1898b: 11) into *Dermatolithon*, then (Foslie 1905c: 128) without change in rank back into *Lithophyllum* and finally (Foslie 1909b: 58) transferred again without change in rank into *Dermatolithon*. Generic names on Foslie collections vary (noted in individual listings) and include the apparently unpublished name *Lithospora*]. **Lectotype: CO**, unnumbered (Chamberlain 1991: 36).

Batters; [United Kingdom]; England, Berwick [= Berwick-upon Tweed]; [no habitat data]; vii.1895; two unnumbered slides and two slides numbered 9; [no other collection data]; [no pfa]; [Note: box marked '*L. hapalidioides*' and '*L. squamulosum?*'. Box also marked 'Præp. [= slide] F--- [unreadable] 2' but no such numbered slide occurs with collection. Slides numbered 9 are marked '*M. hapalidioides* *L. papillosum*, England, Berwick, 7.1895.'. One unnumbered slide marked '*M. hapalid. L. squamul.?*, Berwick, 7.1895'. Other unnumbered slide marked '*M. hapalid. papill.*, Berwick, 7.1895'. Annotation slip in box marked '*L.-squamulos.?*'; **TRH A18-1187**.

Batters; [United Kingdom]; [England], Plymouth; [no habitat data]; iii.1889; slide 245; [no other collection data]; [no pfa]; [Note: box marked '*L. hapalidioides*'. Slide marked 'ex. Herb. Batters' [now in **BM**]. Grouped with A18-1189 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1188**.

Batters; [United Kingdom]; England, Plymouth; [no habitat data]; iii.1896; slide 22; [no other collection data]; [no pfa]; [Note: box marked '*L. hapalidioides*' and '*L. strömfeltii tenuiss.* Batt. Herb.'. Slide 22 marked '*L. adplicitum?* (*M. hapalidioides?*)'. Collection includes small box marked '22 Præp. [= slide] Anderss.'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Grouped with A18-1188 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1189**.

Bohlin; Acorerne [= Azores]; St. Miguel, Ponta Delgada; [no habitat data]; 20.vii.1898; slide 370; [no other collection data]; [no pfa]; [Note: box marked '*Derm. hapalidioides*'. Slide marked 'ex. Herb. Univ. St. holm [= Stockholm]'. Annotation slip in box marked 'overskaarne ekspl. præp. 370. Andet ekspl. ngt. tvilsomt (s. m. *L. incrust. vel ej L. papill.?*) [= the specimens which are cut up for slide 370. The other specimen is somewhat doubtful (mixed with *L. incrust.* hardly *L. papill.?*)']; **TRH A18-1190**.

Bornet; [France]; Loire Inférieure, Le Croisic; [no habitat data]; 12.v.1877; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 5; [Note: box marked '*Lithospora hapalidioides*' and '*Melobesia* _____ Cr.' and 'disporic'. Grouped with A18-1192, A18-1193 and A18-1194 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1191**.

- Bornet; [France]; Loire Inférieure, Le Croisic; [no habitat data]; 12.v.1877; slide 20; ex herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked '*Lithospora hapalidioides*' and '= *L. papillosum*'. Grouped with A18-1191, A18-1193 and A18-1194 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1192.**
- Bornet; [France]; Loire Inférieure, Le Croisic; [no habitat data]; 12.v.1877; [no slides]; ex herb. Bornet [PC]; [no pfa]; [Note: box marked '*Lithospora hapalidioides*' and '*Melobesia* _____ Cr.'. Grouped together with A18-1191, A18-1192 and A18-1194 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1193.**
- Bornet; [France]; Loire Inférieure, Le Croisic; [no habitat data]; 12.v.1877; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. papillosum hapalidioides*'. Grouped together with A18-1191, A18-1192 and A18-1193 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1194.**
- Chalon; [France]; Finistère, Roscoff; [no habitat data]; viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. hapalidioides*'; **TRH A18-1195.**
- Crouan; [France]; Rade de Brest; [no habitat data]; [no date]; slide 17; [ex] herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked '*Melobesia hapalidioides*'. Collection includes small box marked 'præp. [= slide] 17'. Slide 17 marked 'Herb. Thur. - Born.'. Grouped with a collection of *Dermatolithon hapalidioides* f. *confinis* (A18-1220) and a collection of *Melobesia simulans* (A18-1242) under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1196.**
- Debray; [France]; Cap Antifer; 'sur rochers à mi marée [= on rock at mid-tide]'; ii.1884; slide 318; Debray collection number 98; [no pfa]; [Note: box marked '*Melobesia confinis* Cr.' and '*M. hapalidi*'. Slide marked '*Dermatolithon hapalidioides* (Cr.) Fosl.']; **TRH A18-1197.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, Bertraghboy Bay; collection depth: ca 4 fathoms; 14.iv.1899; slide 329; 'Lok. 9 [= locality 9]'; pfa: Printz 1929, pl. 72, fig. 4; [Note: box marked '*L. hapalidioides*'. Grouped with A18-1199 and A18-1200 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1198.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa død [= on dead] *L. dentatum*'; 15.iv.1899; slide 472; 'Lok. 4 [= locality 4]'; [no pfa]; [Note: box marked '*Lithoph. hapalidioides*'. Slide marked '*D. hapalidioides*'. Grouped with A18-1198 and A18-1200 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1199.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; slide 536; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. hapalidioides* (og [= and] *Lithoth. sonderi*)'. Grouped with A18-1198 and A18-1199 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1200.**
- Hanna; Irland [= Republic of Ireland]; Fahy Bay, Ballinakill [= Ballynakill], Connemara; collection depth: 1-1.5 fathoms; 28.viii.1899; slide 328; [no other collection data]; [no pfa]; [Note: box marked '*L. hapalidioides*' but annotation slip in box marked '*L. macroc.*?']; **TRH A18-1201.**
- Kuckuck; Adriaterhavet [= Adriatic Sea], [country uncertain]; [no other locality data]; 'tildels paa [= partly on] *L. frutic.*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. papillosum hapalidioides*'; **TRH A18-1202.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Westlich nahe bei Eiland Gaza [= just west of Gaza Island]; collection depth: 25-30 metres; 11.vi.1895; slide 623; [no other collection data]; [no pfa]; [Note: box marked '*L. papillosum hapalidioides*'; **TRH A18-1203.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], Vor Bai Madonna [= outside Madonna Bay]; collection depth: 8-10 metres; 28.x.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. papillosum hapalidioides*'; **TRH A18-1204.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola, Östl. von [= east of] St. Andres; collection depth: 33 metres; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. papillosum hapalidioides* paa [= on] *L. fruticulosum* brudstk. [= fragment]']; **TRH A18-1205.**

- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Quieto, Vor Spitze [= outside point of] del Dente; collection depth: 15-23 metres; 14.xi.1899; slide 617; [no other collection data]; [no pfa]; [Note: box marked '*L. papillosum hapalidioides*' and 'Præp. 617 af brudstk. [= slide 617 of fragment]']; **TRH A18-1206.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln, nahe Bay Riff Cabula [= Brioni Islands, near Riff Cabula Bay]; collection depth: 20 – 35 metres; 7.vi.1895; slide 775; [no other collection data]; [no pfa]; [Note: collection consists only of one slide that originally was included by Foslie in the preceding collection (A18-1203) although different in locality and collection date. Slide 775 marked '*L. papillosum hapalidioides*'. Annotation on box for A18-1203 reads 'Præp. 775 af return. ekspl. [= slide 775 from returned specimen]']; **TRH A18-3819.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Orsera, zwischen [= between] Eiland Lunga [= Lunga Island] und [= and] Punta Petalon; collection depth: 18-22 metres; 17.xii.1896; slide 777; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. papillosum hapalidioides*']; **TRH A18-1207.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Vor der grotte von [= in front of the grotto of] St. Catarina; collection depth: 20-27 metres; 25.xi.1896; slide 611; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 6; [Note: box marked '*L. papillosum hapalidioides*' and 'sp. [= sporangia]']; **TRH A18-1208.**
- Kuckuck; [Lebanon]; Beirut; collection depth: 15-20 metres; 19.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Beirut (Phoenicia)' and '*Derm. hapalidioides*']; **TRH A18-1209.**
- Kuckuck; [Greece]; Østl. Mittelmeer [= the Eastern Mediterranean], Lesbos, Icragolf (Mytilene); collection depth: 7-15 metres; 16.iv.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Derm. hapalidioides*']; **TRH A18-1210.**
- Kuckuck; [Greece]; Rhodos; 'paa koral [= on coral]'; 24.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Derm. hapalidioides*' and 'Konc. paa ret. stk. [= conceptacles on returned piece]']; **TRH A18-1211.**
- Ostenfeld; Færøerne [= Faeroe Islands]; Syderø Kvanhauge; on *Patella*; 7.v.1895; slide 551; comm. Børgesen; [no pfa]; [Note: box marked '*Derm. hapal.*'. Adey & Lebednik 1967: 40 mistakenly list 'Børgesen' as the collector]; **TRH A18-1212.**
- Sauvageau; [France]; Finistère, Concarneau; 'paa [= on] *Vola maxima*'; iii.1900; slide 576; comm. Bornet; [no pfa]; [Note: box marked '*Lithoph. (Derm.) hapalidioides*'. Collection includes two small boxes with fragments of coralline material or scallop shells, one marked 'cyst.? [= cystocarpic?]' and the other marked '576'. Collection also includes two annotation slips, one marked 'comm. Sauvageau 1900' and the other marked '3.1900 leg. Sauvageau, comm. Bornet'. This suggests that Sauvageau sent the material to Bornet who then sent it to Foslie]; **TRH A18-1214.**
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; 'récolte a la main [= gathered by hand]'; 5.i.1907; slide 1333; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. papillosum hapalidioides*']; **TRH A18-1213.**
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900; [no slides]; comm. Sauvageau; [no pfa]; [Note: box marked '*D. hapalidioides* (delvis [= in part])']; **TRH A18-1215.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. papillosum hapalidioides*' and 'Ekspl. skjæl cystoc. [= specimen on shell cystocarpic]'. Grouped with A18-1217 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1216.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. papillosum hapalidioides*' and 'Sp. [= sporangia]'. Collection includes 4 specimens numbered 1-4 and notes with information on cell size and shape. Grouped with A18-1216 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1217.**

[Anon.]; [Norway]; Fredriksværn [in Larvik municipality], tvers af fyrlygten [= across from the beacon light]; collection depth: 7-10 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*D. hapalidioides*']; **TRH A18-1218.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. hapalidioides*' and 'Sc. & Art Mus. Dublin'] **[DBN]; TRH A18-1219.**

hapalidioides, Lithophyllum (f. confinis) [originally described as *Melobesia confinis* (P.L. & H.M. Crouan 1867: 150), but subsequently (Foslie 1900b: 12) transferred into *Dermatolithon* and reduced to the rank of form as *Dermatolithon hapalidioides f. confinis*, and then (Foslie 1905c: 128) transferred without change in rank into *Lithophyllum*, as *L. hapalidioides f. confinis*. Collections listed in Adey & Lebednik 1967: 40 under species without mention of forma. Names on Foslie specimens vary, as noted in individual listings]. **Lectotype: CO**, unnumbered (Chamberlain 1991: 50, Woelkerling 1998c: 369).

Crouan; [France]; Brest; [no habitat data]; [no date]; slide 411; ex herb. Crouan [dispersed amongst several institutions, according to Stafleu & Mennega 1997: 480]; [no pfa]; [Note: slide marked '*Dermatolithon hapalidioides f. confinis* (Crn) Fosl.' while box marked '*Melobesia confinis* Crouan' and 'Fl. Finist. p.150 [= Crouan & Crouan 1867]'. Grouped with a collection of *Melobesia hapalidioides* (A18-1196) and a collection of *Melobesia simulans* (A18-1242) under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1220.**

Holmes; [United Kingdom]; England, Yorkshire, Robin Hood Bay; [no habitat data]; 1901; slide 688; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 7; [Note: box marked '*L. (Derm.) hapalidioides f. confinis*'. Collection includes small box (marked '688') with fragments used to prepare slide 688. Foslie annotated the box cover to indicate that Yorkshire was on the north coast of England]; **TRH A18-1221.**

Le Jolis; [France]; Cherbourg; 'paa [= on] *Gelidium*'; 8.xi.1881; slide 412; [ex] Herb. Le Jolis **[CHE]**, number 2365; [no pfa]; [Note: collection comprises material on five sheets which are sub-numbered A18-1222a, A18-1222b, A18-1222c, A18-1222d, and A18-1222e to allow for individual citation of each sheet. Slide marked '*Dermatolithon hapalidioides f. confinis*' while sheets marked '*Melobesia confinis* Cr.'. Collection not included in Adey & Lebednik 1967]; **TRH A18-1222.**

Le Jolis; [France]; Cherbourg; [no habitat data on sheet but plants are epiphytic on *Gelidium*]; ?xi.? [day and year not given]; [no slides]; Le Jolis, *Algues marines de Cherbourg* number 275 [data from printed label]; [no pfa]; [Note: the binomial *Melobesia confinis* occurs on printed label. Collection not included in Adey & Lebednik 1967]; **TRH A18-1223.**

prototypum, Dermatolithon [originally described as *Lithothamnion prototypum* (Foslie 1897b: 18) but subsequently (Foslie 1898b: 11) transferred without change in rank into *Melobesia* (as *M. prototypus*), then (Foslie 1900i: 22) into *Dermatolithon* (as *D. prototypus*), then (Foslie 1905c: 129) into *Lithophyllum*, and finally (Foslie 1909b: 58) transferred back into *Dermatolithon* (as *D. prototypum*). Names on boxes not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype: TRH, A18-1226** (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; mell. Cruxbay og Store St Jan [= between Cruz Bay and Great St James] [see Note]; collection depth: 15 fathoms; 26.iii.1906; slide 1221; Børgesen collection number 2143; [no pfa]; [Note: locality data on box misleading – see Lemoine 1917: 169. Correct data given above in English. Grouped with A18-1225 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1224.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; 'in litore [= in littoral zone] paa [= on] *Pinna*'; 1892; slide 364; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 8; [Note: **Holotype** of *Lithothamnion prototy-*

pum Foslie. Additional data — Woelkerling & Campbell 1992: 67, 71, and Woelkerling 1993: 179. Collection includes small box (marked '364') with fragments used to prepare slide]; **TRH A18-1226.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix; 'paa [= on] *Udotea flabellata*'; 1906; [no slides]; Børgesen collection number 1439; [no pfa]; [Note: box marked '*Lithoph. (Derm.) prototypum* (+ smaa sk. [= small crusts] *Melob. farinosa*)'. Box cover also has some measurements of male, female, and sporangial conceptacles. Grouped with A18-1228 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1227.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Long Reef; [no habitat data]; 1905-1906; slide 1198; Børgesen collection number 1274; [no pfa]; [Note: collection consists of two round boxes housed in a newer box. One round box (rediscovered during the present study) is empty, has all original data (written by Foslie) crossed out and was incorrectly marked as type material with a thick orange line under the name (see Woelkerling 1993: 9). Other round box contains coralline material and has collection data written on lid in a more modern hand. Grouped with A18-1227 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1228.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Cruxbay [= Cruz Bay]; [no habitat data]; 1905-1906; slide 1217; [no other collection data]; [no pfa]; [Note: grouped with A18-1230 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1229.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor [= outside] Cruz Bay; [no habitat data]; 1905-1906; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with A18-1224 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1225.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan; 'paa stipes af [= on stipes of] *Avrainvillea sordida*'; 23.iii.1906; [no slides]; Børgesen collection number 2081; [no pfa]; [Note: grouped with A18-1229 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1230.**

Howe; Bahamas; Exuma Chain, Cave Cays; under a rock overhang at low water mark; 19.ii.1905; one slide marked with Howe collection number 4022; [no other collection data]; [no pfa]; [Note: 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip includes habitat data]; **TRH A18-1231.**

Howe; Jamaica; 8-11 miles east of Montego Bay; collection depth: 4 metres of water, on living coral; 12.i.1907; slide 1463; [Howe collection number] 5000; [no pfa]; [Note: box marked 'N.Y.B.G.' [NY]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Locality and habitat data also occur on slip]; **TRH A18-1232.**

Howe; Jamaica; Rackam's Cay near Kingston Harbor; on fragments of coral; 20.xii.1906; slide 1383; no. 4591 [Howe collection number]; [no pfa]; [Note: box marked 'N.Y.B.G.' [NY]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Locality and habitat data also occur on slip]; **TRH A18-1233.**

Howe; Puerto Rico; Culebra; [no habitat data]; 3.iii.1906; slide 1377; [Howe collection number] 4226b; [no pfa]; [Note: box marked 'N.Y.B.G.' [NY] and 'anth. konc.? [= antheridial conceptacles?]']. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Grouped with A18-1235, A18-1236, A18-1237 and A18-1238 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1234.**

Howe; Puerto Rico; on Island of Culebra; collection depth: 3 dm (decimetres) of water, on corals; 3.iii.1906; slide 1072; [Howe collection number] 4227; [no pfa]; [Note: box marked 'N.Y.B.G. Nr 4227' [NY]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Locality and habitat data also

on slip. Grouped with A18-1234, A18-1236, A18-1237 and A18-1238 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1235**.

Howe; Puerto Rico; on Island of Culebra; collection depth: 3 dm (decimetres) of water, on corals; 3.iii.1906; slide 1073; [Howe collection number] 4228; [no pfa]; [Note: box marked 'N.Y.B.G. 4228' **[NY]** and 'delvis overvokset af [= partly overgrowing by] Squamar. (*Peyssonnelia*)?'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip. in box. Locality and habitat data also on slip. Grouped with A18-1234, A18-1235, A18-1237 and A18-1238 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1236**.

Howe; Puerto Rico; on Island of Culebra; [no habitat data]; 7.iii.1906; slide 1087; [Howe collection number] 4374; [no pfa]; [Note: box marked 'N.Y.B.G. 4374' **[NY]**. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in box. Locality data also on slip. Grouped with A18-1234, A18-1235, A18-1236 and A18-1238 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1237**.

Howe; Puerto Rico; on Island of Culebra; on coral near low water mark; 7.iii.1906; slide 1090; [Howe collection number] 4377; [no pfa]; [Note: box marked 'N.Y.B.G. 4377' **[NY]**. Box and slide marked '*Lithoph. prototypum* og [= and] Squamariacea'. Annotation slip in box marked 'New York Botanical Garden, North American Marine Algae' printed on slip in box. Locality and habitat data also on slip. Grouped with A18-1234, A18-1235, A18-1236 and A18-1237 under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1238**.

Howe; Puerto Rico; San Juan, Santurce; on shell in lagoon; 22.v.1903; one slide marked with Howe collection number 2024b; [Howe collection numbers] 2024b + c, both pertaining to one collection; [no pfa]; [Note: box marked 'New York Botanical Garden' **[NY]**. Box annotated that specimen 'b' is *Lithophyllum prototypum* and 'c' is 'ubest. [= undetermined] *Goniol. sp.?*'. 'New York Botanical Garden, North American Marine Algae' printed on slip in box. Locality and habitat data and collection numbers also on slip]; **TRH A18-1239**.

[Anon.]; [United States]; Florida, Key West; [no habitat data]; [no date]; slide 25; ex herb. Farlow, comm. Bornet **[PC]**; [no pfa]; [Note: box marked '*L. hapalidioides prototypum* delvis [= in part] (og [= and] *L. pachydermum*)?'. Slide marked 'Herb. Born. – Thur.'. Adey & Lebednik 1967: 40 mistakenly list 'Farlow' as the collector]; **TRH A18-1240**.

rasile, *Lithophyllum (Dermatolithon)* [originally described as *Lithophyllum (Dermatolithon) rasile* (Foslie 1907a: 34) but subsequently (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Generic name on box not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** **TRH**, A18-1241 (see below).

[Anon.]; [Society Islands]; Tahiti, [no other locality data]; [no habitat data]; [no date]; slides 1444, 1473-1474; [ex] Mus. Paris **[PC]**, [comm.] Hariot iv.1907, number 25; pfa: Printz 1929, pl. 72, fig. 10; [Note: **Holotype** of *Lithophyllum rasile* Foslie. Additional data — Campbell & Woelkerling 1990: 119, Woelkerling 1993: 186, and Woelkerling 1998c: 323. Box marked '*Lithoph. (Derm.) rasile* (og [= and] *Litholepis accola* over [= over] *L. rasile* [sic.] og [= and] *Lithoph. sp.*') and [slide] '(1470 blandt [= among] *L. accola*)'. Slide 1470 is filed with *Litholepis accola* collection A16-989. Adey & Lebednik 1967: 40 mistakenly list 'Hariot' as the collector and 'iv.1907' as the collection date]; **TRH A18-1241**.

simulans, *Melobesia* [originally described as *Melobesia simulans* (P.L. & H.M. Crouan 1867: 150) but subsequently (Foslie 1900b: 12) treated as a heterotypic synonym of *Dermatolithon hapalidioides* and later (Foslie 1905c: 128) treated as a heterotypic synonym of *Lithophyllum hapalidioides* f. *confinis*. The collection below is labelled *Melobesia simulans* without reference to *hapalidioides*, but it was placed in the same drawer as other specimens of *hapalidioides*]. **Lectotype:** **CO**, unnumbered (Chamberlain 1991: 40).

Crouan; [France]; Brest; [no habitat data]; [no date]; [no slides]; ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*Melobesia simulans* Cr.']. Grouped with a collection of *Dermatolithon hapalidioides* f. *confinis* (A18-1220) and a collection of *Melobesia hapalidioides* (A18-1196) under one entry in Adey & Lebednik 1967: 40]; **TRH A18-1242**.

tumidulum, *Lithophyllum* [originally described as *Lithophyllum tumidulum* (Foslie 1901e: 5) but subsequently (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Names on boxes not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** **TRH**, A18-1243 (see below).

Yendo; Japan; Pacific coast of middle Japan, Izu Province, Shimoda; on *Gelidium*; 1899; slide 696; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 13; [Note: **Holotype** of *Lithophyllum tumidulum* Foslie. Additional data — Woelkerling 1993: 228. Box marked '*Lithoph. amplexifr. f. tumidula*']; **TRH A18-1243**.

[Anon.]; Japan; [no other locality data]; 'paa [= on] *Gelidium*'; [no date]; slide 1575; ex herb. Reinbold [dispersed amongst several institutions, according to Stafleu & Cowan 1983: 698], 1901; [no pfa]; [Note: box also marked '*Lithoph. amplexifrons. forma tumidula*'. Slide marked '(comm. Reinbold)']; **TRH A18-1244**.

tumidulum, *Lithophyllum* (f. *dispar*). See listing above for *dispar, Lithophyllum*.

Case A, Drawer 19

bermudense, *Lithophyllum* [originally described as *Lithophyllum bermudense* (Foslie & Howe 1906b: (132)) but subsequently (Foslie & Howe in Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Names on boxes not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** divided between **NY**, Howe collection 199, and **TRH** (A19-1245) (Woelkerling 1993: 38).

Howe; Bermuda; Spanish Point; encrusting a calcareous pebble and encrusting and enclosing a coquina pebble; 21.vi.1900; two slides labelled with Howe collection number 199; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 19 [incorrectly given as pl. 62 on box cover]; [Note: **Part of holotype** of *Lithophyllum bermudense* Foslie. Additional data — Campbell & Woelkerling 1990: 119-120, Woelkerling & Campbell 1992: 20, Woelkerling 1993: 38 and Woelkerling 1998c: 304. According to Foslie & Howe (1906b: (128)), part of the holotype is in **TRH** and part in **NY**. Box marked 'New York Bot. Garden' [**NY**]. Habitat data on two annotation slips in box. Annotation slips also are imprinted with 'Bermuda Algae collected in the Bermuda islands by Marshall A. Howe June 5 – July 7 1900'. One annotation slip further marked 'reddish when living'. Collection also includes a small box marked '157' [meaning of number uncertain]]; **TRH A19-1245**.

Howe; [United States]; Florida, Sands Key; on rocks, coral pebbles, etc., near low water mark; 30.iii.1904; one slide labelled 2920b [Howe collection number]; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' [**NY**]. Annotation slip in box marked with habitat data and imprinted with 'North American Marine Algae']; **TRH A19-1246**.

carpophylli, *Lithophyllum* [originally described as *Melobesia carpophylli* (Heydrich 1893: (78)) but subsequently (Heydrich 1897a: 52) transferred without change in rank into *Lithophyllum*, then (Foslie 1898b: 8) into *Goniolithon*, then (Foslie 1900i: 20) placed back into *Lithophyllum*, and finally (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Names on boxes not updated from *Lithophyllum* to *Dermatolithon*, proba-

bly due to Foslie's death on 9.xi.1909]. **Type:** not designated (Woelkerling 1993: 48). **TRH** has one syntype (A19-1248).

Schauinsland; Chatham Islands; [no other locality data]; [no habitat data]; [no date]; slides 298-299; comm. Reinbold xii.1898; pfa: Printz 1929, pl. 72, fig. 16; [Note: box marked '(og [= and] *Lithoth. chatamense*, hvoraf brudstk. & præp. 546 udt. [= of which fragments & slide 546 taken out)]'. Slide 546 belongs to the holotype of *Lithothamnion chatamense*, filed in Drawer B18 [B18-2594]. One annotation slip in box marked 'Chatham. "Kaiseraal", Itzehoe.'. Another annotation slip in box marked 'Præp. Andersss. 298 = lille æske, D^o-299 af store ekspl. [= slide Anders. 298 = small box, D^o-299 of large specimen]'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH A19-1247.**

[Anon.]; New Zealand; Bay of Islands; paa [= on] *Carpophyllum maschalocarpum*; [no date]; slide 300; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 15; [Note: **Syntype** of *Melobesia carpophylli* Heydrich. Additional data — Woelkerling 1993: 48. Collection includes small box marked 'Præp. Andersss. 300'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Slide 300 marked 'Ex herb. Heydrich' [original algal herbarium destroyed, according to Stafleu & Cowan 1979: 187]. Slide wrapped in a note marked '*L. carpophylli*, Præp. 299 og [= and] 300'. Slide 299 belongs to A19-1247 (above). Collection not included in Adey & Lebednik 1967]; **TRH A19-1248.**

papillosum, Lithophyllum [originally described as *Lithothamnion papillosum* (Zanardini ex Hauck 1883a: 272) but subsequently (Foslie 1898a: 5) transferred without change in rank into *Goniolithon*, then (Foslie 1900i: 20) into *Lithophyllum*, and then (Foslie 1909b: 58) into *Dermatolithon*. Names on boxes not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** L, 942.365-1 (Huvé 1962: 224, Woelkerling & Verheij 1995: 68).

Debray; [Algeria]; Algier [= Algiers]; [no habitat data]; [no date]; [no slides]; Debray collection number 20; [no pfa]; [no notes]; **TRH A19-1250.**

Debray; [Algeria]; Algier, Tipaza; [no habitat data]; 7.iv.1890; slide 5; Herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 11; [no pfa]; [Note: box marked 'Debr. 1-19'. One annotation slip in box marked with date and locality information. Another annotation slip marked 'ligner fuldst. Haucks ekspl. [= resembles Hauck's specimen completely]']; **TRH A19-1249.**

Debray; [Algeria]; Algier, Tipaza-Chenona; [no habitat data]; 25.v.1890; slide 4; Debray collection number 10; pfa: Printz 1929, pl. 72, fig. 12; [no notes]; **TRH A19-1251.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], zwischen [= between] Astorga und [= and] Due Sorelle; collection depth: 30-31 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. papillosum* (?)' and '(Ligner habituelt *Lenorm.* [= resembles *lenorm.* in habitat])']; **TRH A19-1252.**

[Anon.]; Adria [= Adriatic Sea] [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex K.K. Naturh. Hofmuseum Wien [**W**] 1909; pfa: Printz 1929, pl. 72, fig. 11; [Note: box cover marked '4 delte sp. [= 4-parted sporangia]'. Collection includes small box marked 'konc. [= conceptacles]']; **TRH A19-1253.**

[Anon.]; [Croatia]; [Adriatic Sea], Sansego [now Susak Island]; [no habitat data]; [no date]; one slide labelled Hauck nr. 108; Herb. Hauck [**L**], number 108; [no pfa]; [Note: collection consists only of one slide. Collection not included in Adey & Lebednik 1967]; **TRH A19-1254.**

polycephalum, Lithophyllum [originally described as *Lithophyllum polycephalum* (Foslie 1905e: 16) but subsequently (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Names on boxes not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** **TRH**, A19-1256 (see below).

Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; 'litoralreg. [= littoral region]'; xii.1904-ii.1905; slide 1017; [no other collection data]; pfa: Printz 1929, pl. 72, fig. 17; [Note: box marked '*Lithoph (Dermatolithon) polycephalum* (ung [= young])'. Annotation slip in box marked 'Algues marines des Canaries']; **TRH A19-1255.**

Vanhöffen; Cap Vertiske øer [= Cape Verde]; St. Vincent; [no habitat data]; ix.1901; slides 910-911; Gauss Expedition [= German South Polar Expedition 1901-1903]; pfa: Printz 1929, pl. 72, fig. 18; [Note: **Holotype** of *Lithophyllum polycephalum* Foslie. Additional data — Woelkerling 1993: 174, and Chamberlain 1996: 216. Annotation slip in box marked 'Præp. 910-911 *M. nær L. bermudense*, men konc. hos sidstn. mere lig s. hos *Lithoth.*, mens de hos 910-911 nærmer sig elliptisk form. — Maaske derfor ny art eller form av *papill. Papill.* vel egentl. en-laget basallag? [= slide 910-911. — *M.* close to *L. bermudense*, but conceptacles on the last named looks more like *Lithoth.*, while those on 910-911 have a more elliptical form. — Perhaps therefore new species or form of *papill. Papill.* have really one layer basal?']; **TRH A19-1256.**

polyclonum, Lithophyllum [originally described as *Lithophyllum polyclonum* (Foslie 1905e: 18) but subsequently (Foslie 1909b: 58) transferred without change in rank into *Dermatolithon*. Name on box not updated from *Lithophyllum* to *Dermatolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, A19-1257 (see below).

Krebs; Vestindien? [as used by Krebs = Danish West Indies, now the U.S. Virgin Islands?]; [no other locality data]; [no habitat data]; 1873; slides 956-957; ex Bot. Mus. Kbhavn [C] 1905; pfa: Printz 1929, pl. 72, fig. 21; [Note: **Holotype** of *Lithophyllum polyclonum* Foslie. Additional data — Woelkerling 1993: 175. Box marked '*f. typica*' and 'Fotogr. [= photographed]'. Collection includes one photograph. Photograph (which also includes a specimen from A19-1258) placed in separate envelope in Drawer A19]; **TRH A19-1257.**

polyclonum, Lithophyllum (f. flabelligera) [originally described as *Lithophyllum polyclonum* f. *flabelligera* (Foslie 1905e: 18). Subsequently (Foslie 1909b: 52) treated under that name, but form not formally transferred with species into *Dermatolithon* (Foslie 1909b: 58). Collection listed in Adey & Lebednik 1967: 41 under species without mention of forma]. **Holotype:** TRH, A19-1258 (see below).

Krebs; Vestindien [as used by Krebs = Danish West Indies, now the U.S. Virgin Islands]; [no other locality data]; [no habitat data]; 1873; slides 958-959; ex Bot. Mus. Kbhavn [C]; pfa: Printz 1929, pl. 72, fig. 20; [Note: **Holotype** of *Lithophyllum polyclonum* f. *flabelligera* Foslie. Additional data — Woelkerling 1993: 94. Box cover marked 'ca. halvd. af ekspl. [= about half of specimen]' and 'Fotogr. [= photographed]'. Collection includes two small boxes with fragments and a photograph. Photograph (which also includes a specimen from A19-1257) placed in separate envelope in Drawer A19]; **TRH A19-1258.**

Case A, Drawer 20

During the present study, a number of loose photographs were found in Drawer A20. These have been placed in an envelope marked 'Loose photographs found in Drawer A20 that could not be matched to particular specimens'.

affine, Lithophyllum. See listing below for *kotschyanum*, *Lithophyllum* (f. *affinis*)

affine, *Lithophyllum* (f. *tuberosa*) [originally described as *Lithothamnion affine* f. *tuberosa* (Foslie 1897b: 13) but subsequently (Foslie 1898b: 9) transferred without change in rank into *Lithophyllum*, as *L. affine* f. *tuberosa*. Collection listed in Adey & Lebednik 1967: 42 under *Lithophyllum kotschyianum* without mention of forma]. **Lectotype:** TRH, A20-1280 (see below).

Levander; [Eritrea]; Røde hav [= Red Sea], Massanah [= Massawa, but also see Note]; 'koralrev [= coral reef]'; 1894-1895; [no slides]; comm. Prof. F. Elfving; [no pfa]; [Note: **Lectotype** of *Lithothamnion affine* f. *tuberosa*. Additional data — Woelkerling 1993:228. Box marked '*L. kotschyianum* f. *affinis* Fosl.', but Foslie never associated f. *tuberosa* with either *Lithothamnion kotschyianum* or with *L. kotschyianum* f. *affinis* in publication. The locality name is given as Massanah on the box but as Massanah in the protologue (Foslie 1897b: 14). Grouped with the type of *Lithophyllum kotschyianum* f. *affinis* (A20-1279) and with two collections of *Lithophyllum kotschyianum* (A20-1265, A20-1266) as one entry under *Lithophyllum kotschyianum* in Adey & Lebednik 1967: 42, who also mistakenly list the collector as 'Elfving']; **TRH A20-1280.**

californiense, *Lithophyllum* [originally described as *Lithophyllum californiense* (Heydrich 1901a: 530) but subsequently (Foslie 1901d: 20) treated as a heterotypic synonym of *Lithophyllum pallescens*. The type of *L. californiense* was found with collections of *L. pallescens* in Foslie's herbarium]. **Holotype:** PC, General Herbarium (Woelkerling 1998c: 305).

Diguet; [Mexico]; [Gulf of] California; [no habitat data]; 1894; slide 664; ex Mus d'h. nat. Paris [**PC**]; [no pfa]; [Note: **Holotype fragment** of *Lithophyllum californiense* Heydrich. Additional data — Woelkerling 1993: 45 and Woelkerling 1998c: 305. Box marked '*Lithoph. californiense* Heydr. = *L. pallescens* Foslie' and 'Lith. in Mus. Paris' [the title of Heydrich 1901a (see References)] and 'cfr. [= cf.] Fosl. in Ber. Deutsch. Bot. Ges. 1901' [the title of Foslie 1901d (see Appendix 1)]. Listed under *Lithophyllum pallescens* in Adey & Lebednik 1967: 42]; **TRH A20-1295.**

kaiseri, *Lithothamnion* [originally described as *Lithothamnion kaiseri* (Heydrich 1897a: 64) but subsequently (Heydrich 1897c: 412) transferred without change in rank into *Lithophyllum*, then (Foslie 1898b: 9) reduced to the rank of form and treated as *Lithophyllum racemus* f. *kaiseri*, then (Foslie 1901d: 10, 1903c: 467) re-elevated to species rank as *Lithophyllum kaiseri*, and finally (Foslie 1909b: 34) treated as a heterotypic synonym of *Lithophyllum kotschyianum*. The type of *Lithothamnion kaiseri* was found with collections of *Lithophyllum kotschyianum* in Foslie's herbarium. With one exception (A20-1269), boxes with other specimens originally identified by Foslie as *kaiseri* were later re-labelled *kotschyianum* — see entries under *Lithophyllum kotschyianum* below. Foslie consistently used the orthographically incorrect spelling '*kaiserii*' on his collections and in publication]. **Type:** not designated (Woelkerling 1993: 132). **TRH** has one syntype (A20-1246).

[Kaiser]; [Egypt]; [Sinai], El Tor; [no habitat data]; [no date]; slides 6, 1150; Heydrich specimen number 60; pfa: Printz 1929, pl. 65, fig. 2; [Note: **Syntype** of *Lithothamnion kaiseri* Heydrich. Additional data — Woelkerling 1993: 132. Box marked '*L. kaiseri* = *L. kotschyianum* f. *typica*. Name of collector given by Heydrich (1897a: 64) in protologue. Foslie annotation slip in box marked 'Største ekspl. ej abs. sikkert hist maaske forb. fra anden æske [= largest specimen not confidently identified, probably exchanged with another box]'. Collection listed under *Lithophyllum kotschyianum* in Adey & Lebednik 1967: 42, who mistakenly record the collector as 'Heydrich']; **TRH A20-1264.**

Rechinger; Samoa; Ins. Upolu [= Upolu Island], Apia; [on] 'korallenriff [= coral reef]'; ix.1905; slide 1107; collection number 5117 delvis [= in part]; [no pfa]; [Note: box marked '*L. kaiserii* f.?' and '(2 arter [= 2 species])'. Foslie (1909b: 34) ultimately considered *L. kaiseri*

to be a heterotypic synonym of *L. kotschyianum*. Foslie changed the name from *kaiseri* to *kotschyianum* on most of his collections, including the type, but this one was not changed. Listed under *L. kaiseri* in Adey & Lebednik 1967: 41, who mistakenly list collector as 'Reichinger'; **TRH A20-1269**.

kotschyianum*, *Lithophyllum [originally described as *Lithophyllum kotschyianum* (Unger 1858: 22) and retained in that genus by Foslie]. **Holotype**: **TRH**, A20-1272 (see below).

Faurot; [Yemen]; Røde hav [= Red Sea], Kamarane [= Kamaran Island]; [no habitat data]; [no date]; slide 5; [ex] herb Bornet [**PC**]; [no pfa]; [Note: box marked '*L. racemus* fere [= nearly] f. *kaiseri* = *L. kotschyianum* næsten [= almost] f. *typica*'. Slide marked 'Røde hav [= Red Sea]' and 'Herb. Bornet']; **TRH A20-1267**.

[Gardiner]; Maldiverne [= Maldives Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 738; comm. Stanley Gardiner; pfa: Foslie 1903c, pl. 24 [mistakenly listed as pl. 1 on box], fig. 7; [Note: box marked '*L. kaiseri* *kotschyianum* forma'. Name of collector given in Foslie (1903c: 460). Grouped with A20-1260 and with collections of f. *madagascariensis* (A20-1284), f. *subplicatum* (A20-1285) and f. *subreduncum* (A20-1288) under one entry in Adey & Lebednik 1967: 41]; **TRH A20-1259**.

[Gardiner]; Maldiverne [= Maldives Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 755; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*L. kaiseri* *kotschyianum* f. *typica* f. *subplicata*'. Name of collector given in Foslie (1903c: 460). Grouped with A20-1259 and with collections of f. *madagascariensis* (A20-1284), f. *subplicatum* (A20-1285) and f. *subreduncum* (A20-1288) under one entry in Adey & Lebednik 1967: 41]; **TRH A20-1260**.

Gardiner; Seychellerne [= Seychelles Islands]; Praslin [Island]; reef; x.1905; slides 1270-1271; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. kaiseri* *kotschyianum* f. *typica*~*subredunca*']; **TRH A20-1261**.

Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slide 39; [no other collection data]; [no pfa]; [Note: box marked '*L. kotschyianum* forma (*typ. subred.*)'. Annotation slip in box marked 'cell. som hos *kaiseri* [= cells like *kaiseri*]']; **TRH A20-1262**.

Jadin; Réunion; [no other locality data]; [no habitat data]; iv.1890; slide 38; Jadin collection number 541; [no pfa]; [Note: box marked '*Lithoph. kaiseri* f. *kotschyianum*?' and 'Obs. cellerækker [= observed rows of cells]']; **TRH A20-1263**.

Kotschy; Persiske hav [= Persian Gulf] [country uncertain]; Bahrain Gulfen [= Gulf of Bahrain]; [no habitat data]; [no date]; slide 1720; [ex] K.K. Naturh. Hofmus. Wien [**W**]; pfa: Printz 1929, pl. 65, fig. 1; [Note: **Holotype** of *Lithophyllum kotschyianum* Unger. Additional data — Woelkerling 1993: 133, and Verheij 1994: 100. Box marked '*Lithoph. kotschyianum* Unger Leithakalk. p. 22 af Type-ekspl. [= of type specimen]'. Slide marked 'leg. Kotschy'. Adey & Lebednik 1967: 42 mistakenly list 'Unger' as the collector]; **TRH A20-1272**.

Levander; [Eritrea]; Røde hafet [= Red Sea], Massanah [now Massawa]; 'från koral. ref. [= from coral reef]'; 1894-1895; slide 683; [comm.] Prof. F. Elfving; pfa: Printz 1929, pl. 65, fig. 4; [Note: box marked '*L. crassum* phil. f. *typica* Fosl. *kotschyianum* f. *typica*'. Grouped with the type of *Lithophyllum affine* f. *tuberosa* (A20-1280), the type of *Lithothamnion affine* f. *affine* (A20-1279), and one collection of *Lithophyllum kotschyianum* (A20-1266) as one entry under *Lithophyllum kotschyianum* in Adey & Lebednik 1967: 42, who also mistakenly list the collector as 'Elfring']; **TRH A20-1265**.

Levander; [Eritrea]; Røde hav [= Red Sea], Massanah [a misspelling of Massanah, now Massawa]; littoral; 1894-1895; [no slides]; comm. Prof. F. Elfving; [no pfa]; [Note: box marked 'ung [= young] *L. affine*? = *L. kotschyianum*?'. Grouped with the type of *Lithophyllum affine* f. *tuberosa* (A20-1280), the type of *Lithothamnion affine* f. *affine* (A20-1279), and one collection of *Lithophyllum kotschyianum* (A20-1265) as one entry under *Lithophyllum kotschyianum* in Adey & Lebednik 1967: 42, who also mistakenly list the collector as 'Elfring']; **TRH A20-1266**.

Plate; [Egypt]; Røde hav [= Red Sea], Sinai, [Gulf of Suez], El Tor; [no habitat data]; [no date]; slide 820; Plate collection number 30, comm. Reinbold 1903; [no pfa]; [Note: box marked '*L. kaiserii kotschyanum* fere [= nearly] f. *typica*'. Grouped with a collection of *Lithophyllum kotschyanum* f. *subredunca* (A20-1290) under one entry in Adey & Lebednik 1967: 42 who mistakenly give Reinbold as the collector and 1903 as the collection date]; **TRH A20-1268.**

Schauinsland; Chatam-øerne [= Chatham Islands]; [no other locality data]; [no habitat data]; [no date]; slide 1372; comm. Reinbold, xii.1898, specimen A; [no pfa]; [Note: box marked '*Lithoph. affine-pallescens* (altern. cell delvis [= alternating cells in part]) *kotschyanum* næsten [= almost] f. *typica*'; **TRH A20-1270.**

Schimper; Chagos-øerne [= Chagos Archipelago]; Diego Garcia; [no habitat data]; 1898-1899; [no slides]; Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box marked '*Lithoph. kaiserii kotschyanum*']; **TRH A20-1271.**

[Anon.]; Cocos-Keeling Islands; (11.50'S 95.51'E), [no other locality data]; [no habitat data]; [no date]; slide 443; Eugenie Expedition; [no pfa]; [Note: box marked '*Lithoph. kotschyanum* f. *subplicata* f. *typica*']; **TRH A20-1273.**

[Anon.]; Isle of Rodriguez [= Rodrigues]; [no other locality data]; [no habitat data]; 1874; slide 333; Transit of Venus Exp. 1874 [= British Transit of Venus Expedition 1874-1875], [ex] Brit. Mus. [BM] 1899, number 3; [no pfa, but see Note]; [Note: slide marked '*Lithophyllum (racemus) kaiserii?*' and 'Indian Ocean'. Box marked '*(L. polymorph. Murray Seaw. Fig.)*', almost certainly a reference to Murray 1895, fig. 83. Adey & Lebednik 1967: 41 list the collection locality as 'Ile of Rodriques']; **TRH A20-1275.**

[Anon.]; Rodriguez? [= Rodrigues]; [no other locality data]; [no habitat data]; [no date]; slide 332; [ex] Brit. Mus. [BM] 1899, number 2; [no pfa]; [Note: box marked 'største lgd. 11 cm [= largest length 11 cm]'. Slide marked '*Lithophyllum (racemus?) kaiserii?*'. A photo labelled 'Brit. Mus. 1899 No. 2' is in an envelope labelled 'Loose photographs found in Drawer A20 that contain further information. Specimens in photos do not match those found in TRH collections'. Adey & Lebednik 1967: 41 list the collection locality as 'Ile of Rodriques' and the collection date as 1899]; **TRH A20-1274.**

[Anon.]; Selskapsøerne [= Society Islands]; Borabora; [no habitat data]; [no date]; slides 966-967; *Galathea* Expedition [1845-1847], ex Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*Lithoph. pallescens* f. *kotschyanum* f. mell. [= between] f. *subredunca* og [= and] f. *typica*' and 'Præp. [= slide] 967 af beholdte ekspl. [= of retained specimens]' and '= Præp. [= slide] 966 af return. ekspl. [= of returned specimen]' and '16° SB 150°W'. Collection includes two small boxes, one marked '= præp. [= slide] 966' and the other marked '= præp. [= slide] 967 af beholdte ekspl. [= of retained specimens]']; **TRH A20-1276.**

[Anon.]; [Society Islands]; Tahiti, [no other locality data]; [no habitat data]; [no date]; [no slides]; Mus. d'Hist. Nat. Paris [PC], comm. Hariot 1905 number 7; [no pfa]; [Note: box marked '*Lithoph. kaiserii* Heydr. *kotschyanum* f. *typica* vel [= at least] (*L. pallescens* Fosl. f. *kaiserii* (Heydr.) Fosl.?)'. Adey & Lebednik 1967: 41 mistakenly list 'Hariot' as the collector and '1905' as the collection date]; **TRH A20-1277.**

***kotschyanum*, *Lithophyllum* (f. *affinis*)** [originally described as *Lithothamnion affine* (Foslie 1897b: 13) but subsequently (Foslie 1898b: 9) transferred without change in rank into *Lithophyllum* and later (Foslie 1909b: 34) reduced to the rank of form and treated as *Lithophyllum kotschyanum* f. *affinis*. Collections listed in Adey & Lebednik 1967: 41-42 under *Lithophyllum kotschyanum* without mention of forma]. **Lectotype:** TRH, A20-1279 (see below).

Jousseume; [Djibouti]; Røde hav [= Red Sea], Gulf of Tadjoura, Djibuti-Obock; [no habitat data]; 1897; slide 12; comm. Bornet number 3 [PC]; pfa: Printz 1929, pl. 65, fig. 9; [Note: box marked '*Lithoph. affine kotschyanum* f. *affinis*' and '(mindste ekspl [= smallest specimen]'. Slide marked 'Herb. Bornet'. Annotation slip in box marked 'Det ene (mindste) [= the (smallest) one] f. *kaiserii?*']; **TRH A20-1278.**

Levander; [Eritrea]; Røde hav [= Red Sea], Massanah [now Massawa]; 'fra koralrev [= from coral reef]'; 1894-1895; slide 7; [comm.] Prof. F. Elfving; pfa: Printz 1929, pl. 65, fig. 10; [Note: **Lectotype** of *Lithothamnion affine* f. *affine* (syn. f. *complanata*). Additional data — Woelkerling 1993: 21. Box marked '*L. kotschymanum* f. *affinis* Fosl.'. Slide marked '*affine*'. Grouped with the type of *Lithophyllum affine* f. *tuberosa* (A20-1280) and two collections of *Lithophyllum kotschymanum* (A20-1265, A20-1266) as one entry under *Lithophyllum kotschymanum* in Adey & Lebednik 1967: 42, who also mistakenly list the collector as 'Elfring']; **TRH A20-1279**.

Schimper; Seychelles; Mahé; [no habitat data]; 1898-1899; slide 900; Tyske Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box marked '*Lithoph. kotschymanum* f. *affine*'. Slide marked '*Lithoph. affine* ung. [= young]'. The *Valdivia* is the expedition ship]; **TRH A20-1281**.

[Anon.]; [Sudan]; Røde hav [= Red Sea], Suakim [now Sawakin]; [no habitat data]; [no date]; slides 1552, 1554; comm. R.J. Harvey-Gibson 1907; [no pfa]; [Note: box marked '*Lithoph. affine*' without mention of *kotschymanum*. Box also marked 'Største nr. 2 – Præp. 1552 [= largest number 2 – Slide 1552]' and 'Mindste nr. 4 – Præp. 4 [= Smallest number 4 – Slide 1554]'. Adey & Lebednik 1967: 42 mistakenly list 'Gibson' as the collector]; **TRH A20-1282**.

***kotschymanum*, *Lithophyllum* (f. *madagascariensis*)** [originally described as *Lithophyllum madagascarense* (Heydrich 1902: 473) but subsequently (Foslie 1907e: 104) treated as a heterotypic synonym of *Lithophyllum kaiserii* f. *subplicatum* (as '*subplicata*') and later (Foslie 1909b: 34) resurrected as a distinct taxon in the rank of form and treated as *Lithophyllum kotschymanum* f. *madagascariensis*. As noted by Silva et al. (1996: 248-249), however, Foslie should have adopted the epithet *subplicatum*, which in the taxonomic rank of form has priority over *madagascarense*. Collections listed in Adey & Lebednik 1967: 41-42 under *Lithophyllum kotschymanum* without mention of forma]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 318).

Ferlus; Madagascar; Fort Dauphin; [no habitat data]; [no date]; slides 848-849; [ex] Mus. d'h. nat. Paris [**PC**]; pfa: Printz 1929, pl. 65, fig. 7; [Note: **Holotype fragments** of *Lithophyllum madagascarense* Heydrich. Additional data — Woelkerling 1993: 141 who mistakenly placed the material in *Lithothamnion* and referred to as holotype fragments as lectotype fragments, and Woelkerling 1998c: 318, figs 192-193. Box marked 'c. 25° S.B.' and 'Fotogr. [= photograph]'. Slide 849 marked 'Lgdsn. af kort gren [= longitudinal section of short branch]'. Listed under *Lithophyllum madagascarense* in Adey & Lebednik 1967: 42]; **TRH A20-1283**.

[Gardiner]; Maldiverne [= Maldives Islands]; Male Atoll, Hulule; [no habitat data]; iv. 1900; slide 739; comm. Stanley Gardiner; pfa: Foslie 1903c, pl. 24 [mistakenly listed as pl. 1 on box], fig. 6 [as *Lithophyllum kaiserii* f. *subplicata*], and Printz 1929, pl. 65, fig. 8; [Note: box marked '*L. kaiserii kotschymanum* f. *madagascariensis*'. Name of collector given in Foslie (1903c: 460). Slide 739 marked '*L. kaiserii* f.'. Grouped with two collections of *Lithophyllum kotschymanum* (f. *kotschymanum*) (A20-1259, A20-1260) and with collections of *Lithophyllum kotschymanum* f. *subplicatum* (A20-1285) and *Lithophyllum kotschymanum* f. *subreduncum* (A20-1288) under one entry in Adey & Lebednik 1967: 41]; **TRH A20-1284**.

***kotschymanum*, *Lithophyllum* (f. *subplicatum*)** [name based on *Lithophyllum okamurae* f. *subplicatum* Foslie 1901a: 18, as '*okamurai* f. *subplicata*'), but Foslie never formally transferred the f. *subplicatum* from *L. okamurae* to *L. kotschymanum* in publication although he used the name on two herbarium collections, including the type of *Lithophyllum okamurae* f. *subplicatum*. The formal transfer was first correctly made by P. Silva in Silva et al. (1996: 248). For additional information, see listing below for *Lithophyllum okamurae* f. *subplicatum*. Collections listed in Adey & Lebednik 1967: 41 under *Lithophyllum kotschymanum* without mention of forma]. **Lectotype: TRH**, A20-1286 (see below).

[Gardiner]; Maldiverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*L. kaiserii kotschyanum* næsten [= almost] f. *subplicata*'. Name of collector given in Foslie (1903c: 460). Grouped with two collections of *Lithophyllum kotschyanum* (f. *kotschyanum*) (A20-1259, A20-1260) and with collections of *Lithophyllum kotschyanum* f. *madagascarense* (A20-1284) and *Lithophyllum kotschyanum* f. *subreduncum* (A20-1288) under one entry in Adey & Lebednik 1967: 41]; **TRH A20-1285**.

[Anon.]; Samoa [= Samoa Islands]; [no other locality data]; [no habitat data]; [no date]; slide 596; ex herb. Bot. Mus. Hamburg [**HBG**]; pfa: Printz 1929, pl. 65, fig. 3; [Note: **Lectotype** of *Lithophyllum okamurai* f. *subplicata* Foslie. Additional data — Woelkerling 1993: 212. Box marked '*Lithoph. kotschyanum* (f. *subplicata*) f. *typica*' and 'Analyse nr. 23'. Slide marked '*L. kaiserii?* f. *subplicata* Fosl.'. Annotation slip in box marked 'Bot. Mus. Hamburg 1901, *L. okamurai-kaiserii* Heydr.? f.? *subplicata* Fosl. (nær [= close to] *L. kaiserii*)'. A photo labelled 'Samoa, Herb. Bot. Mus. Hamburg' is in an envelope labelled 'Loose photographs found in Drawer A20 that contain further information. Specimens in photos do not match those found in **TRH** collections'. Adey & Lebednik 1967: 41 mistakenly list the source of the collection as the 'Botanical Museum in Copenhagen'. The Samoa Islands include the nation of Samoa and American Samoa (a dependency of USA)]; **TRH A20-1286**.

***kotschyanum*, *Lithophyllum* (f. *subreduncum*)** [originally described as *Lithophyllum subreduncum* (Foslie 1901a: 10) but subsequently (Foslie 1909b: 34) reduced to the rank of form and treated as *Lithophyllum kotschyanum* f. *subreduncum* (as '*subredunca*'). Collections listed in Adey & Lebednik 1967: 41-42 under *Lithophyllum kotschyanum* without mention of forma]. **Holotype**: **TRH**, A20-1291 (see below).

[Gardiner]; Lakadiverne [= Laccadive] Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; 26.vii.1899; slides 760-761; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*L. kaiserii* f.? *kotschyanum* næsten [= almost] f. *subredunca*'. Slide 760 marked '*L. Kaiserii* f.?'. Slide 761 marked '*L. kaiserii* f.? (ung [= young])'. Name of collector given in Foslie (1903c: 460)]; **TRH A20-1287**.

[Gardiner]; Maldiverne [= Maldive Islands]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 737; comm. Stanley Gardiner; pfa: Foslie 1903c, pl. 1, fig. 5; [Note: box marked '*L. kaiserii kotschyanum* nær [= close to] f. *subredunca*'. Name of collector given in Foslie (1903c: 460). Slide 737 marked '*L. kaiserii*'. Grouped with two collections of *Lithophyllum kotschyanum* (f. *kotschyanum*) (A20-1259, A20-1260) and with collections of *Lithophyllum kotschyanum* f. *madagascarense* (A20-1284) and *Lithophyllum kotschyanum* f. *subplicatum* (A20-1285) under one entry in Adey & Lebednik 1967: 41]; **TRH A20-1288**.

Levander; [Eritrea]; Røde hav [= Red Sea], Assab; 'paa stranden [= on the beach]'; ii.1895; [no slides]; comm. Prof. F. Elfving; pfa: Printz 1929, pl. 65, fig. 11; [Note: annotation slip from Levander in box marked 'Mus. Zool. Helsingfors'. Adey & Lebednik 1967: 42 mistakenly list collector as 'Elfring' (= Elfving)]; **TRH A20-1289**.

Plate; [Egypt]; Sinai, Røde hav [= Red Sea], [Gulf of Suez], El Tor; [no habitat data]; [no date]; slide 819; Plate collection number 30, comm. Reinbold 1903; pfa: Printz 1929, pl. 65, fig. 13; [Note: box marked '*L. kaiserii kotschyanum* f. *subredunca*' and 'Analyse nr. 22' and 'Brudst. af fotogr. ekspl. i naturl. st. [= fragment for photography specimen in natural size]'. Grouped with a collection of *Lithophyllum kotschyanum* f. *typica* (A20-1268) under one entry in Adey & Lebednik 1967: 42 who mistakenly give 'Reinbold' as the collector and '1903' as the collection date]; **TRH A20-1290**.

[Anon.]; Sandwich Islands [now the State of Hawaii of the United States]; [no other locality data]; [no habitat data]; [no date]; slide 503; [ex] Herb. W.G. Farlow [**FH**], 1900 number XXXI; pfa: Printz 1929, pl. 65, fig. 12; [Note: **Holotype** of *Lithophyllum subreduncum* Foslie. Additional data — Woelkerling 1993: 213. Box marked '*Lithoph. kotschyanum* f.

subreduncum. Adey & Lebednik 1967: 41 mistakenly list 'Farlow' as collection and '1900' as the collection date]; **TRH A20-1291**.

kotschyanum, Lithophyllum (f. subtilis) [originally described as *Lithophyllum kotschyanum* f. *subtilis* (Foslie 1909b: 34) in the year of Foslie's death. Collections listed in Adey & Lebednik 1967: 42 under species without mention of forma]. **Lectotype**: TRH, A20-1292 (see below).

Hallier [probably H.J.G. Hallier]; Karolinerne [= Caroline Islands]; [no other locality data]; [no habitat data]; [no date]; slide 862; [ex] Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: **Lectotype** of *Lithophyllum kotschyanum* f. *subtilis*. Additional data — Woelkerling 1993: 216. Box marked '*Lithoph. kaiserii-kotschyanum* f. *tenuis subtilis*'. Slide 862 is marked '*L. kaiserii* Heydr. *kotschyanum* f. *subtilis*'. Specimen first identified as *L. kaiserii*]; **TRH A20-1292**.

[Anon.]; Karolinerne [= Caroline Islands]; [no other locality data]; [no habitat data]; [no date]; slide 861; [ex] Bot. Mus. Hamburg [**HBG**]; pfa: Printz 1929, pl. 65, figs 5-6; [Note: box marked '*Lithoph. kaiserii* Heydr. *kotschyanum* f. *tenuis subtilis*'. Slide marked '*L. kaiserii* Heydr. *kotschyanum* f. *subtilis*']; **TRH A20-1293**.

madagascarensis, *Lithophyllum*

See listing above for ***kotschyanum, Lithophyllum (f. madagascariensis)***

okamurae, Lithophyllum (f. subplicatum) [originally described as *Lithophyllum okamurai* f. *subplicata* (Foslie 1901f: 18), but the form subsequently (Foslie 1903c: 467) transferred without change in rank into *Lithophyllum kaiserii* (as *L. kaiserii* f. *subplicata*). Foslie (1909b: 34) then considered *L. kaiserii* to be a heterotypic synonym of *L. kotschyanum* but did not formally publish the combination *Lithophyllum kotschyanum* f. *subplicatum*, although the name appears on two collections in his herbarium, including the type of *L. okamurae* f. *subplicatum*. Both collections listed under ***Lithophyllum kotschyanum* f. *subplicatum***. The formal transfer from *Lithophyllum okamurai* f. *subplicata* to *L. kotschyanum* f. *subplicata* was made by P. Silva in Silva et al. (1996: 248)]

pallescens, Lithophyllum [originally described as *Lithothamnion pallescens* (Foslie 1895b: 4) but subsequently (Foslie 1898b: 9) transferred without change in rank into *Goniolithon* and then (Foslie 1900i: 20) into *Lithophyllum*]. **Holotype**: TRH, A20-1296 (see below).

Diguet; [Mexico]; Kalifornien (Golfen?) [= Gulf of California]; [no habitat data]; [no date]; slides 8, 600 and one unnumbered slide; comm. Hariot number 4 [material sent from **PC**]; pfa: Foslie 1895b, pl. 1 [unnumbered], fig. 14, and Printz 1929, pl. 64, fig. 17; [Note: box marked '*L. crassum* f. *typica*' and '= *L. pallescens*'. Slide 8 marked '8. *L. Crassum* = *pallescens*, Kalifornien'. Slide 600 marked '600 *L. pallescens* (= *L. crassum* in New or crit. *Lith.* fig. 14), Gulf of California, Diguet'. Unnumbered slide marked '*Lith. pallescens*, California, Hariot nr.'. Adey & Lebednik 1967: 42 mistakenly place the Gulf of California in the United States]; **TRH A20-1294**.

[Anon.]; [Mexico]; Kalifornia-Golfen [= Gulf of California], [La Paz Bay], [Espiritu Santo Island]; [no habitat data]; [no date]; slide 4; comm. Hariot, number 5 [material sent from **PC**]; pfa: Foslie 1895b, pl. 1 [unnumbered], figs 11-13, and Printz 1929, pl. 64, figs 15-16; [Note: **Holotype** of *Lithothamnion pallescens* Foslie. Additional data — Woelkerling 1993: 167, Woelkerling 1998c: 357, and Riosmena-Rodriguez et al. 1999: 404. Box marked '*L. pallescens* delvis [= in part]'. Slide marked '*L. pallescens*, Kalifornien [= California]'. Adey & Lebednik 1967: 42 mistakenly list 'Hariot' as the collector and place the Gulf of California in the United States]; **TRH A20-1296**.

subreduncum, *Lithophyllum*

See listing above for *kotschyenum*, *Lithophyllum* (f. *subreduncum*)

Case A, Drawer 21

okamurai, *Lithophyllum* [originally described as *Lithophyllum okamurai* (Foslie 1900h: 4), and subsequently recognized as a distinct species of *Lithophyllum* by Foslie. In some publications, Foslie incorrectly referred to the type form of the species (i.e. *L. okamurai* f. *okamurai*) as *L. okamurai* f. *japonica* or *L. okamurai* f. *typica*. Both names are illegitimate (ICBN, Art. 26)]. **Lectotype**: TRH, A21-1318 (see below).

Møller, H.A.; [Indonesia]; Sydkysten af Java [= south coast of Java], Palaboehan Ratoe; [no habitat data]; viii.1897; slide 1637; [no other collection data]; [no pfa]; [Note: box marked '??*Lithoph. okamurai*?' and 'Kalmar', the city in Sweden where the collector was based until 1917]; **TRH A21-1297**.

[Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; one slide labelled with Siboga Expedition, station 91, collection 76; Siboga Expedition, station 91, collection 76; pfa: Printz 1929, pl. 64, fig. 6; [Note: box marked '*Lithoph. okamurai* f. *japonica*' [f. *okamurai* — see Woelkerling 1991: 131]]; **TRH A21-1298**.

[Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; [no slides]; Siboga Expedition, station 91, collection 50; pfa: Foslie 1904b, pl. 11, fig. 15; [Note: box marked 'Siboga Exp. 50 – brudstk. [= fragments]']; **TRH A21-1299**.

[Weber-van Bosse]; [Indonesia]; Haingsisi; [no habitat data]; 2.-5.ii.1900; one slide labelled S.E. 279 (Siboga Expedition collection number); Siboga Expedition, station 301, collection 279; [no pfa]; [no notes]; **TRH A21-1300**.

[Weber-van Bosse]; [Indonesia]; Haingsisi; [no habitat data]; 2.-5.ii.1900; one slide labelled with Siboga Expedition, station 303, collection 861; Siboga Expedition, station 303, collection 861; [no pfa]; [no notes]; **TRH A21-1301**.

[Weber-van Bosse]; [Indonesia]; Lombok, [Bay of] Labuan Tring; [no habitat data]; 19-21.iii.1899; one slide labelled with Siboga Expedition, station 19, collection 948; Siboga Expedition, station 19, collection 948; [no pfa]; [Note: box marked '?*Lithoph. okamurai*? forma']; **TRH A21-1302**.

[Weber-van Bosse]; [Indonesia]; Sulu Archip. [=Archipelago], Tawi-Tawi Island, Pulu Sanguisiapo; [no habitat data]; 24.-25.vi.1899; one slide labelled with Siboga Expedition, station 93, collection 1059; Siboga Expedition, station 93, collection 1059; pfa: Foslie 1904b, pl. 11, fig. 17; [Note: collections consists only of slide. Slide marked '? Arch. fkr., *Lithoph. okam.*?']; **TRH A21-1303**.

Yendo; Japan; Pacific coast of middle Japan, Province of Awa; [no habitat data]; xii.1898; slide 393; Yendo 1899 collection number 5; [no pfa]; [Note: box marked '*L. grumosum*? = *L. okamurai* f.?']; **TRH A21-1304**.

Yendo; Japan; Pacific coast of middle Japan, Prov. of Izu, Shimoda Harbour; [no habitat data]; iv.1899; slide 392; Yendo 1899 specimen number 57; [no pfa]; [Note: box marked '*L. grumosum* = *L. okamurai* f.?'. Annotation slip in box marked 'Finder ej overv. koncept. [= cannot find overgrown conceptacles]'. Collection includes a small box marked '392' with a fragment used to prepare the slide. Grouped with A21-1306 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1305**.

Yendo; Japan; Pacific coast of middle Japan, Prov. of Izu, Shimoda Harbour; [no habitat data]; iv.1899; [no slides]; Yendo 1899 specimen numbers 51, 129; [no pfa]; [Note: box marked '*L. fasciculatum* *okamura*!'. Specimens are numbered 51 & 129. Grouped with A21-1305 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1306**.

- Yendo; Japan; Misaki; [no habitat data]; iv.1900; slides 539-540; Yendo collection numbers 532, 547; pfa: Foslie 1904b, pl. 11, fig. 12, and Printz 1929, pl. 64, figs 1-5; [Note: specimen numbers have become detached from specimens. Grouped with three collections dated 'iv.1900' (A21-1308, A21-1309, A21-1310) and three collections dated 'iv.1903' (A21-1315, A21-1316, A21-1317) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1307.**
- Yendo; Japan; Misaki; [no habitat data]; iv.1900; slides 542-544; Yendo collection numbers 520, 525, 557; [no pfa]; [Note: box and slides marked '*L. okamurai* f.'. Slide 542 pertains to specimen 520, slide 543 to specimen 525 and slide 544 to specimen 557. Numbers present on specimens in box. Grouped with three collections dated 'iv.1900' (A21-1307, A21-1309, A21-1310) and three collections dated 'iv.1903' (A21-1315, A21-1316, A21-1317) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1308.**
- Yendo; Japan; Misaki; [no habitat data]; iv.1900; slides 553-556; Yendo collection numbers 516, 620, 650, 655; [no pfa]; [Note: box marked '*L. okamurai* f.'. Slides marked '*L. okamurai* f.'. Slide 553 pertains to specimen 655, slide 554 to specimen 620, slide 555 to specimen 650 and slide 556 to specimen 516. Numbers present on specimens in box. Collection also includes a small box marked 'Præp. [= slide] 553, Yendo 655'. Grouped with three collections dated 'iv.1900' (A21-1307, A21-1308, A21-1310) and three collections dated 'iv.1903' (A21-1315, A21-1316, A21-1317) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1309.**
- Yendo; Japan; Misaki; [no habitat data]; iv.1900; slide 541; Yendo collection number 584; [no pfa]; [Note: box marked '*L. okamurai* f. *typica*'. Slide marked '*L. okamurai* f.'. Number present on specimen. Grouped with three collections dated 'iv.1900' (A21-1307, A21-1308, A21-1309) and three collections dated 'iv.1903' (A21-1315, A21-1316, A21-1317) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1310.**
- Yendo; Japan; Misaki; collection depth: 2-5 fathoms; viii.1900; [no slides]; [specimens numbered by Yendo (see Note)]; [no pfa]; [Note: box marked '2-5 fods dybde, jfr. brev [= 2-5 fathoms depth, cf. letter] 20/5-01 [= 20.v.1901]'. Collection includes specimens numbered 644, 646, 647, 660, 676, 678, 679, 683, 690, 700, 702, 705, 709, 730 or 736 (difficult to read), 732 and many fragments. Grouped with three collections of *L. okamurai* (f. *okamurai*) (A21-1311, A21-1312, A21-1313) and the holotype of *L. okamurai* f. *angularis* (A21-1327) under one entry in Adey & Lebednik 1967: 42 without mention of the form name *angularis*]; **TRH A21-1314.**
- Yendo; Japan; Misaki; [no habitat data]; 1900; [no slides]; [specimens numbered by Yendo (see Note)]; [no pfa]; [Note: collection includes specimens numbered 514, 517, 521, 524, 536, 546, 549, 555, 560, 568, 592 or 572 (difficult to read), 595, 597, 619, 627, 628, 630, 633 and some unnumbered fragments. Grouped with three collections of *L. okamurai* (f. *okamurai*) (A21-1312, A21-1313, A21-1314) and the holotype of *L. okamurai* f. *angularis* (A21-1327) under one entry in Adey & Lebednik 1967: 42 without mention of the form name *angularis*]; **TRH A21-1311.**
- Yendo; Japan; Misaki; [no habitat data]; 1900; [no slides]; [most specimens numbered by Yendo (see Note)]; [no pfa]; [Note: collection includes specimens numbered 518, 545, 563 and 659, one unnumbered specimen, and many fragments. Grouped with three collections of *L. okamurai* (f. *okamurai*) (A21-1311, A21-1313, A21-1314) and the holotype of *L. okamurai* f. *angularis* (A21-1327) under one entry in Adey & Lebednik 1967: 42 without mention of the form name *angularis*]; **TRH A21-1312.**
- Yendo; Japan; Misaki (& Hinga?); [no habitat data]; 1900; [no slides]; [specimens numbered by Yendo (see Note)]; [no pfa]; [Note: collection includes specimens numbered 504, 515, 522, 533, 537, 538, 540, 548, 550, 559, 565, 570, 581 and 593. Grouped with three collections of *L. okamurai* (f. *okamurai*) (A21-1311, A21-1312, A21-1314) and the holotype of *L. okamurai* f. *angularis* (A21-1327) under one entry in Adey & Lebednik 1967: 42 without mention of the form name *angularis*]; **TRH A21-1313.**
- Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4 delte, koncept. [= sporangia 4-parted, conceptacles]'. Ma-

- terial with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6). Grouped with four collections dated 'iv.1900' (A21-1307, A21-1308, A21-1309, A21-1310) and two collections dated 'iv.1903' (A21-1316, A21-1317) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1315.**
- Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6). Grouped with four collections dated 'iv.1900' (A21-1307, A21-1308, A21-1309, A21-1310) and two collections dated 'iv.1903' (A21-1315, A21-1317) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1316.**
- Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6). Grouped with four collections dated 'iv.1900' (A21-1307, A21-1308, A21-1309, A21-1310) and two collections dated 'iv.1903' (A21-1315, A21-1316) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1317.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; [no slides]; Yendo collection number 408; pfa: Foslie 1904b, pl. 11, fig. 11; [Note: **Lectotype** of *Lithophyllum okamurai* Foslie. Additional data — Woelkerling 1993: 163, and Verheij 1994: 101. The lectotype specimen 408 originally was grouped with other specimens in A21-1326, but apparently was removed by Foslie and placed in a separate box when it was photographed for inclusion in Foslie 1904b. The removal and the reference to the published figure are annotated on the box containing A21-1326]; **TRH A21-1318.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; [no slides]; Yendo collection numbers 335, 398, 400, 445, 488; [no pfa]; [Note: box marked '*L. okamuræ* ~~*L. fasciculatum*~~ *okam.*'. Grouped with A21-1320, A21-1321, A21-1322, A21-1323 and A21-1324 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1319.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; [no slides]; Yendo collection number 368; [no pfa]; [Note: box marked '*L. yendoi?* *okamurai?* delvis [= in part]'. Annotation slip in box marked 'Et overv. konc. med afr. tap bundne [= one overgrown conceptacle with(meaning of last three words uncertain)]'. Grouped with A21-1319, A21-1321, A21-1322, A21-1323 and A21-1324) under one entry in Adey & Lebednik 1967:42]; **TRH A21-1320.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; [no slides]; Yendo collection numbers 326, 327, 328, 369, 370; [no pfa]; [Note: box marked '*L. okamurai?*'. Grouped with A21-1319, A21-1320, A21-1322, A21-1323 and A21-1324) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1321.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; slide 402; Yendo collection number 377; [no pfa]; [Note: box marked '*L. okamurai* ~~*L. fasciculatum*~~ *okam.*' and 'Carposporer? [= carpospores?]. Grouped with A21-1319, A21-1320, A21-1321, A21-1323 and A21-1324 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1322.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; slides 399-400; Yendo collection number 472; [no pfa]; [Note: box marked '*L. fasciculatum* *okam.*'. Annotation slip in box marked 'utydelige konc. [= indistinct conceptacles]'. Slide 399 marked '*Lithophyllum fasciculatum*, snit af skorpe [= cut of crust]'. Slide 400 marked '*Lithophyllum fasciculatum*, (Lam.) Fosl., Lgdsn. gren [= longitudinal section of branch]'. Grouped A21-1319, A21-1320, A21-1321, A21-1322 and A21-1324 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1323.**
- Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; slide 401; Yendo collection number 486; [no pfa]; [Note: box marked '*L. fasciculatum*'. Slide 401 marked '*Lithophyllum (fasciculatum) okamuræ*'. Grouped with

A21-1319, A21-1320, A21-1321, A21-1322 and A21-1323) under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1324**.

Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; slide 403; Yendo collection number 270; [no pfa]; [Note: grouped with A21-1326 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1325**.

Yendo; Japan; Pacific coast of middle Japan, Sagami Prov., at the Marine Laboratory; [no habitat data]; 1899; [no slides]; Yendo collection numbers 80, 120, 379, 382, 389; [no pfa]; [Note: collection includes five numbered specimens (see above), one unnumbered specimen and some fragments. Box cover annotated to indicate that specimen 408 (the lectotype of *Lithophyllum okamurai*) was removed to a separate box (now collection A21-1318). Published photo annotation on box pertains to specimen 408 in A21-1318. Yendo collection number 270, indicated on the box lid by an unknown person, belongs to A21-1325. Box lid also marked 'og særsk. æske nr. 367 [= and separate box nr. 367]' and 'Præp. 398 d. art? [= slide 398 this species?]. Neither Yendo collection number 367 nor slide 398 could be found in Foslie's herbarium during the present study. Annotation slip in box marked 'De ngl. fremst. koncept. er sands. cystoc. – carposp. smaa [= some of the protruding conceptacles are probably cystocarpic – carposporangia small]'. Grouped with A21-1325 under one entry in Adey & Lebednik 1967: 42]; **TRH A21-1326**.

okamurai, *Lithophyllum* (f. *angularis*) [originally described as *Lithophyllum okamurai* f. *angularis* (Foslie 1901f: 18), where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 42 under species without mention of forma]. **Holotype:** TRH, A21-1327 (see below).

Yendo; Japan; Misaki; [no habitat data]; viii.1900; [no slides]; Yendo collection number 642; pfa: Foslie 1904b, pl. 11, fig. 12, and Printz 1929, pl. 64, fig. 7; [Note: **Holotype** of *Lithophyllum okamurai* f. *angularis* Foslie. Additional data — Woelkerling 1993: 26. Box marked '*L. okamurai* f. ~~*japonica*~~ *angulata*'. Specimen marked '642'. Grouped with four collections of *L. okamurai* (f. *okamurai*) (A21-1311, A21-1312, A21-1313, A21-1314) under one entry in Adey & Lebednik 1967:42 without mention of the form name]; **TRH A21-1327**.

okamurai, *Lithophyllum* (f. *contigua*) [originally described as *Lithophyllum okamurai* f. *contigua* (Foslie 1904c: 7), but not mentioned in Foslie's subsequent publications. Woelkerling & Campbell (1992: 98) were unable to locate specimens labelled *Lithophyllum okamurai* f. *contigua* in TRH, but Townsend et al. 1995: 93 provided evidence that this name was crossed out on the box housing the lectotype of *Archaeolithothamnion australasicum* (C19-3370), and they concluded that it was highly likely that Foslie (1907a: 12) had re-described *Lithophyllum okamurai* f. *contigua* as *Archaeolithothamnion australasicum* without so indicating and that both taxa are likely to be based on the same type (C19-3370). Consequently, a separate entry has not been prepared here for *Lithophyllum okamurai* f. *contigua*. Woelkerling (1997: 248) provides further comments]

okamurai, *Lithophyllum* (f. *ptychoides*). See listing below for **ptychoides, *Lithophyllum***

okamurai, *Lithophyllum* (f. *trincomaliensis*) [originally described as *Lithophyllum okamurai* f. *trincomaliensis* (Foslie 1906a: 23), where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 42 under species without mention of forma]. **Holotype:** TRH, A21-1328 (see below).

Svedelius; Ceylon [now Sri Lanka]; Østkysten [= east coast], Trincomalee; collection depth: ca 1 metre; 17.iv.1903; slides 969-970; [no other collection data]; pfa: Printz 1929, pl. 64, figs 8-9; [Note: **Holotype** of *Lithophyllum okamurai* f. *trincomaliensis*. Additional data —

Woelkerling 1993: 225, and Verheij 1994: 101. Collection consists of a smaller box (containing a specimen) that is housed within a larger box. Larger box also contains several further specimens. Lid of smaller box marked 'Præp. 969 af største ekspl. [= slide 969 of largest specimen]. Præp. 970 af mindste [= slide 970 of smallest]'. Slides marked '*Lithoph. okamurai* f. *valida trincomaliensis*'; **TRH A21-1328**.

okamurai, Lithophyllum* (f. *valida*)**. See listing below for ***validum, Lithophyllum

ptychoides, Lithophyllum [originally described as *Lithophyllum okamurai* f. *ptychoides* (Foslie 1907a: 29) but subsequently (Foslie 1909b: 32) raised to the rank of species, namely *Lithophyllum ptychoides*]. **Lectotype: TRH, A21-1329** (see below).

Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 26 fathoms; viii.1905; slides 1283-1284; C.16 [a designated collection station at Saya de Malha Bank (see Foslie 1907e: 93-98)]; pfa: Printz 1929, pl. 64, fig. 10; [Note: **Lectotype** of *Lithophyllum okamurai* f. *ptychoides*. Additional data — Woelkerling 1993: 182. Box marked '*Lithoph. okamurai ptychoides* f. *ptychoidea*'. Box also marked 'Indiske hav [= Indian Ocean]'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean. Specimens in box marked with slide numbers. Collection includes small box marked 'konc. [= conceptacles]']; **TRH A21-1329**.

Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 29 fathoms; viii.1905; [no slides]; C. 19 [= a designated collection station at Saya de Malha Bank (see Foslie 1907e: 93-98)]; [no pfa]; [Note: box marked '*Lithoph. okamurai* f. *ptychoidea?* *ptychoideum?*'. Box also marked 'Indiske hav [= Indian Ocean]'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean]; **TRH A21-1330**.

validum, Lithophyllum [originally described as *Lithophyllum okamurai* f. *valida* (Foslie 1906a: 23) but subsequently (Foslie 1909b: 32) raised to the rank of species, namely *Lithophyllum validum*]. **Holotype: TRH, A21-1331** (see below).

Svedelius; Ceylon [now Sri Lanka]; Dundra Head; [collected in the] littoral; 16.iii.1903; slide 980; [no other collection data]; pfa: Printz 1929, pl. 64, fig. 11; [Note: **Holotype** of *Lithophyllum okamurai* f. *valida*. Additional data — Woelkerling 1993: 231, and Verheij 1994: 101. Box marked '*Lithoph. okamurai* f. *validum*'. Collection includes three small boxes, one marked '980', one marked 'konc. fotogr. [= conceptacles photographed]' and one unmarked. Annotation slip in box marked 'Dundra Head i syd [= in south]' and 'Trincomalee – østkysten [= east coast]'. Trincomalee is the type locality for *Lithophyllum okamurai* f. *trincomaliensis* (A21-1328)]; **TRH A21-1331**.

Case A, Drawer 22

andrussowii, Lithophyllum [originally described as *Lithophyllum andrussowii* (Foslie 1899c: 16), where Foslie retained it in publication]. **Holotype: TRH, A22-1332** (see below).

[Anon.]; [Turkey]; Sea of Marmara, entrance to The Dardanelles; collection depth: ca 15 fathoms; [no date]; slides 601, 1151; comm. Andrussow; pfa: Printz 1929, pl. 63, figs 23-27; [Note: **Holotype** of *Lithophyllum andrussowii* Foslie. Additional data — Woelkerling 1993: 26. Original large round box marked 'Analyse nr. 21'. Large round box contains two smaller original boxes, one marked '*L. andrussowii*, pl. 63, figs 23-27' and the other

marked '*L. andrussowii*, største og groveste ekspl. præp. 601 [= largest and coarsest specimen slide 601]'; **TRH A22-1332**.

crassum, *Lithophyllum* [see listing below for **racemus, *Lithophyllum***. A number of collections originally identified as *Lithophyllum crassum* by Foslie were later placed by him in *Lithophyllum racemus*, but not all names on boxes were changed]

daedaleum, *Lithophyllum* [originally described as *Lithophyllum daedaleum* (Foslie & Howe 1906b: (133)), where Foslie retained it in publication]. **Holotype: NY**, Howe collection 2676 (Woelkerling 1993: 70).

Blokeslee; Venezuela; Margarita Island; [no habitat data]; viii.1903; slide 1478; comm. Farlow 1907 number 1; [no pfa]; [no notes]; **TRH A22-1333**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Christianssteds havn [= the harbour of Christiansted]; 'lavt vand [= low water]'; 1905–1906 20.i.1906; slides 1194–1195; [no other collection data]; [no pfa]; [Note: box marked 'Præp. 1195 af tykkeste [= slide 1195 of thickest]' and 'præp.1194 af return. ekspl. [= slide 1194 of returned specimen]'. Annotation slip in box includes locality data and is marked 'Algæ marinæ ex insulis Daninicis Indiæ occidentalis' and 'Legit F. Børgesen: iter tertium 1905-06']; **TRH A22-1334**.

Howe; Puerto Rico; Culebra Island; on surf-beaten rocks, near low water mark; 6.iii.1906; slide 1081; [Howe collection number] 4322; pfa: Printz 1929, pl. 66, fig. 1; [Note: box marked 'N.Y.B.G. Nr 4322' **[NY]**. Habitat data on annotation slip in box which also is imprinted with 'New York Botanical Garden, North American Marine Algae'. Slide 1081 also is marked 'N.Y.B.G. 4322']; **TRH A22-1335**.

Howe; Puerto Rico; Guánica Harbor; on surf-beaten rocks, at low water mark; 28.vi.1903; two slides labelled with Howe collection number 2659; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]**. Collection also includes a small box marked '25' (meaning unclear). Small box contains one fragment. Collection also includes a photo placed in a separate envelope. Habitat data is on back of photograph along with other collecting information. Box and both slides marked '*L. daedaleum* f.'. One slide further marked '2659 s/med [= mixed with] 2694'. Howe collection 2694 is filed under *Goniolithon accretum* in Drawer A10 (A10-476). According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**]; **TRH A22-1336**.

Howe; Puerto Rico; Salinas Bay, near Guánica; on surf-beaten rocks, at low water mark; 29.vi.1903; one slide labelled with Howe collection number 2676; [no other collection data]; pfa: Printz 1929, pl. 66, fig. 2; [Note: **Isotype** of *Lithophyllum daedaleum* Foslie. Additional data — Woelkerling 1993: 70, and Woelkerling & Verheij 1995: 45, and Woelkerling 1998c: 308. Annotation slip in box contains locality and habitat data and is imprinted 'New York Botanical Garden, North American Marine Algae' **[NY]**. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**]; **TRH A22-1337**.

Howe; Puerto Rico; San Juan, Santurce; on surf-beaten rocks, at low water mark; 29.v.1903; four slides respectively marked 2193, 2193a, 2193b, 2193c; 'Howe n. 2193' [Howe collection number]; [no pfa]; [Note: collection includes small box marked 'konc. [= conceptacles] 2193'. One specimen in box is marked '2193'. 'New York Botanical Garden, North American Marine Algae' **[NY]** printed on slip in box. Slip also has locality and habitat data and is marked 'light pink, quickly fading' and 'no. 2193' and 'May. 29.1903'. A second note in original box is marked 'Præp. a. Gren af mindste ekspl. [= slide a. Branch of smallest specimen]' and 'Præp. b. 2 grene af næstst. ekspl. [= slide b. 2 branches of second largest specimen]' and 'Præp. c. Gren og skorpe af største [= slide. c. Branch and crust of largest]'. A third note also has information about locality and habitat data and is imprinted with 'New York Botanical Garden, North American Marine Algae' and marked by hand with 'no. 2193'. According to Foslie & Howe (1906b: (128)), the **TRH** collection (A22-

1338) is a duplicate of material in **NY**, and the collection locality is given as Santurce Foslie & Howe (1906b: (133). Two photographs of **NY** material of Howe number 2193 were found with A22-1338 in **TRH**, but the collection date is given as '27.v.1903'. The photos do not constitute part of A22-1338 because they are of different specimens presumably in **NY**. The specimens in the photos are depicted on pl. 84 of Foslie & Howe 1906b. Adey & Lebednik 1967: 43 mistakenly list the isotype illustration from A22-1337 as pertaining to this collection and list the collection locality as 'Salinas Bay'; **TRH A22-1338**.

Howe; Puerto Rico; San Juan; on surf-beaten rocks, at low water mark; 4.vi.1903; one slide labelled with Howe collection number 2327; [no other collection data]; pfa: Printz 1929, pl. 66, figs 3-4; [Note: box marked '*L. daedaleum* f.' and 'New York Bot. Garden' **[NY]**. 'New York Botanical Garden, North American Marine Algae' printed on slip in box. Slip also marked with collection data and with 'June 4.1903, no. 2327 (= 2193)'. Foslie annotated slip with 'nærmer sig hab. *L. retusum* [= grading in habit into *L. retusum*']. According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**; **TRH A22-1339**.

Jukes; [Brazil]; Isle of Trinidad [= Trinitade Island, off Brazil], South Atlantic; [no habitat data]; [no date]; slide 334; [ex] Brit. Mus. **[BM]** 1899 number 4; [no pfa]; [Note: box marked '*(L. pallescens) L. daedaleum*'. Slide marked 'South Atlantic, Isle of Trinidad. Leg. J.B. Jukes H.M.S. "Fly" '. Annotation slip in box marked 'Pres. by J.B. Jukes Esq. H.M.S. "Fly" ']; **TRH A22-1341**.

[Anon.]; Brasilia [Brazil]; [no other locality data]; [no habitat data]; [no date]; slide 1663; [ex] Mus. Paris **[PC]** viii.1908 number 6; [no pfa]; [Note: box marked '*Lithoph. ~~xxxxxx~~ daedaleum (?)*'. Crossed out name possibly *incrassatum* or *incrustans*]; **TRH A22-1340**.

daedaleum, Lithophyllum (var. pseudodontatum) [originally described as *Lithophyllum daedaleum* var. *pseudodontatum* (Foslie & Howe 1906b: (133)), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967 under species without mention of the variety]. **Holotype: NY**, Howe collection 2675 (Woelkerling 1993: 180).

Howe; Puerto Rico; Salinas Bay, near Guánica; on exposed rocks at low water mark; 29.vi.1903; one slide with Howe collection number 2675; [no other collection data]; pfa: Printz 1929, pl. 66, fig. 5; [Note: **Isotype** of *Lithophyllum daedaleum* f. *pseudodontatum*. Additional data — Woelkerling 1993: 180. Box marked 'New York Bot. Garden' **[NY]**. 'New York Botanical Garden, North American Marine Algae' printed on slip in box. Slip includes habitat data and is marked '*Lithoph. daedaleum* n. sp. [= new species] f. *pseudodontata*'. According to Foslie & Howe (1906b: (128)), the **TRH** collection (A22-1342) is a duplicate of material in **NY**. One photograph of **NY** material of Howe number 2675 was found with A22-1342 in **TRH**. The photo does not constitute part of A22-1342 because it is of a different specimen presumably in **NY** (but not depicted in Foslie & Howe 1906b)]; **TRH A22-1342**.

racemus, Lithophyllum [originally described as *Millepora racemus* (Lamarck 1816: 203), but the species subsequently transferred without change of rank into *Nullipora* (Eudes-Deslongchamps 1824: 571), then into *Lithothamnion* (Areschoug 1852: 521), then into *Lithophyllum* (Foslie 1898b: 9), then into *Lithothamniscum* (Heydrich 1900a: 83) and then into *Stichospora* (Heydrich 1901b: 274). Foslie retained the species in *Lithophyllum* from 1898 onwards]. **Neotype: MPUM**, number 7507 (Basso, Fravega & Vannucci 1996: 278).

Andersson, G.; [Italy]; Neapel [= Naples]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. crassum*' without reference to *L. racemus*. Collection not included in Adey & Lebednik 1967]; **TRH A22-1344**.

Ginzberger; [Croatia]; [Adriatic Sea], Dalmatien [= Dalmatian Coast], Brazza [= Brač or Brach] Island; [no habitat data]; [no date]; slide 22; ex herb. Bot. Mus. Wien **[W]**; [no pfa];

[Note: the island is known as Brazza in Italian, Brač in Slovenian, and Brach in English. Original sliding-lid box contains a small round box marked '22' (referring to slide 22). Small round box contains one fragment. Slide 22 marked '*L. racemus* (Lam.) Fosl. (Hab. nær [= habit close to] *L. ramosiss.*)']; **TRH A22-1345.**

Hauck; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; includes three slides numbered 1, 2, 3; ex herb. Thur. - Born. [PC]; [no pfa]; [Note: box marked '*L. crassum*' but filed with collections of *racemus*. Box also marked 'Grent. nedtr. i centr. [= top of branches depressed in centre]'. Entry for collection in Adey & Lebednik 1967: 43 reads '----- ex herb. Thuret - Bornet']; **TRH A22-1346.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], [Brioni Islands], Fahrt nach Brioni [= journey to Brioni Islands]; [no habitat data]; 7.vi.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 63, fig. 15; [Note: Printz had removed the specimen depicted in pl. 63, fig. 15 from its original box and placed it in a separate box with the specimens depicted in figs 14 & 16. The depicted specimen has been returned to the box housing the rest of A22-1347 during the present study. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1348, A22-1349, A22-1350, A22-1351, A22-1352, A22-1357). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1347.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], westl. nahe bei Eiland Gaza [= westerly, near to Gaza Island]; collection depth: 25-30 metres; 11.vi.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 63, fig. 16; [Note: locality on box is numbered '1b'. Box also faintly marked '(Fig. 16)'. Printz had removed the specimen depicted in pl. 63, fig. 16 from its original box and placed it in a separate box with the specimens depicted in figs 14 & 15. The depicted specimen has been returned to the box housing the rest of A22-1350 during the present study. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1347, A22-1348, A22-1349, A22-1351, A22-1352, A22-1357). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1350.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zw. [= between] Girolamo u. [= and] Punta Rancon; collection depth: 15-30 metres; 11.vi.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 63, fig. 14; [Note: locality on box is numbered '7'. Box also marked '(Fig. 14)'. Printz had removed the specimen depicted in pl. 63, fig. 14 from its original box and placed it in a separate box with the specimens depicted in figs 15 & 16. The depicted specimen has been returned to the box housing the rest of A22-1348 during the present study. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1347, A22-1349, A22-1350, A22-1351, A22-1352, A22-1357). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1348.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], vor [= in front of] Montauro; collection depth: 30-33 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box containing collection is numbered '1' and also marked '(s. m. [= mixed with] *L. expansum*)'. Grouped with A22-1353 and A22-1355 under one entry in Adey & Lebednik 1967: 43]; **TRH A22-1354.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola, nahe bei [= near to] St. Giovanni; collection depth: 34-36 metres; 7.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '1b'. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1347, A22-1348, A22-1350, A22-1351, A22-1352, A22-1357). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1349.**

- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola; [no habitat data]; 28.ix.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box containing collection is numbered '3'. Grouped with A22-1354 and A22-1355 under one entry in Adey & Lebednik 1967: 43. Adey & Lebednik (1967: 43) also mistakenly give the collection date for A22-1353 as 24.ix.1899]; **TRH A22-1353.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], südlich von [= south of] Punta Peneda; collection depth: 40-50 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '5'. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1347, A22-1348, A22-1349, A22-1350, A22-1352, A22-1357). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1351.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], zw. [= between] St. Catarina u. vor [= and in front of] Punta Eufemia; collection depth: 21-26 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box containing collection is numbered '6'. Grouped with A22-1353 and A22-1354 under one entry in Adey & Lebednik 1967: 43]; **TRH A22-1355.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwischen [= between] Toranda u. [= and] Gaza; collection depth: 16-25 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '1d'. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1347, A22-1348, A22-1349, A22-1350, A22-1351, A22-1357). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1352.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], westl. nahe bei [= westerly, near] St. Catarina; collection depth: 10-20 metres; 1.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box numbered '1'. Collection not included in Adey & Lebednik 1967]; **TRH A22-1356.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 24-25 metres; 20.+24.v.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 63, fig. 17; [Note: original round box containing collection is numbered '3' and also is marked 'sp. konc. udt. fotogr. [= sporangial conceptacles taken out for photography]'. One annotation slip in box marked 'ingen sporer [= without spores]'. A second annotation slip in box marked 'Sp. konc. i papir fotogr. [= sporangial conceptacles in paper photographed]'. Collection also includes a small round box inside larger original box with conceptacle-bearing fragments. Small box marked 'sp. konc. [= sporangial conceptacles]'. Grouped in Adey & Lebednik 1967: 43 under one entry with other 20.v.-11.vi.1895 Kuckuck collections of *racemus* (A22-1347, A22-1348, A22-1349, A22-1350, A22-1351, A22-1352). Adey & Lebednik recorded 10 boxes but only 8 were found, including the box housing specimens depicted in Printz 1929, pl. 63, figs 14-16]; **TRH A22-1357.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; xii.1896; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A22-1358.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj] [but see Note]; collection depth: 33 metres; 10.i.1897; slide 602; [no other collection data]; [no pfa]; [Note: box containing collection is numbered '1'. Slide marked '*L. racemus* f. (nor *L. anderssonii*), Brionische Inseln bei Pola'. The locality on the slide differs from the locality on the box lid and it is uncertain which is correct]; **TRH A22-1359.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH A22-1360.**
- Solms-Laubach [but see Note]; [Italy]; Neapel [= Naples]; [no habitat data]; [no date]; slide 23; 'ded. [= given by] G. Andersson' [but see Note]; pfa: Printz 1929, pl. 63, figs 19, 21; [Note: box marked '*L. crassum racemus*' and 'Anth. koncept., sp. + cyst.?' [= antheridial

- conceptacles, sporangia+ cystocarpic?'] and 'Præp. Fuess 23 af største [= slide Fuess 23 of largest]'. Box also marked 'leg. Gunnar Andersson', but slide marked '*L. crassum*, Neapel, leg. Solms-Laubach ded. [= given by] Gunnar Andersson'. Annotation slip in box marked 'ingen sporer [= without spores]'. Collection includes a small box (inside larger box) marked 'Neapel, af næstst. ekspl., anth. konc. = præp. 23 [= of second largest specimen, antheridial conceptacles = slide 23]'; **TRH A22-1343.**
- Tellam; [United Kingdom]; [England], Falmouth; [no habitat data]; [no date]; slide 1146; [no other collection data]; [no pfa]; [Note: box marked '*racemus*' at the top with '*Lithothamn. crassum*' underneath followed on a third line by '(*Melobesia fasciculata* Harv. pro parte) fide Batters' and then further down 'ikke [= not] *racemus*'. Collection filed with other collections of *racemus* in the Foslie herbarium. Adey & Lebednik 1967: 43 mistakenly list collector as 'Tillan']; **TRH A22-1361.**
- Trail; [United Kingdom]; [England], Falmouth; [no habitat data]; [no date]; slide 241; box marked 'ex herb. Batters' [now in **BM**] and '2 smaa ekspl. [= two small specimens] ex herb. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1899'; [no pfa]; [Note: original larger round box also marked '*L. racemus* (?)' and 'Lille stk. i æske og præp. 241 af store ekspl.?? [= small piece in box and slide 241 of large specimen??]'. Larger round box also contains small round box marked '241']; **TRH A22-1362.**
- Trail; [United Kingdom]; [England], Falmouth; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box lid marked 'Cfr. [= cf.] *racemus*!' on top and '*L. racemus*?' on bottom and '*Lithothamn. fasciculatum* (*Melobesia fasciculata* Harv.) fide Batters' and '= *L. fruticosum*?' in the centre. One annotation slip in box marked 'I snitene bare *L. frutic.* [= in the cuts just *L. fruticosum*']. Second annotation slip in box marked '..... snit. konc. ligner *L. frutic.* [= cut conceptacles resemble *L. fruticosum*']. Original sliding-lid box also contains small round unmarked box with fragments. Collection not included in Adey & Lebednik 1967]; **TRH A22-1363.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; littoral; iii.1903; slides 1502-1503; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. racemus* & ~~*Gen. mammosum* (?)~~ *Lith. fruticosum*' and 'mell. slagtehus + badeanst. [= between slaughterhouse + swimming bath]']; **TRH A22-1364.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; 'paa sten fra lit. reg. [= on pebbles from littoral region]'; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 ekspl. paa sten fra lit. reg. mell. slagtehus + badeanst. [= two specimens on pebbles from littoral region, between slaughterhouse + swimming bath]'. Collection not included in Adey & Lebednik 1967]; **TRH A22-1365.**
- [Anon.]; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; collection depth: 28 metres; [no date]; [no slides]; herb. Franz B. Lichtenstern [incorrectly spelled Lichtenstein] ex. Herb. Bot. Mus. Wien [**W**]; [no pfa]; [Note: box marked '*L. crassum* = *L. racemus*'. Adey & Lebednik 1967: 43 mistakenly list 'Lichtenstein' as the collector]; **TRH A22-1366.**
- [Anon.]; Bahamas; [no other locality data]; [no habitat data]; [no date]; slide 11; 'Farl. ded. nr. 4 [= nr. 4 given by Farlow]', ex herb. Thur. - Born. [**PC**]; [no pfa]; [Note: box marked '*Lith. crassum* = *L. racemus*'. Adey & Lebednik 1967: 43 mistakenly list 'Farlow' as the collector]; **TRH A22-1367.**
- [Anon.]; [France]; Villefranche s/m. [= Villefranche-sur-Mer]; [no habitat data]; [no date]; slide 962; comm. J. Chalon 1905; [no pfa]; [Note: box marked 'Præp. 962 af ekspl. mk. x [= slide 962 of specimen marked x]'. Collection not included in Adey & Lebednik 1967]; **TRH A22-1368.**
- [Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; [no date]; [no slides]; comm. Spyridion Miliarakis; [no pfa]; [Note: Adey & Lebednik 1967: 43 mistakenly list 'Miliarakis' as the collector]; **TRH A22-1369.**
- [Anon.]; [Italy]; Golfo di Napoli [= Gulf of Naples]; collection depth: 30-80 metres; 1896; two slides labelled 10 and one slide labelled 1153; [no other collection data]; pfa: Printz 1929, pl. 63, figs 18-21; [Note: original box marked 'Analyse nr. 20' and 'fig.10', but Printz 1929, pl. 63, fig 10 is of a specimen of *Lithophyllum fasciculatum* f. *complanatum*. Larger origi-

nal box also contains three original small boxes: one marked 'fig. 20 [= figure 20]', one marked 'Præp. [= slide] 10, *L. racemus*, Neapel.', and one marked 'Præp. [= slide] 1153, *L. racemus*, Neapel fig. 18'. Slide 1153 marked 'Zool. St. [= Zoological Station]'. One annotation slip in larger original box marked 'Afk. præp. af størtse ekspl. med nedtrykt midtp., koncept. af mindste med svagt ophøiet ekspl. [= decalcified (?) slide of largest specimen with depressed centre, conceptacles of smallest with gently elevated examples]'. Another annotation slip marked 'under nærmere om muligens sp., konc. omkr. som hos *incrust.* [= with further examination perhaps sporangia, conceptacles resemble those of *incrust.*]'; **TRH A22-1370.**

- [Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot vi.1906, number 12 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked '*Lithoph. racemus* forma?' and 'steril [= sterile]'. Adey & Lebednik 1967: 43 mistakenly list 'Hariot' as the collector and 'vi.1906' as the collection date]; **TRH A22-1371.**
- [Anon.]; [Spain]; Ile Baleares [= Balearic Islands], a 5 milles env. au S.E. de Cabrera (bord du plateau Continental) [= five miles SE of Cabrera [Island] (edge of the continental plateau)]; collection depth: 131 metres; 7.vii.1905; [no slides]; comm. Pruvot-Chalon; [no pfa]; [Note: box marked '*L. calcareum* f. *compressa* = *Lithoph. racemus*?' and 'Brudstk. [= fragment]'. One annotation slip in box marked 'Obs. konc. med tap., vel ej anden art? [= conceptacles observed with spouts, perhaps another species?']'. Another annotation slip in box marked 'Skjævt snit [= oblique cut]'. Adey & Lebednik 1967: 43 mistakenly list 'Pruvot-Chalon' as the collector]; **TRH A22-1372.**
- [Anon.]; [geographic region uncertain, but see Note]; [no locality data]; [no habitat data]; [no date]; slide 25; [no other collection data]; [no pfa]; [Note: box marked '*L. crassum*' and 'Brudst. af ekspl. [= fragment of specimen] Hauck' and 'Præp. [= slide] Fuess nr. 21' but slide is numbered 25. Slide 25 marked '*L. racemus* Arord., see Hauck = *L. ramosiss.*, Ins. Cherso, Hauck ded. [= given by Hauck] 1878, Ex herb. Thur. - Born.' [**PC**]. It is unclear whether Cherso is the collection locality for A22-1373 or for a Hauck collection of *Lithothamnion ramosissimum*. One annotation slip in box marked 'Skjævt snit [= oblique cut]'. Another slip of paper marked '1' contains a fragment. Still another slip marked '2' does not contain a fragment but a loose fragment is in box]; **TRH A22-1373.**
- [Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slide 24; ex herb. Aresch. (Wittr.) [**S**]; [no pfa]; [Note: box marked '*Lithoth. racemus* = *L. crassum*' and '*Mill. racemus* Lamarck, ser. Aresch' and 'uden lok. [= without locality]'. Annotation slip in box marked 'Foruden hovedsporer sees paa et længdesn. af konc. finere porer som dels naar n. til koncept overfl. dels kun et lidet stk. op. Disse konc. af skorpef. paa *racemus*? [= except for main spores seen on a longitudinal section of conceptacles, finer pores which in part reach down to the conceptacle surface and in part only a little distance up. These conceptacles of crustiform on *racemus*?']'. Collection also includes a small box marked '24']; **TRH A22-1374.**
- [Anon.]; [Italy]; Neapel [= Naples]; [no habitat data]; 1896; [no slides]; comm. Zool. Station [Naples] 1896; [no pfa]; [Note: the box is empty]; **TRH A22-1375.**

retusum, Lithophyllum [originally described as *Lithothamnion retusum* (Foslie 1897b: 15) but subsequently (Foslie 1899b: 10) transferred without change in rank into *Goniolithon* and then (Foslie 1900i: 18) into *Lithophyllum*]. **Holotype:** **TRH**, A22-1378 (see below).

Brauns; West. Africa, Gold Coast [now Ghana]; Riff., Old Fort Brandenburg; [no habitat data]; 4.viii.1892; [no slides]; ex Bot. Mus. Hamburg [**HBG**] 1901; [no pfa]; [no notes]; **TRH A22-1376.**

Gravier; Afrika [= Africa], [São Tomé and Príncipe]; San Tome [= São Tomé Island]; [no habitat data]; [no date]; slide 1263; comm. Hariot (1907) number 9 (Mus. d'hist. Nat. Paris) [**PC**]; [no pfa]; [Note: box marked '*Lithoph. retusum* f.?' One annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Another annotation slip in box marked 'Obs. delvis

altern. lange og korte celler [= in part alternating long and short cells observed]'. Adey & Lebednik (1967: 43) list the locality as 'St. Thomas'; **TRH A22-1377**. Möller [A.F.]; Afrika [= Africa], [São Tomé and Príncipe]; St. Thomé [= São Tomé Island], Bahia de Anna Chaves et Praia Lagarto [= Bay of Anna & Praia Lagarto]; [no habitat data]; vii.1885; slides 9, 848, 874-875; comm. Jard Bot. Coimbra [**COI**], Henriques number 24; pfa: Printz 1929, pl. 64, figs 12-14; [Note: **Holotype** of *Lithothamnion retusum* Foslie. Additional data — Woelkerling 1993: 189, and Woelkerling 1998c: 362. Woelkerling 1998c: 362 mistakenly gives 1855 as the collection date. Annotation slip in box marked 'Til afbildn. nor *L. incrustans!* [= for photography *L. incrustans!*]. Collection includes three small boxes with fragments and a bag with fragments and a note marked 'SEM'. Slips with cell measurements occur for material on slides 9, 848 & 874]; **TRH A22-1378**.

simile, Lithophyllum [originally described as *Lithophyllum simile* (Foslie 1909b: 47) in the year of Foslie's death]. **Holotype:** TRH, A22-1379 (see below).

[Anon.]; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island]; [no habitat data]; [no date]; slide 599; ex herb. Jard. Bot. Coimbra [**COI**], collection number 33; pfa: Printz 1929, pl. 63, fig. 22; [Note: Adey & Lebednik 1967: 43 give locality as St Thomas. **Holotype** of *Lithophyllum simile* Foslie. Additional data — Woelkerling 1993: 201, and Woelkerling 1998c: 327. Slide marked '*L. racemus-simile*, Comm. Prof. Henriques 1901'. One annotation slip in box marked '*L. simile*. Skizze av hele med konc. [= sketch of whole (plant) with conceptacles]'. Another annotation slip has cell measurements and is marked '2 arter i præp.? [= two species on slide?]' and 'Præp. [= slide 599]']; **TRH A22-1379**.

Case A, Drawer 23

aninae, Lithophyllum [first appeared as a nomen nudum (Foslie 1906b: 24) and then formally described as *Lithophyllum aninae* (Foslie 1907b: 28), and subsequently retained in that genus by Foslie]. **Holotype:** TRH, A23-1380 (see below).

Vanhöffen; Cap Verdiske øer [= Cape Verde]; St. Vincent; [no habitat data]; ix.1901; slides 920-921; Gauss Expedition [= German South Polar Expedition 1901-1903]; pfa: Printz 1929, pl. 63, figs 30-33; [Note: **Holotype** of *Lithophyllum aninae* Foslie. Additional data — Woelkerling 1993: 27 and Woelkerling 1998c: 302. Box marked 'Største ekspl. af tekst fig. Dernest = præp. 920 & dernest = præp. 921 & 3 brudst. [= largest specimen of text figure. Then = slide 920 & then = slide 921 and three fragments]'. Annotation slip in box marked 'Prøve sendt Mme Lemoine jan. 1936 [= sample sent to Mme Lemoine January 1936]'; **TRH A23-1380**.

congestum, Lithophyllum [originally described as *Goniolithon congestum* (Foslie 1899c: 13) but then (Foslie 1900i: 20) transferred without change in rank into *Lithophyllum*, and subsequently retained in that genus by Foslie]. **Holotype:** TRH, A23-1381 (see below).

Goes; St. Barthélemy; [no other locality data]; [no habitat data]; 1867; slides 435-436; [no other collection data]; pfa: Printz 1929, pl. 66, figs 6-7; [Note: **Holotype** of *Goniolithon congestum* Foslie. Additional data — Woelkerling 1993: 59 and Woelkerling 1998c: 291.

Box marked '*Lithoph. congestum*'. Collection includes a small box with one fragment and marked '435'. Slide 435 marked 'Vestindien [= West Indies]' and 'Af sammentr. gren [= of compressed branch]'. Slide 436 is marked 'Vestindien [= West Indies]' and 'Af trind gr., underside expl. [= of tubby branch, underside of specimen]'. St. Barthélemy is part of the Lesser Antilles, one of the three island groups comprising the West Indies, along with the Greater Antilles and the Bahamas]; **TRH A23-1381**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slides 454-455; ex Mus. Zool. Upsal. **[UPS]**; [no pfa]; [Note: large round box marked '*Lithoth. dentatum* Kütz. scr. Kjellman' and '= *Lithoph. congestum* f.'. 'scr. Kjellman' is interpreted here to mean that the original identification of the **UPS** material as *Lithothamnion dentatum* was in Kjellman's script. Annotation slip in box marked 'Fotogr., største lgd. ca. 11 cm [= photograph, longest length ca 11 cm]'. Large round box also contains small round box with fragments. A23-1382 also includes four photographs housed in a separate envelope]; **TRH A23-1382**.

elegans, Lithophyllum (f. elegans) [originally described as *Lithothamnion elegans* f. *angulata* (Foslie 1895b: 6) (*angulata* is a superfluous substitute for the type form of the species, f. *elegans* (Woelkerling 1993: 27, 83), but then (Foslie 1898b: 8) transferred at species level into *Goniolithon* (without mention of form), and then (Foslie 1900i: 20) into *Lithophyllum* (explicitly mentioning the f. *angulata*), and subsequently retained in that genus by Foslie but without mention of the form. Collection listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Holotype: TRH, A23-1383** (see below).

[Anon.]; [Mexico]; Kalifornia-Golfen [= Gulf of California]; [no habitat data]; [no date]; [one unnumbered slide]; [comm.] Hariot **[PC]** number 2; pfa: Printz 1929, pl. 63, fig. 1 [without mention of the *forma* name in the figure legend]; [Note: **Holotype** of *Lithothamnion elegans* f. *elegans* Foslie. Additional data — Woelkerling 1993: 83, and Riosmena-Rodriguez et al. 1999: 404. Type of f. *elegans* housed by Foslie in the same box as the type of f. *complanata* (A23-1384). Box housing both types marked '*Lithoph. elegans* f. *angulata*, f. *complanata*'. The epithet '*angulata*' is a superfluous substitute name for the type form of the species, f. *elegans* (Woelkerling 1993: 27, 83). Unnumbered slide marked 'Hariot Nr. 2, Kalifornia [= California], *Lithoth. elegans*, Fosl.'. Adey & Lebednik 1967: 44 mistakenly list 'Hariot' as the collector and place the Gulf of California in the United States]; **TRH A23-1383**.

elegans, Lithophyllum (f. complanata) [originally described as *Lithothamnion elegans* f. *complanata* (Foslie 1895b: 6), then (Foslie 1900i: 20) transferred into *Lithophyllum* (explicitly mentioning the f. *complanata*), but subsequently not mentioned in Foslie's publications. Collection listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Holotype: TRH, A23-1384** (see below).

[Anon.]; [Mexico]; Kalifornia-Golfen [= Gulf of California]; [no habitat data]; [no date]; slide 433; [comm.] Hariot **[PC]** number 2; pfa: Printz 1929, pl. 63, fig. 2 [without mention of the *forma* name in the figure legend]; [Note: **Holotype** of *Lithothamnion elegans* f. *complanata* Foslie. Additional data — Woelkerling 1993: 55, and Riosmena-Rodriguez et al. 1999: 404. Type of f. *complanata* housed by Foslie in the same box as the type of f. *elegans* (A23-1383). Box housing both types marked '*Lithoph. elegans* f. *angulata*, f. *complanata*'. The epithet '*angulata*' is a superfluous substitute name for the type form of the species, f. *elegans* (Woelkerling 1993: 27, 83). Box also marked 'præp. [= slide] 433 af f. *compl.* [= of f. *complanata*]. Slide 433 marked 'Kalifornia [= California]' and 'Ex herb. mus. d'hist. nat. Paris **[PC]**' and 'Lgdns. af sammentr. og ngt. bøiet gren [= longitudinal section of compressed and somewhat bent branch]'. Adey & Lebednik 1967: 44 mistakenly list 'Hariot' as the collector and place the 'Gulf of California' in the United States]; **TRH A23-1384**.

fasciculatum, Lithophyllum [originally described as *Millepora fasciculata* (Lamarck 1816: 203), but subsequently (Eudes-Deslongchamps 124: 572) transferred without change in rank into *Nullipora*, then (Harvey 1847: pl. 74) into *Melobesia*, then (Kützing 1849: 699) into *Spongites*, then (Areschoug 1852: 522) into *Lithothamnion*, then (Foslie 1898b: 10) into *Lithophyllum*, where Foslie retained it in publication. Heydrich (in Chalon 1905: 206), however, reduced the species to the rank of form and transferred it into *Lithophyllum incrustans* (as *L. incrustans* f. *fasciculatum*) and then (Heydrich 1908: 62) transferred the species and form into *Hyperantherella* (as *H. incrustans* f. *fasciculata*) and after Foslie's death again (Heydrich 1911: 14) transferred the species and form into *Crodelia* (as *C. incrustans* f. *fasciculata*). **Lectotype: PC**, General Herbarium (Woelkerling 1998b: 266-272, Basso, Rodondl & Mari 2004: 218-222).

Foslie; Irland [= Republic of Ireland]; Roundstone, lok. 4 [= locality 4]; [no habitat data]; 15.iv.1899; slides 233-234; [no other collection data]; [no pfa]; [Note: grouped with one other collection of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1388), two collections of *Lithophyllum fasciculatum* f. *compressum* (A23-1392, A23-1393), one collection of *Lithophyllum fasciculatum* f. *divaricatum* (A23-1394), and two collections of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1395, A23-1387) under one entry in Adey & Lebednik 1967: 44. Additional material (identified as *Lithothamnion fasciculatum*) with same locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH A23-1386.**

Foslie; Irland [= Republic of Ireland]; Roundstone, lok. 3-4 [= locality 3-4]; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fasciculatum* f.']. Grouped with one other collection of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1386), two collections of *Lithophyllum fasciculatum* f. *compressum* (A23-1392, A23-1393), one collection of *Lithophyllum fasciculatum* f. *divaricatum* (A23-1394), and two collections of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1395, A23-1387) under one entry in Adey & Lebednik 1967: 44. Additional material (identified as *Lithothamnion fasciculatum*) with same locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH A23-1388.**

Hanna; Irland [= Republic of Ireland]; Fahy Bay, Ballynakill Harbour; collection depth: 1-1.5 fathoms; viii.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A23-1389.**

[Anon.]; Irland [= Republic of Ireland]; west coast, Roundstone; [no habitat data]; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 12, ex herb. Kew Gardens [**K**]; [no pfa]; [Note: box marked '*L. fasciculatum* ell [= or] *L. dentatum*'. Annotation slip in box marked 'Irland 12'. Adey & Lebednik 1967: 44 list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH A23-1385.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Brit. Mus. [**BM**] 1899, number 6; [no pfa]; [no notes]; **TRH A23-1390.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; slide 39; ex herb. Science & Art Mus. Dublin [**DBN**]; [no pfa]; [Note: slide 39 marked '*L. calcareum*' and 'Irland' and 'Sc. & Art Mus. 65']; **TRH A23-1391.**

fasciculatum, Lithophyllum (f. compressum) [originally described as *Lithophyllum fasciculatum* f. *compressum* (Foslie 1900a: 30, as f. *compressa*) but later (Foslie 1909b: 29) needlessly changed to *Lithophyllum fasciculatum* f. *complanatum* (as *complanata*). Collections listed in Adey & Lebednik 1967 44 under species without mention of forma]. **Lectotype: TRH, A23-1393** (see below).

Foslie; Irland [= Republic of Ireland]; Roundstone, lok. 3-4 [= locality 3-4]; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: **Isolectotype** of *Litho-*

phyllum fasciculatum f. *compressum* Foslie. **TRH** box marked '*L. fasciculatum* f. *complanata*', a superfluous name for *compressa*. Grouped with one other collection of *Lithophyllum fasciculatum* f. *compressum* (A23-1393), two collections of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1386, A23-1388), one collection of *Lithophyllum fasciculatum* f. *divaricatum* (A23-1394), and two collections of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1395, A23-1387) under one entry in Adey & Lebednik 1967: 44]; **TRH A23-1392**.

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 63, figs 9-10; [Note: **Lectotype** of *Lithophyllum fasciculatum* f. *compressum* Foslie. Additional data — Woelkerling 1993: 56 and Woelkerling 1998c: 311. During the present study, two boxes (A23-1392, A23-1393) of original material were found, and thus the designated type must be considered the lectotype rather than the holotype as indicated by Woelkerling (1993: 56), who at that time was aware of only one box. Grouped with one other collection of *Lithophyllum fasciculatum* f. *compressum* (A23-1392), two collections of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1386, A23-1388), one collection of *Lithophyllum fasciculatum* f. *divaricatum* (A23-1394), and two collections of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1395, A23-1387) under one entry in Adey & Lebednik 1967: 44]; **TRH A23-1393**.

fasciculatum, Lithophyllum (f. *divaricatum*) [originally described as *Lithophyllum fasciculatum* f. *divaricatum* (Foslie 1900a: 30, as f. *divaricata*) but later (Foslie 1909b: 29) needlessly changed to *L. fasciculatum* f. *divergens*. Additional data — Woelkerling 1993: 78, 79. Collection listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Holotype: TRH, A23-1394** (see below).

Foslie; Irland [= Republic of Ireland]; Roundstone, lok. 3-4 [= locality 3-4]; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 63, figs 7-8; [Note: **Holotype** of *Lithophyllum fasciculatum* f. *divaricatum* Foslie. Additional data — Woelkerling 1993: 78 and Woelkerling & Verheij 1995: 47. **TRH** box marked '*Lithoph. fasciculatum* f. *divergens*', a superfluous name for *divaricatum*. Grouped with two collections of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1386, A23-1388), two collections of *Lithophyllum fasciculatum* f. *compressum* (A23-1392, A23-1393), and two collections of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1395, A23-1387) under one entry in Adey & Lebednik 1967: 44. Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH A23-1394**.

fasciculatum, Lithophyllum (f. *divergens*). See listing above for **fasciculatum, Lithophyllum (f. *divaricata*)**. The epithet *divergens* is a superfluous substitute for *divaricata*. Additional data — Woelkerling 1993: 78, 79

fasciculatum, Lithophyllum (f. *incrassatum*) [originally described as *Lithophyllum fasciculatum* f. *incrassatum* (Foslie 1900a: 29, as f. *incrassata*) but subsequently (Foslie 1909b: 18) raised to the rank of species, namely *Lithophyllum incrassatum*. Names not updated on collections in Foslie herbarium, probably due to Foslie's death on 9.xi.1909. Collections listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Lectotype: TRH, A23-1396** (see below).

Foslie; Irland [= Republic of Ireland]; Roundstone, lok. 3-4 [= locality 3-4]; [no habitat data]; 15.iv.1899; slide 1147; [no other collection data]; pfa: Printz 1929, pl. 63, figs 5-6; [Note: box marked 'Største ekspl. præp. 1147 [= largest specimen slide 1147]'. Grouped with one other collection of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1387), two collections of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1386, A23-1388), two collections of *Lithophyllum fasciculatum* f. *compressum* (A23-1392, A23-1393), and one collection of *Lithophyllum fasciculatum* f. *divaricatum* (A23-1394) under one entry in Adey & Lebednik 1967: 44]; **TRH A23-1395**.

Foslie; Irland [= Republic of Ireland]; Roundstone, lok. 3-4 [= locality 3-4]; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fasciculatum* f. *subdistans* & *incrass.*'. The name '*f. subdistans*' is an unpublished herbarium name used only on this collection by Foslie. Box also marked 'Dbl. i gangsk. [= duplicates in corridor cabinet]' but no collection with this name occurs in the ancillary herbarium (see Chapter 5). Annotation slip in box contains locality data and is marked '*L. fascicul.* f. ~~*subdistans*~~ f. ~~*divaricata*~~ *divergens*, fotogr. [= photograph]'. There is no indication on the outside of the box, however, that Foslie regarded this collection to belong to f. *divaricatum* (*divergens* is a superfluous substitute name for *divaricatum* – see Woelkerling 1993: 79). Grouped with one other collection of *Lithophyllum fasciculatum* f. *incrassatum* (A23-1395), two collections of *Lithophyllum fasciculatum* (f. *fasciculatum*) (A23-1386, A23-1388), two collections of *Lithophyllum fasciculatum* f. *compressum* (A23-1392, A23-1393), and one collection of *Lithophyllum fasciculatum* f. *divaricatum* (A23-1394) under one entry in Adey & Lebednik 1967: 44]; **TRH A23-1387.**

M'Calla; Irland [= Republic of Ireland]; Galway, Roundstone Bay; [no habitat data]; [no date]; slide 42 and two slides numbered 43; [ex] Sc. & Art Mus. Dublin [**DBN**], number 75 'delvis [= in part]'; [no pfa]; [Note: **Lectotype** of *Lithophyllum fasciculatum* f. *incrassatum* Foslie. Additional data — Woelkerling 1993: 124. Largest original box contains two smaller original boxes labelled here as 'A' and 'B'. Box 'A' labelled with locality data and marked 'Præp. [= slide] Fuess 42' and 'Fotogr. [= photography]' and 'Konc. (?) [= conceptacles (?)]'. Box 'A' includes two still smaller original boxes, one marked '42 Fuess' and the other marked 'Tem. sikre koncept. [= conceptacles for certain]'. Box 'B' labelled with locality data and marked 'Præp. [= slide] Fuess 43' and 'Fotogr. [= photography]'. Box 'B' includes an annotation slip marked 'Ingen konc. [= without conceptacles]' and a very small round box marked '43 Fuess' with one fragment. Grouped with A23-1397 under one entry in Adey & Lebednik 1967: 44]; **TRH A23-1396.**

M'Calla; Irland [= Republic of Ireland]; Galway, Roundstone Bay; [no habitat data]; [no date]; slide 46; number 80 'delvis [= in part]', [ex] Sc. & Art Mus. Dublin [**DBN**]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]' and 'Fotogr. [= photography]' and 'Præp. [= slide] Fuess 46'. Grouped with A23-1396 under one entry in Adey & Lebednik 1967: 44]; **TRH A23-1397.**

gracile, *Lithophyllum* [originally described as *Lithophyllum gracile* (Foslie 1907b: 28), where Foslie retained it in publication]. **Holotype:** TRH, A23-1398 (see below).

Vanhöffen; Cap Verd. øer [= Cape Verde]; St. Vincent, Portogrande; [no habitat data]; ix.1901; slide 922; Gauss Expedition [= German South Polar Expedition 1901-1903]; pfa: Printz 1929, pl. 63, figs 28-29; [Note: **Holotype** of *Lithophyllum gracile* Foslie. Additional data — Woelkerling 1993: 108. Box marked 'Af tekst. fig. [= of text figure]. Slide 922 marked 'St. Vincent, Portogrande']; **TRH A23-1398.**

hibernicum, *Lithophyllum* [originally described as *Lithophyllum hibernicum* (Foslie 1906b: 24), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, A23-1399 (see below).

Hanna; Irland [= Republic of Ireland]; Fahy Bay, Ballynakill Harbour; collection depth: 1-1.5 fathoms; viii.1899; slide 1148; [no other collection data]; pfa: Printz 1929, pl. 63, figs 11-13; [Note: **Holotype** of *Lithophyllum hibernicum* Foslie. Additional data — Woelkerling 1993: 118. Original larger round box contains two smaller round boxes labelled with same information as larger box but one small box also marked '*Lithoph. fasciculatum* f. *subtilis* *Lithoph. hibernicum*']; **TRH A23-1399.**

peruviense, *Lithophyllum* [originally described as *Lithothamnion peruviense* (Heydrich 1901a: 545) but subsequently (Foslie 1909b: 28) transferred without change in rank into *Lithophyllum*]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 359).

Gaudichaud; Peru; Coquimbo; [no habitat data]; [no date]; slide 475; collection number 59, [ex] herb. Mus. Paris [**PC**]; [no pfa]; [Note: **Holotype fragments** of *Lithothamnion peruviense* Heydrich. Additional data — Woelkerling 1993: 170 and Woelkerling 1998c: 359. Box marked '*Lithoth.? peruviense* Heydr.' and '= *darwinii* Fosl.'. Annotation slip with collection marked 'Præp. [= slide] 475, *L. peruviense*' and 'NB. Ialf. tildels smaa dækceller [= NB. At least in part small cover cells (epithallial cells)]'. Collection includes two small boxes, each marked with similar information to that on larger original box]; **TRH A23-1400**.

platyphyllum, *Lithophyllum* [originally described as *Goniolithon platyphyllum* (Foslie 1899c: 13) but subsequently (Foslie 1900a: 26) transferred without change in rank into *Lithophyllum*]. **Holotype: TRH**, A23-1401 (see below).

[Cleve] [probably P.T. Cleve]; Vestindien [= West Indies], St. Martin [Island], nær [= near] Guadeloupe; [no other locality data]; [no habitat data]; [no date]; slides 434, 648 and one unnumbered slide; ex Bot. Mus. Stockholm [**S**]; pfa: Printz 1929, pl. 66, figs 8-9; [Note: **Holotype** of *Lithophyllum platyphyllum* Foslie. Additional data — Woelkerling 1993: 174. Box marked 'Præp. 434 og afk. mindste ekspl. [= slide 434 and decalcified smallest specimen]' and 'Præp. 648 største ekspl. [= slide 648 largest specimen]' and '*Lithoth Monogr.* Pl. LXVI fig. 40-44 8-9'. Drawer A23 contains an envelope marked '*L. platyphyllum*' and 'Hele ekspl. (forminsket) hvoraf dele [= whole specimens (reduced) part of which] pl. LXVI, figs 10-11'. The envelope houses four photos that probably show the two entire specimens Foslie received from **S**. Foslie broke off and kept the pieces now in A23-1401 (and shown in Printz 1929) and presumably. returned the remaining portions to **S**. The collection A23-1401 also includes two small boxes, both with fragments and both marked 'af mindste ekspl. [= of smallest specimen]'. Name of collector taken from protologue (Foslie 1899c: 13). St. Martin is one of the Leeward Islands, in turn a part of the Lesser Antilles, one of the three island groups comprising the West Indies, along with the Greater Antilles and the Bahamas]; **TRH A23-1401**.

proboscideum, *Lithophyllum* [originally described as *Lithothamnion proboscideum* (Foslie 1897b: 14) but subsequently (Foslie 1898b: 9) transferred without change in rank into *Goniolithon* and then (Foslie 1900h: 3) into *Lithophyllum*]. **Lectotype: TRH**, A23-1402 (see below).

Setchell; [United States]; California, Monterey; dredged; [no date]; slide 440; Setchell collection number 1084A; pfa: Printz 1929, pl. 63, figs 3-4; [Note: **Lectotype** of *Lithothamnion proboscideum* Foslie. Additional data — Woelkerling 1993: 176, who listed Setchell as the communicator rather than the collector]; **TRH A23-1402**.

Lithophyllum sp.

Saunders; [United States]; California, Pacific Grove; [no habitat data]; vii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithophyllum proboscideum* Fosl. (?)']; **TRH A23-1403**.

Case A, Drawer 24

claudescens, *Lithophyllum*. See listing below for *farlowii*, *Lithophyllum* Heydrich (non Foslie)

decussatum, *Lithophyllum* [originally described as *Millepora decussata* (Ellis & Solander 1786: 131), then (Philippi 1837: 389) transferred without change in rank into *Lithophyllum*, then (Endlicher 1843: 49) into *Melobesia*, then (Kützing 1849: 698) into *Spongites*. Subsequently (Foslie 1897b: 5) reduced to the rank of form and treated as *Lithothamnion agariciforme* f. *decussata*, then (Foslie 1900a: 33) re-elevated to species level as *Lithophyllum decussatum*, where Foslie subsequently retained it in publication (see Foslie 1909b: 22)]. **Type**: lost or missing (Dixon 1960, Woelkerling 1983b: 304-307, Woelkerling 1998c: 251-252).

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*Lithoph. decussatum* forma?.' and 'Af gl. samling (uden lok). Halvd. af ekspl., anden halvdel nærmer sig mere typiske form [= of old collection (without locality). Half of specimen, the other half is closer to typical form]'. Grouped with A24-1406 under one entry in Adey & Lebednik 1967: 44]; **TRH A24-1405**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*Lithoph. (decussatum?)* (nærmer sig [= close to] *dentatum*), af gammel saml. og s. med et andet næsten typisk *decuss.*? [= of old collection and mixed with an another almost typical *decuss.*?]' and 'uden lok. [= without locality]'. Box also marked '*L. dentatum?*'. Grouped with A24-1405 under one entry in Adey & Lebednik 1967: 44]; **TRH A24-1406**.

decussatum, *Lithophyllum* (f. *decumbens*) [originally described as *Lithophyllum decussatum* f. *decumbens* (Foslie 1900a: 33) and retained by Foslie in that genus and species. Collection listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Holotype**: divided between **BM**, algal box collection, and **TRH** (A24-1407) (Woelkerling 1993: 71).

[Anon.]; [France]; Corsica, Ile Rousse; [no habitat data]; iv.1895; slide 335; [ex] British Mus. [BM] (1899 number 5); pfa: Printz 1929, pl. 61, fig. 2; [Note: **Part of holotype** of *Lithophyllum decussatum* f. *decumbens* Foslie. Additional data — Woelkerling 1993: 71. Box marked '*Lithoph. decussatum* f. ~~*prostrata*~~ *decumbens*.'. Larger round box contains one fragment in a small round box marked '335'. Slide marked '*Lithophyllum decussatum* (Ell. & Sol.) Phil. f. *prostrata*' and 'Brit. Mus. no. 5. 1899' [BM]. Annotation slip in larger round box with locality and date is also marked '(*L. expansum?*) *L. decussatum* f. *prostrata*' and 'Ex herb. Brit. Mus. no. 5' and 'Største lgd. [= largest length] 12 cm' and 'Fotogr. [= photography]'. Collection also includes two photographs showing views of entire holotype. Top view also appears in Printz (1929, pl. 61, fig. 2). Note inconspicuous crack traversing specimen on left side. Smaller part of specimen to the left of the break is in **TRH** while the larger part to right is in **BM**]; **TRH A24-1407**.

decussatum, *Lithophyllum* (f. *insignis*) [originally described as *Lithophyllum decussatum* f. *insignis* (Foslie 1909b: 22) in the year of Foslie's death. Collection listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Holotype**: ostensibly divided between **BM** and **TRH** (A24-1408) (Woelkerling 1993: 127).

[Anon.]; the Mediterranean?; [no other locality data]; [no habitat data]; [no date]; slides 330-331; [ex] British Mus. [BM] (1899 number 1); pfa: Printz 1929, pl. 61, fig. 1; [Note: **Holo-**

type fragments of *Lithophyllum decussatum* f. *insignis* Foslie. Additional data — Woelkerling 1993: 127. Larger round box marked 'uden lok. + navn [= without locality + name]'. Slide 330 marked '*Lithophyllum decussatum* (Ell. & Sol.) Phil. f. *typica*' and 'Tversn. gren fra kanten indover [= cross-section, branch from edge inwards]' and 'Middelhavet? [= the Mediterranean?]' and 'Brit. Mus. no. 1, 1899'. Slide 331 marked '*Lithophyllum decussatum* (Ell. & Sol.) Phil. f. *typica*' and 'Tversn. af heftesk. [= cross-section of fastening slice]' and 'Middelhavet? [= the Mediterranean?]' and 'Brit. Mus. nr. 1, 1899'. Annotation slip in box marked '*Lith. expansum* Phil.' and 'Fotografi + brudst. [= photography + fragment]' and 'Ex herb. Brit. Mus. no. 1' [BM]. Larger round box includes one fragment in a small round box marked '*L. decussatum*' and 'Brit. Mus. 1899 n. 1' and 'Sp.? konc. [= sporangial? conceptacles]' and 'fotogr. [= photography]'. Collection also includes two photographs of the holotype (presumably in BM), one of which appears in Printz 1929, pl. 61, fig. 1]; **TRH A24-1408**.

decussatum, *Lithophyllum* (f. *planiuscula*) [originally described as *Lithophyllum decussatum* f. *planiuscula* (Foslie 1909b: 22) in the year of Foslie's death. Collection listed in Adey & Lebednik 1967: 44 under species without mention of forma]. **Holotype:** TRH, A24-1409 (see below).

Kuckuck; Marokko [= Morocco]; Tanger [= Tangier], nördlich der Stadt [= north of the city] eller nödr. Mont de Direction [= or north of Mount Direction]; collection depth: see Note; 14.vi.1901; slide 784; [no other collection data]; pfa: Printz 1929, pl. 61, figs 3-7; [Note: **Holotype** of *Lithophyllum decussatum* f. *planiuscula* Foslie. Additional data — Woelkerling 1993: 173. Box marked '*L. expansum* (og [= and] *L. philippii*) = *L. decussatum* f. *planiuscula*'. Collection depth is variously given as 12-15 metres, 15-20 metres and 17-33 metres]; **TRH A24-1409**.

dentatum, *Lithophyllum* [originally described as *Spongites dentata* (Kützing 1841: 33). Subsequently (Decaisne (1842b: 126) transferred without change in rank into *Melobesia*, then (Hauck 1883b: 273) into *Lithothamnion*, and then (Foslie 1898b: 10) into *Lithophyllum*, where it was retained by Foslie in subsequent publications (see Foslie 1909b: 24). Also reduced to the rank of form and treated as *Lithophyllum incrustans* f. *dentata* by Heydrich (1901a: 190), but this proposal not mentioned by Foslie in publication]. **Holotype:** L, 943.7-69 (Woelkerling 1985: 125-129, Woelkerling & Verheij 1995: 46).

Areschoug [but see Note]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slide 257; ex herb. Aresch. [S]; [no pfa]; [Note: box marked '*Melobesia decussata*' and '*Millepora* — Ell. & Sol. followed by 'Areschoug' and '= *L. dentatum*?'. Larger round box contains a fragment in a small round box marked '257'. Slide marked 'Uden lok. [= without locality]'. It is unclear whether Areschoug collected the material, as suggested in Adey & Lebednik 1967:45, who grouped this collection with A24-1411 under one entry]; **TRH A24-1410**.

Areschoug [but see Note]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slide 258; [no other collection data]; [no pfa]; [Note: box marked '*Melobesia agariciformis*' and '*Millepora* — Pall.' followed by 'Areschoug' and '= *L. dentatum*'. Larger round box contains two fragments in a small round box marked '258'. Slide marked 'Uden lok. [= without locality]'. It is unclear whether Areschoug collected the material, as suggested in Adey & Lebednik 1967:45, who grouped this collection with A24-1410 under one entry]; **TRH A24-1411**.

Chalon; [France]; Middelh. [= the Mediterranean], Port Vendres; [no habitat data]; iv.1900; [no slides]; [no other collection data]; [no pfa]; [Note: grouped together a collection of *L. dentatum* f. *echinii* (A24-1435) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1412**.

- Debray; [Algeria]; Algier, St. Eugène; [no habitat data]; 1899; [no slides]; Debray collection number 91; [no pfa]; [Note: box marked '*Lithoph. dentatum?* og [= and] *L. incrustans*'. Annotation slip in box marked 'Form som nærmer sig [= form close to] *fascic. – dent.*']; **TRH A24-1413.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15-17.iv.1899; [no slides]; box marked 'lok. 4a [= locality 4a]'; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with two collections of *L. dentatum* f. *aemulans* (A24-1428, A24-1429) and two collections of *L. dentatum* f. *gyrosa* (A24-1437, A24-1438) under one entry in Adey & Lebednik 1967: 45. Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH A24-1414.**
- Hauck; [Croatia]; Adr. havet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; [no date]; slide 48; ex herb Hauck [L]; [no pfa]; [Note: box marked 'Ekspl. [= specimen] Hauck (smaa brudst. [= small fragments])' and '2 større af andre ekspl. [= two larger of other specimens]'. Another annotation on box lid indicates that specimen most closely resembles that of Hauck 1883c, pl. 5, fig. 2. Annotation slip in box marked 'faa konc. [= few conceptacles]'. Slide marked 'Ex herb. Hauck']; **TRH A24-1415.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; 30.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithophyllum dentatum* f.'. Grouped with a collection of *Lithophyllum dentatum* f. *macallana* (A24-1441) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1416.**
- M'Calla; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; [no date]; slide 227; ex Sc. & Art Mus. Dublin [DBN], (1899); [no pfa]; [Note: larger original box contains a small original box marked '227' with one fragment. One accompanying annotation slip marked 'Præp. [= slide] 227, *L. dentatum*'. A second annotation slip marked 'f. *excav. macallana* overg. til [= grading into] f. *dentata*'. A third annotation slip marked 'Præp. [= slide] Anders. 227, *L. "agarici"*'. Grouped with one collection of *L. dentatum* (A24-1418), two collections of *L. dentatum* f. *gyrosa* (A24-1439, A24-1440), and two collections of *L. dentatum* f. *macallana* (A24-1442, A24-1443) under one entry in Adey & Lebednik 1967: 45, who mistakenly list '1899' as the collection date rather than the communication date. Adey & Lebednik (1967: 45) also indicated that 7 Roundstone boxes of M'Calla material occurred, but only 6 have been found]; **TRH A24-1417.**
- M'Calla; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; [no date]; [no slides]; ex Sc. & Art Mus. Dublin, [DBN] (1899); [no pfa]; [Note: box marked 'Stk. af 8x10 cm stort ekspl. næsten rundt, hult, indesl. ekspl. af Pictin [= piece of 8x10 cm large specimen almost round, hollow, enclosed specimen of Pictin]'. The word 'Pictin' is unclearly written and may be incorrect. Box lid marked '*L. dentatum*' but annotation slip in box marked 'Dette ekspl. er egentlig *gyrosa* – form, medens de øvrige *excav.* ekspl. staar nærmere *dilatata*, jfr. ekspl. [= this specimen is actual *gyrosa* – form, while the other *excav.* specimens is closer to *dilatata*, cf. specimens]' and '*L. decussatum dentatum* f. *excavata macall.*'. Grouped with one collection of *L. dentatum* (A24-1417), two collections of *L. dentatum* f. *gyrosa* (A24-1439, A24-1440), and two collections of *L. dentatum* f. *macallana* (A24-1442, A24-1443) under one entry in Adey & Lebednik 1967: 45, who mistakenly list '1899' as the collection date rather than the communication date. Adey & Lebednik (1967: 45) also indicated that 7 Roundstone boxes of M'Calla material occurred, but only 6 have been found]; **TRH A24-1418.**
- Schiller [probably Josef Schiller]; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; x.1908; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. dentatum* f.'. Grouped with a collection of *Lithophyllum dentatum* f. *macallana* (A24-1444) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1419.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 62, fig. 6; [Note: grouped with A24-1421 and a collection of f. *echini* (A24-1436) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1420.**

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; slide 1121; [no other collection data]; [no pfa]; [Note: slide marked '*Lithoph. dentatum*' and box marked '*Lithoph. dentatum* tildels med [= partly with] *L. incrust.* & *L. sonderi*' and 'Cyst. & anth. konc. [= cystocarpic & antheridial conceptacles]', but annotation slip with cell measurements for slide 1121 marked '*L. dentatum* f. *aemulans*'. Grouped with A24-1420 and a collection of f. *echini* (A24-1436) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1421.**

[Anon.]; Adria (?) [= Adriatic Sea (?)] [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. K.K. Naturhist. Hofmuseum Wien [W]; [no pfa]; [Note: box marked '*Lithoph. dentatum* (?) forma']; **TRH A24-1422.**

[Anon.]; Adria [= Adriatic Sea] [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. K.K. Naturh. Hofmuseum Wien [W]; [no pfa]; [Note: box marked '*Lithoph. decussatum* Aresch.' and '= *L. dentatum*'. Box also marked 'brudstk. [= fragments]']; **TRH A24-1423.**

[Anon.]; Marokko [= Morocco]; Tanger [= Tangier]; [no habitat data]; [no date]; [no slides]; Mus. d'Hist. Nat. Paris [PC], comm. Hariot 1905 number 1; [no pfa]; [Note: box marked '*Lithoph. dentatum* forma'. Annotation slip in box marked 'nr.1. This form somewhat differs from typically developed *L. dentatum*. It must however be referred to this species'. Adey & Lebednik 1967: 45 mistakenly list 'Hariot' as the collector and '1905' as the collection date]; **TRH A24-1424.**

[Anon.]; Irland [= Republic of Ireland]; off Schull; dredged; viii.1895; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number 63; [no pfa]; [Note: box marked '*L. fasciculatum dentatum* nærmest [= nearest] *dilatata*'. A fragment packed in a paper, which is marked 'af det fotograferede [= which is photographed]'. Grouped with A24-1426 and the type collection of *L. dentatum* f. *dilatata* (A24-1433) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1425.**

[Anon.]; Irland [= Republic of Ireland]; near Schull; dredged; ix.1895; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number 70; [no pfa]; [Note: box marked '*L. fasciculatum?* nærmest [= nearest] ~~*dilatata*~~' but filed with other collections of *L. dentatum* in Foslie's herbarium. Original sliding-lid box contains a small round box marked '*incrust.* koncept. [= conceptacles]'. Grouped with A24-1425 and the type collection of *L. dentatum* f. *dilatata* (A24-1433) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1426.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. [DBN], number 80 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. fasciculatum* eller [= or] *L. incrust.?* og [= and] *L. dentatum* Kütz. sammenv. [= coalesced]' and '?-Cyst. ell. anth. konc. [= ? cystocarpic or antheridial conceptacles]' and 'Sp. konc. [= sporangial conceptacles]'. Larger original box contains fragments in a small original, unnumbered box]; **TRH A24-1427.**

dentatum, Lithophyllum (f. aemulans) [originally described as *Lithophyllum dentatum* f. *aemulans* (Foslie 1900a: 32) and retained by Foslie in that genus and species. Collections listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Lectotype:** TRH, A24-1428 (see below).

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15-17.iv.1899; slide 1730; box marked 'lok. 4a [= locality 4a]'; [no pfa]; [Note: **Lectotype** of *Lithophyllum dentatum* f. *aemulans* Foslie. Additional data — Woelkerling 1993: 18 and Woelkerling 1998c: 309. Large original box also contains one specimen a smaller original box marked 'Præp. [= slide] 1730'. Slide marked 'ungt ekspl. [= young specimen]' and '15.04.1899'. Grouped with A24-1429, one collection of *L. dentatum* (A24-1414) and two collections of *L. dentatum* f. *gyrosa* (A24-1437, A24-1438) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1428.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; slide 1729; box marked 'lok. 4a [= locality 4a]'; pfa: Printz 1929, pl. 62, figs 1-5; [Note: box marked

'fig. 4'. Grouped with A24-1428, one collection of *L. dentatum* (A24-1414) and two collections of *L. dentatum* f. *gyrosa* (A24-1437, A24-1438) under one entry in Adey & Lebednik 1967: 45; **TRH A24-1429**.

Sauvageau; Spanien [= Spain]; Cadix; [no habitat data]; 28.iv.1903; [no slides]; comm. Sauvageau; pfa: Printz 1929, pl. 62, fig. 7; [Note: one annotation slip in box marked 'Ingen sporer [= without spores]'. Two other annotation slips with collection date are marked 'Herb C. Sauvageau' [PC] and 'Cadix (Espagne)']; **TRH A24-1430**.

dentatum, Lithophyllum (f. dilatata) [originally described as *Lithothamnion fasciculatum* f. *dilatata* (Foslie 1897b: 8) but subsequently (Foslie 1898b: 10) species and form transferred into *Lithophyllum* (as *Lithophyllum fasciculatum* f. *dentatum*) and then (Foslie 1900a: 32) the form transferred without change in rank into *Lithophyllum dentatum* (as *L. dentatum* f. *dilatata*), where it then was retained by Foslie. Collections listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Holotype: TRH, A24-1433** (see below).

M'Calla; Irland [= Republic of Ireland]; Roundstone Bay, Galway; [no habitat data]; [no date]; slide 49; [ex] Science & Art Mus. Dublin [DBN], number 72; [no pfa]; [Note: large round box marked '*L. fasciculatum* f. *dilatatum*' and 'mellomf. [= form between]. *excavata* – *dilatata*'. Collection includes a fragment in a small original box marked '49 Fuess' (refers to slide 49 made by Fuess & Co.). Accompanying annotation slip marked 'Ingen konc. [= without conceptacles]'. Adey & Lebednik 1967: 45 mistakenly list the collection number as 75 (for collection 75, see entries under *Lithophyllum dentatum* f. *gyrosa* and *Lithophyllum fasciculatum* f. *incrassata*). Box marked '*L. fasciculatum* f. *dilatata*'. Foslie (1900a: 32) treated *dilatata* as a forma of *L. dentatum*]; **TRH A24-1431**.

Sauvageau; Spanien [= Spain]; Gijon; [no habitat data]; ix.-x.1895; slide 50; [no other collection data]; [no pfa]; [Note: larger original box contains fragments in a smaller original box marked '50 Fuess' (slide 50 was made by Fuess & Co.). Larger original box contains one unmarked label and a label marked '*Lithothamnion incrustans* Phil. *dentatum* f. *dilatata*' and 'Sauvageau' and 'près de Gijon (Espagne) du 16 septembre au 5 octobre 1895'. Annotation slip in larger box marked '*L. fascie. dentatum* f. *dilatata* (nærmer sig m. *incrust.*) [= *L. fascie. dentatum* f. *dilatata* (approach *incrust.*)]' and 'Præp. Fuess 50. Brudst. i æsken af andet ekspl. som returneret. Dette ligner ell. stemmer omtr. overens med ekspl. fra Skull, Irland [= slide Fuess 50. Fragments in the box of another returned specimen. This looks like or is almost in accordance with specimen from Schull, Irland]']; **TRH A24-1432**.

[Anon.]; Irland [= Republic of Ireland]; Schull; [no habitat data]; ix.1895; slide 45; [ex] Science & Art Mus. Dublin [DBN], number 71; [no pfa]; [Note: **Holotype** of *Lithothamnion fasciculatum* f. *dilatata*. Additional data — Woelkerling 1993: 74, who mistakenly stated that Adey & Lebednik did not list the collection. Large round box marked 'Fotogr. [= photography]'. Collection consists of a large original round box and a small original round box housed in a newer brown box. Small box contains fragments and is marked '45 Fuess' (refers to slide 45, made by Fuess & Co.). Grouped with two Schull collections of *L. dentatum* (A24-1425, A24-1426) under one entry in Adey & Lebednik 1967: 45. Adey & Lebednik 1967: 45 mistakenly list slide 45 as a collection number]; **TRH A24-1433**.

[Anon.]; Irland [= Republic of Ireland]; Oyster banks near Skull [= Schull]; [no habitat data]; [no date]; slide 225; ex herb. Sc. & Art Mus. Dublin [DBN], (1899); pfa: Printz 1929, pl. 62, figs 10-11; [Note: box marked 'Største flade ekspl. præp. 225 [= largest thinnest specimen slide 225]' and 'Lithoth. Monogr. pl. 62, fig. 10-11 (største og mindst ekspl. [= largest and smallest specimen]'. Large round box contains fragments in a small box marked '225'. One annotation slip marked '*L. expan. decussatum* f. *dilatata*' and 'Oyster banks near Schull' and 'Største ekspl. return. ca 10x7 cm, mindste viser tendens antage *gyrosa* f. [= largest specimen returned ca 10x7 cm, smallest shows tendency to *gyrosa* f.]' and 'ex Sc. & Art Mus. Dublin'. Another annotation slip marked '*L. fasc. dilat.*' along with other

collection data. Adey & Lebednik 1967: 45 mistakenly list '1899' as the collection date]; **TRH A24-1434.**

dentatum, *Lithophyllum* (f. *echinii*) [originally described as *Lithophyllum dentatum* f. *echinii* (Chalon 1900: 27), but suggested by Foslie (1909b: 25 to represent a young example of *L. dentatum* f. *aemulans*. Collections listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Holotype:** presumably in **BR** (Chalon 1900: 27, Stafleu & Mennega 1997: 39) but requires confirmation.

Chalon; [France]; Middelh. [= the Mediterranean], Port Vendres; [no habitat data]; iv.1900; [no slides]; [no other collection data]; [no pfa]; [Note: **Probable type material** of *Lithophyllum dentatum* f. *echini* Chalon (1900: 27). Not included in Woelkerling 1993. Grouped with a collection of *L. dentatum* f. *dentatum* (A24-1412) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1435.**

Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with two collections of *L. dentatum* (f. *dentatum*) (A24-1420, A24-1421) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1436.**

dentatum, *Lithophyllum* (f. *gyrosa*) [originally described as *Lithothamnion fasciculatum* f. *gyrosa* (Foslie 1897b: 8) but subsequently (Foslie 1898b: 10) species and form transferred into *Lithophyllum* (as *Lithophyllum fasciculatum* f. *gyrosa*) and then (Foslie 1900a: 32) the form transferred without change in rank into *Lithophyllum dentatum* (as *L. dentatum* f. *gyrosa*), where it then was retained by Foslie. Collections listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Lectotype:** **TRH**, A24-1439 (see below).

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15-17.iv.1899; [no slides]; box marked 'lok. 4a [= locality 4a]'; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Original box lid apparently missing but photocopy of original lid is pasted to outside of the brown box housing the collection. Grouped with A24-1438, one collection of *L. dentatum* (A24-1414) and two collections of *L. dentatum* f. *aemulans* (A24-1428, A24-1429) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1437.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; slides 237-238; box marked 'lok. 4a [= locality 4a]'; pfa: Printz 1929, pl. 62, fig. 9; [Note: large round box contains fragments in a small box marked '237' (refers to slide 237). Slide 237 marked 'Snit af udelt blad [= cut of unparted blade]'. Slide 238 marked 'Snit af oventil delte blad [= cut above parted blade]'. Grouped with A24-1437, one collection of *L. dentatum* (A24-1414) and two collections of *L. dentatum* f. *aemulans* (A24-1428, A24-1429) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1438.**

M'Calla; Irland [= Republic of Ireland]; Roundstone Bay; [no habitat data]; [no date]; slide 47; [ex] Sc. & Art Mus. Dublin [**DBN**], number 80 'delvis [= in part]'; pfa: Printz 1929, pl. 62, fig. 8; [Note: **Lectotype** of *Lithothamnion fasciculatum* f. *gyrosa* Foslie. Additional data — Woelkerling 1993: 112. Foslie (1900a: 32) subsequently treated *gyrosa* as a forma of *L. dentatum*. Collection includes one fragment in one small box marked 'Fuess 47' (referring to slide 47, made by Fuess & Co.) and fragments in a second small box marked 'konc.? [= conceptacles?]'. Annotation slip in latter box marked 'Tømte Konc.? [= empty conceptacles?]'. Grouped with A24-1440, two M'Calla collections of *L. dentatum* (A24-1417, A24-1418), and two M'Calla collections of *L. dentatum* f. *macallana* (A24-1442, A24-1443) under one entry in Adey & Lebednik 1967: 45, who mistakenly list '1899' as the collection date rather than the communication date. Adey & Lebednik (1967: 45) also indicated that 7 Roundstone boxes of M'Calla material occurred, but only 6 have been found]; **TRH A24-1439.**

M'Calla; Irland [= Republic of Ireland]; Roundstone Bay; [no habitat data]; [no date]; [no slides]; ex Sc. & Art Mus. Dublin [**DBN**] [date of transfer not indicated], number 75 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. fasc. gyrosa*'. Foslie (1900a: 32) subsequently treated *gyrosa* as a forma of *L. dentatum*. Grouped with A24-1439, two M'Calla collections of *L. dentatum* (A24-1417, A24-1418), and two M'Calla collections of *L. dentatum* f. *macallana* (A24-1442, A24-1443) under one entry in Adey & Lebednik 1967: 45, who mistakenly list '1899' as the collection date rather than the communication date. Adey & Lebednik (1967: 45) also indicated that 7 Roundstone boxes of M'Calla material occurred, but only 6 have been found]; **TRH A24-1440**.

dentatum, Lithophyllum (f. macallana) [originally described as *Lithophyllum dentatum* f. *macallana* (Foslie 1900a: 32) and retained by Foslie in that genus and species. Collections listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Lectotype: TRH, A24-1442** (see below).

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; 30.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. dentatum* fere [= nearly] f. *macallana*'. Grouped with a collection of *Lithophyllum dentatum* f. *dentatum* (A24-1416) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1441**.

M'Calla; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; [no date]; slide 226; ex herb. Sc. & Art Mus. Dublin [**DBN**], (1899); pfa: Printz 1929, pl. 62, fig. 13; [Note: **Lectotype** of *Lithothamnion fasciculatum* f. *macallana* Foslie. Additional data — Woelkerling 1993: 140. Annotation slip in box marked '*L. "agaricif" decuss. f. macallana*'. Slide marked 'Snit fra kanten indover [= cut from edge inwards]'. Grouped with A24-1443, two M'Calla collections of *L. dentatum* (A24-1417, A24-1418), and two M'Calla collections of *L. dentatum* f. *gyrosa* (A24-1439, A24-1440) under one entry in Adey & Lebednik 1967: 45, who mistakenly list '1899' as the collection date rather than the communication date. Adey & Lebednik (1967: 45) also indicated that 7 Roundstone boxes of M'Calla material occurred, but only 6 have been found]; **TRH A24-1442**.

M'Calla; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; [no date]; [no slides]; ex Sc. & Art Mus. Dublin [**DBN**], (1899); [no pfa]; [Note: annotation slip in box has same information as occurs on box lid. Grouped with A24-1442, two M'Calla collections of *L. dentatum* (A24-1417, A24-1418), and two M'Calla collections of *L. dentatum* f. *gyrosa* (A24-1439, A24-1440) under one entry in Adey & Lebednik 1967: 45, who mistakenly list '1899' as the collection date rather than the communication date. Adey & Lebednik (1967: 45) also indicated that 7 Roundstone boxes of M'Calla material occurred, but only 6 have been found]; **TRH A24-1443**.

Schiller [probably Josef Schiller]; [Croatia]; Adriaterhavet [= Adriatic Sea], Cherso [now Cres]; [no habitat data]; x.1908; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 62, fig. 12; [Note: grouped with a collection of *Lithophyllum dentatum* f. *dentatum* (A24-1419) under one entry in Adey & Lebednik 1967: 45]; **TRH A24-1444**.

diguettii, Lithophyllum [originally described as *Lithothamnion diguettii* (Hariot 1895b: 168), then (Foslie 1900i: 18) suggested to be a synonym of *Lithophyllum dentatum*, then (Heydrich 1901a: 532) transferred as a distinct species into *Lithophyllum* (i.e. *Lithophyllum diguettii*), then (Foslie 1901d: 21) reduced to the rank of form and treated as *Lithophyllum dentatum* f. *diguettii*, and finally (Foslie 1909b: 26) re-elevated to species rank as *Lithophyllum diguettii*]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 340).

Diguett; [Mexico]; [Gulf of] California, Bay de La Paz; [no habitat data]; 1894; slide 661; [ex] herb. Mus. Paris [**PC**]; [no pfa]; [Note: **Isolectotype** of *Lithothamnion diguettii* Hariot. Additional data — Woelkerling 1998c: 340. Box marked *Lithophyllum diguettii* (Har.) Heydr.' and '*L. dentatum*'. Further box annotations refer to papers of Heydrich (1901a) and Foslie (1901d). Slide marked '*L. diguettii* Har. = *L. dentatum*']; **TRH A24-1446**.

Diguet; [Mexico]; Kalifornia Golfen [= Gulf of California]; [no habitat data]; [no date]; slide 44; [no other collection data]; pfa: Foslie 1895b, pl. 1 [unnumbered], fig. 15, and Printz 1929, pl. 61, fig. 8; [Note: **Isolectotype** of *Lithothamnion diguetii* Hariot. Additional data — Woelkerling 1998c: 340. Box marked '*L. dentatum*' and '= *Lithoph. diguetii* (Har.) Heydr.'. Larger round box contains a fragment in a smaller round box marked '44. Fuess' (refers to slide 44 made by Fuess & Co.). Slide marked '*Goniolithon dentatum* = *L. diguetii*' and 'ex herb. Mus. d'hist. Nat. Paris (Hariot)' **PC**] and 'Kalifornien [= California]' and 'Diguet'; **TRH A24-1445**.

farlowii, Lithophyllum Heydrich (non Foslie) [originally described as *Lithophyllum farlowii* (Heydrich 1901a: 532) (non *L. farlowii* Foslie 1901a: 12 — see entries in Drawer A3). Subsequently treated by Foslie (1901d: 22) as a heterotypic synonym of *Lithophyllum decussatum* and then (Foslie 1909b: 26) resurrected as a distinct species under the name *Lithophyllum claudescens* Heydrich (1901c: 420). *L. claudescens* was unnecessarily established by Heydrich as a new name (nom. nov.) for *L. farlowii* Heydrich (non Foslie), because Heydrich mistakenly thought his name *Lithophyllum farlowii* did not have priority over *Lithophyllum farlowii* Foslie. Additional information — Setchell & Mason 1943a: 95, Woelkerling 1993: 90-91 and Woelkerling 1998c: 310-311]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 311).

[Anon.]; Galapagos [Archipelago]; Charles Island; [no habitat data]; vi.1872; slide 663; Hassler Expedition, [ex] Herb. Mus. Paris **PC**], Heydrich number 15; [no pfa]; [Note: **Holotype fragments** of *Lithophyllum farlowii* Heydrich. Additional data — Woelkerling 1993: 90 (who mistakenly gives the collection date as 1892) and Woelkerling 1998c: 311. Box marked '*Lithophyllum farlowii* Heydr.' and '= *L. decussatum claudescens*'. Further box annotations refer to protologue (Heydrich 1901a) and a paper of Foslie (1901d). Slide marked with similar collection information and with 'Farlow 1889 no. 1' and 'Mus. d'hist. Nat. Paris nr. 15', suggesting that Farlow sent the material to **PC** in 1889 and Foslie then obtained the material from **PC**]; **TRH A24-1404**.

fasciculatum, *Lithothamnion* (f. *dilatata*). See listing above for **dentatum, Lithophyllum (f. dilatata)**

fasciculatum, *Lithothamnion* (f. *gyrosa*). See listing above for **dentatum, Lithophyllum (f. gyrosa)**

Case A, Drawer 25

During the present study, an envelope with a photograph that does not match material in any of the collections was found. The envelope has been retained in Drawer A25 and is marked 'The envelope contains a picture and a note that do not appear to belong to any of the *expansum* collections in the Foslie herbarium but probably was placed in Drawer A25 by Foslie.'

expansum, Lithophyllum [originally described as *Lithophyllum expansum* (Philippi 1837: 389). Subsequently (Endlicher 1843: 49) transferred without change in rank into *Melobesia*, then (Foslie 1895a: 205) into *Lithothamnion*, then (Foslie 1897b: 3) back into *Lithophyllum*, then (Kuntze 1898: 433) into *Tenarea*, then (Heydrich 1901a: 192) into *Hyperantherella*, and then (Heydrich 1904: 198) into *Stereophyllum*. After 1897, Foslie retained the species in *Lithophyllum*]. **Lectotype: L**, 943.7-84 (Woelkerling 1983b: 307, Woelkerling & Verheij 1995: 51).

- Bornet; [France]; Marseille; [no habitat data]; 1854; [no slides]; [ex Herb. Bornet (**PC**)]; [no pfa]; [Note: box marked 'Coll. & det. Bornet, *Lithoph. frondosum*, Dufour [= Dufour]' and 'Quadro [= Quadro] delle *Melob.* nr. 7, Marsielle, 1854' and '*L. expansum*'. The **PC** collection, from which the **TRH** collection originated, is listed by Lemoine (1912: LVIII) under *Lithophyllum expansum*. 'Dufour, Quadro delle *Melob.* nr. 7' refers to *Melobesia* species number 7 (identified as *Melobesia frondosa*) in a publication of Dufour (1861: 39). According to Lemoine (1912: LVIII), reference to the Dufour paper also occurs on the **PC** material. Adey & Lebednik 1967: 45 list collection as 'Bornet, France, Marseille, no. 7']; **TRH A25-1447**.
- Børghesen; [France]; Korsika [= Corsica], In sinu Ajaccionis [= Gulf of Ajaccio]; [no habitat data]; xi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box with locality data also marked 'Algæ marinæ Corsicanæ, det. M. F. [= Mikael Foslie], leg. F. Børghesen']; **TRH A25-1448**.
- Chalon; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]' and '(nær *incrustans*, men neppe form af denne [= close to *incrustans*, but hardly a form of this])']; **TRH A25-1449**.
- Debray; [Algeria]; Algier, Matifon Oragné; [no habitat data]; 22.iv.1890; [no slides]; Herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 4; [no pfa]; [Note: box also marked 'Debr. 1-19'. One annotation slip in box marked '*L. expansum*, Alger Matifon Oragné, 22.04.1890' and '4'. Another annotation slip in box marked 'Algier' and 'ingen sporer [= without spores]'. Original sliding-lid box contains a small round box marked 'Algier Debray, nr. 4, *L. expansum*' and 'Sp. konc. fotogr. [= sporangial conceptacles photographed]'. Grouped with four collections of *L. expansum* f. *exigua* (A25-1466, A25-1467, A25-1468, A25-1469) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1450**.
- Dufour; [Italy]; Genes [= Gênes]; 'sur la [= on] *Zostera*'; [no date]; [no slides]; ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked 'unge sp. konc.? [= young sporangial conceptacles]'. Adey & Lebednik 1967: 45 list collection as 'Bornet, France, Genes']; **TRH A25-1451**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola, vor [= at] Punta Christo; collection depth: 30-38 metres; 28.ix.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'nærmest f. *gen.* [= closest to f. *genuina*]' and 'koncept. [= conceptacles]'. Locality on box is numbered '4'). The name 'f. *genuina*' is superfluous for 'f. *expansum*'. Grouped with two Kuckuck collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1454) and nine Kuckuck collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1453**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola, östl. [= east towards] Sorelle Grande; collection depth: 12-15 metres, 'paa [= on] *Cystoseira*'; 10.i.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 60, fig. 8; [Note: box marked 'koncept. [= conceptacles]'. Locality on box is numbered '3'). Grouped with two Kuckuck collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453) and nine Kuckuck collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1454**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], zwischen [= between] Punta Christo und [= and] Girolamo; collection depth: 25-30 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. expansum* f. *typica*'. The name 'f. *typica*' is superfluous for 'f. *expansum*'. One annotation slip in box marked 'ingen sporer [= without spores]'. Another annotation slip in box contains collection depth data and more detailed locality data than is on box lid, and also is marked '*L. expansum* f. *genuina*' and '6') [almost certainly Kuckuck's number for the locality]. The name 'f. *genuina*' is another superfluous name for 'f. *expansum*'. Grouped with two Kuckuck collections of *L. expansum* (f. *expansum*) (A25-1453, A25-1454) and

- nine Kuckuck collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1452**.
- Munier-Chalmas; Algeria; La Calle; [no habitat data]; [no date]; [no slides]; ex herb. Thur. – Born. [PC]; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles]'. Collector and detailed locality not listed in Adey & Lebednik 1967: 45]; **TRH A25-1456**.
- Rosenvinge; Frankrig [= France]; Antibes; [no habitat data]; 10.i.1885; [no slides]; ex herb. Bot. Mus. Kbhavn [C], Rosenvinge collection number 443; [no pfa]; [Note: Adey & Lebednik 1967: 45 mistakenly list 443 as a slide]; **TRH A25-1457**.
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer, Cap l'Abeille; collection depth: dredged at 40 metres; 15.i.1907; slide 1329; [no other collection data]; [no pfa]; [Note: some locality and collection data on a slip in box with the printed text 'Université de Paris, laboratoire Arago, Banyuls-sur-Mer (Pyr.-Orientales)'. A second annotation slip marked 'Præp. 1329 af største ekspl. ved x [= slide 1329 of largest specimen at x]' and 'Præparerer mikr. [= prepare microscope] E. Leitz. Wetzlar']; **TRH A25-1458**.
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer, labor. Arago [= at the Laboratory at Arago]; [no habitat data]; i.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'første dage janur 1906, udtaget 15.6.1906 [= collected in the first days of January 1906, picked out 15.6.1906]']; **TRH A25-1459**.
- Vickers; Frankrige [= France]; Antibes; [no habitat data]; 1904; slide 1728; [no other collection data]; pfa: Printz 1929, pl. 60, fig. 1; [Note: box marked '*Lithoph. expansum* f. *typica*']; **TRH A25-1460**.
- Vickers; Italy; Naples; [no habitat data]; 1900; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 60, figs 2-3; [Note: box marked '*Lithoph. expansum* f. *typica*'. Annotation slip in box marked 'Naples, Italy']; **TRH A25-1461**.
- [Anon.]; [France]; Antibes; [no habitat data]; 5.ii.1869; [no slides]; ex herb. Thuret – Bornet [PC]; [no pfa]; [Note: box marked '*L. agariciforme* = *L. expansum* f.' and 'cyst.? konc. [= cystocarpic? conceptacles]']; **TRH A25-1462**.
- [Anon.]; [Italy]; Naples; [no habitat data]; [no date]; slide 1328 and one unnumbered slide; comm. Zool. Station, 1896; [no pfa]; [Note: it is unclear whether the specimen was collected in 1896 or sent to Foslie in 1896 or both. Box marked '*Lithoph. expansum* f. *typica* & *stictaeformis*'. One annotation slip in box marked '*Lithoth. (Lithoph.) expansum* var. *stictaeformis*' and 'Neapel' and 'Zool. Station'. Another annotation slip in box marked 'Største ekspl. i smalere del med koncept. [= largest specimen with conceptacles in thinner part]'. Collection includes one fragment in a small box marked '1328']; **TRH A25-1463**.
- [Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot vi.1906, number 7 [material almost certainly sent from PC]; [no pfa]; [Note: box marked 'Konc. [= conceptacles]'. Grouped with two collections of *L. expansum* f. *stictaeformis* (A25-1489, A25-1490) under one entry in Adey & Lebednik 1967: 46, who mistakenly list 'Hariot' as the collector and '1906' as the collection date]; **TRH A25-1464**.
- [Anon.]; [Spain]; [see note for additional information on locality]; [no habitat data]; [see note for collection date]; [no slides]; [see note for collection depth], comm. Pruvot-Chalon; [no pfa]; [Note: two alternative sets of collection data given on box — Cote de Catalogne, viii.1902, collection depth: 1 metres 'og [= and]' Ile Baleares [= Balearic Islands], 28.vii.1904, collection depth 75 metres. Box marked '*Lithoph. expansum* f. *genuina*' and 'Brudst., konc. [= fragments, conceptacles]'. The name 'f. *genuina*' is superfluous for 'f. *expansum*']; **TRH A25-1465**.

expansum, *Lithophyllum* (f. *exigua*) [originally described as *Lithothamnion expansum* f. *exigua* (Foslie 1897b: 3), but then (Foslie 1898b: 10) species and form transferred into *Lithophyllum* (as *Lithophyllum expansum* f. *exigua*). Foslie (1909b: 21) finally considered *Lithophyllum expansum* f. *exigua* to be a heterotypic synonym of *Lithophyllum expansum* f. *involvens* Vanessa. Names on boxes not updated from f. *exigua* to f. *involvens*, proba-

bly due to Foslie's death on 9.xi.1909. Collections listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Holotype:** TRH, A25-1466 (see below).

- Debray; [Algeria]; Algier, Baie de Sidi Ferruch; [no habitat data]; 10.v.1888; [no slides]; [herb.] Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 5; pfa: Printz 1929, pl. 60, fig. 10; [Note: **Holotype** of *Lithothamnion expansum* f. *exigua* Foslie. Additional data — Woelkerling 1993: 88. Box also marked '*Lith. agariciforme* Debr.' and '= *Lithoph. expansum* f. *exigua*'. Grouped with A25-1467, A25-1468 and A25-1469 and one collection of *L. expansum* (f. *expansum*) (A25-1450) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1466.**
- Debray; [Algeria]; Algier, St. Eugène, Ile Finier; 'sur [= on] *Rytiphlaea pinastroides*'; 1888; [no slides]; [herb.] Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 50; pfa: Printz 1929, pl. 60, fig. 9; [Note: host and locality data on annotation slip in box. Grouped with A25-1466, A25-1468 and A25-1469) and one collection of *L. expansum* (f. *expansum*) (A25-1450) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1467.**
- Debray; [Algeria]; Algier; [no habitat data]; 4.vii.1891; [no slides]; [herb.] Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 86; [no pfa]; [Note: grouped with A25-1466, A25-1467 and A25-1469 and one collection of *L. expansum* (f. *expansum*) (A25-1450) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1468.**
- Debray; [Algeria]; Algier [= Algiers]; 'paa [= on] *Cystoseira crinita*'; 26.v.1890; [no slides]; ex herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 120; pfa: Printz 1929, pl. 60, fig. 11; [Note: grouped with A25-1466, A25-1467 and A25-1468) and one of *L. expansum* (f. *expansum*) (A25-1450) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1469.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], zwischen [= between] Punta Barabiga u. [= and] Figarole; collection depth: '10-12 metres, an *Cystosira* [= on *Cystoseira*']; 20.v.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 60, fig. 7 [as f. *involvens*]; [Note: box lid marked '*L. expansum* f.' and 'koncept. [= conceptacles]'. Locality on box is numbered '2'. Bottom of box marked '*L. expansum* f. *exigua*, Lith. Mon. pl. 60, f. 7 [= Printz 1929, pl. 60, fig. 7]' and 'anth. konc. [= antheridial conceptacles]'. Grouped with four *L. expansum* f. *stictaeformis* (A25-1480, A25-1481, A25-1482, A25-1483) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1455.**

expansum, *Lithophyllum* (f. *foliacea*) [originally described as *Lithothamnion expansum* f. *foliacea* (Foslie 1897b: 3) but later (Foslie 1898b: 10) species and form transferred into *Lithophyllum* (as *Lithophyllum expansum* f. *foliacea*), and subsequently retained in that genus and species by Foslie. Collection listed in Adey & Lebednik 1967: 45 under species without mention of forma]. **Type:** not designated but based on specimens that Hauck (1883: pl. 4, fig. 2) called *Lithophyllum expansum* β *agariciforme* (Woelkerling 1993: 96, Woelkerling 1998c: 344).

Rodriguez; [Spain]; Baleares [= Balearic Islands], Menorca; [no habitat data]; vi.1889; [no slides]; ex herb. Bornet [**PC**]; [no pfa]; [Note: see comments on this collection in Woelkerling 1993: 96 and Woelkerling 1998c: 344]; **TRH A25-1470.**

expansum, *Lithophyllum* (f. *involvens*)

See listing above for **expansum, *Lithophyllum* (f. *exigua*)**

expansum, *Lithophyllum* (f. *repens*) [originally described as *Lithothamnion expansum* f. *repens* (Foslie 1897b: 4) but later (Foslie 1898b: 10) species and form transferred into *Lithophyllum* (as *Lithophyllum expansum* f. *repens*), and subsequently retained in that genus and species by Foslie. Collection not included in Adey & Lebednik 1967]. **Lectotype (designated here):** TRH, A25-3877 (see below).

Flahault; [France]; Golfe du Lion, Cap Veyrefite, près [= near] Banyuls-sur-Mer; collection depth: 'par [= about] 35 metres; 27.x.1893; [no slides]; Flahault collection 261; [no pfa]; [Note: **Lectotype** of *Lithothamnion expansum* f. *repens*. Lectotype designated here by Wm J. Woelkerling. Additional data — Woelkerling 1993: 189. Collection consists of specimens on one stone marked 'No. 261' and housed in a metal cigarette box. Box marked '*L. expansum* f. *repens* Fosl.' and 'Flahault nr. 261', and '191, 252, 254, 277, 232, 255, 256, 261'. 'Herb. C. Flahault' printed on one annotation slip in box that is also marked by hand with collection and habitat data and the number '261'. Second annotation slip in box marked '*L. expansum* f. ~~*foliaceum*~~ *repens*' and 'Peysson. *polym.*'. Collection rediscovered during present study. Collection not included in Adey & Lebednik 1967]; **TRH A25-3877**.

expansum, *Lithophyllum* (f. *stictaeformis*) [originally described as *Melobesia stictaeformis* (Areschoug 1852: 517)] but subsequently (Foslie 1900i: 18) transferred into *Lithophyllum*, reduced to the rank of form and treated as *Lithophyllum expansum* f. *stictaeformis*. Collections listed in Adey & Lebednik 1967: 45-46 under *Lithophyllum expansum* without mention of forma]. **Lectotype: S**, unnumbered (Athanasiadis 2000: 736, as *Lithophyllum stictaeforme*).

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], see Note for further data; see Note for habitat data; 11.vi.1895 and 6.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box contains unmarked specimens from two localities and dates that cannot be separated into distinct collections. One annotation slip in box marked '11.6.1895, *Lithoph. expansum* f. *stictaeformis*, Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], zwischen [= between] Toranda und [= and] Gaza, 16-25 meters, Coll. Dr. Kuckuck' and marked '15' [almost certainly a locality number]. A second annotation slip in box marked '6.11.1899, Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], Punta St. Eufemia (or Eufernia, difficult to see), Coll. Dr. Kuckuck, *Lithoph. expansum* f. *stictaeformis*'. Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1472, A25-1473, A25-1474, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1471**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands]; [no habitat data]; 'Herbst [= autumn] 1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1473, A25-1474, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1472**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], höhe von spitze [= high point of] Barbana, richtung auf [= in direction of] Bank Gronghera; collection depth: 30-37 metres; 11.vi.1895; slide 603; [no other collection data]; [no pfa]; [Note: box marked 'præp. 603 af største ekspl. [= slide 603 of largest specimen]'. Locality on box is numbered '2'). Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-1476, A25-1477, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1478**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], höhe von spitze [= high point of] Barbana, richtung auf [= in direction of] Bank Gronghera; collection depth: 30-37 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]' and '*L. expansum* (væsentl. [= mainly] f. *stictaeformis*)'. Locality on box is numbered '2'). Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-

- 1476, A25-1477, A25-1478) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1479.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], westl. nahe bei [= westerly near to] Eil. Gaza; collection depth: 25-30 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Locality on box is numbered '1b']. Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1474, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1473.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwischen [= between] 'Klein Asino' und [= and] St. Andrea; collection depth: 23-30 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '3']. Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1475, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1474.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], vor [= at] Montauro; collection depth: 30-32 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Annotation slip in box marked 'ingen sporer [= without spores]'. Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1476, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1475.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], bei [= at] Pola; [no habitat data]; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. expansum* f. *stictaeformis* (& *Lith. fruticosum*)' and 'if. Katalogen [= cf. catalogue]'. Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-1477, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1476.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands], østl. vor [= east of] St. Andrea; collection depth: 33 metres; 10.i.1897; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]' and very faintly 'Afk. præp. [= decalcified slide]'. Locality on box is numbered '1'). One annotation slip in box marked 'Afk. præp. af mindste ekspl. [= decalcified slide of smallest specimen]'. Another annotation slip in box marked 'Ingen sporer [= without spores]'. Slide marked with name, locality information and with '2% salp., 10% alk. [= 2% salpetre, 10% alkaline]'. Grouped with three collections of *L. expansum* (f. *expansum*) (A25-1452, A25-1453, A25-1454) and eight other collections of *L. expansum* f. *stictaeformis* (A25-1471, A25-1472, A25-1473, A25-1474, A25-1475, A25-1476, A25-1478, A25-1479) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1477.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], nordwestl. sehn nahe bei [= northwesterly very close to] Bagnah [Island]; collection depth: 20-30 metres; 1.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '2']. Grouped with three other collections of *L. expansum* f. *stictaeformis* (A25-1481, A25-1482, A25-1483) and a collection of *L. expansum* f. *exigua* (A25-1455) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1480.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Grouped with three other collections of *L. expansum* f. *stictaeformis* (A25-1480, A25-1482, A25-1483) and a collection of *L. expansum* f. *exigua* (A25-1455) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1481.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Hafen. - Molo; [no habitat data]; 15.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: locality on

box is numbered '1'). One annotation slip in box marked 'koncept. [= conceptacles]'. A second annotation slip in box marked 'ingen sporer [= without spores]'. Grouped with three other collections of *L. expansum* f. *stictaeformis* (A25-1480, A25-1481, A25-1482) and a collection of *L. expansum* f. *exigua* (A25-1455) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1483.**

[Kuckuck]; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], nahe bei [= near to] St. Catarina; collection depth: 25 metres; 6.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box has collection date and also is marked '1']. Kuckuck is presumed to be the collector because all information on box and annotation slip is in his handwriting]; **TRH A25-1488.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], vor [= at] St. Catarina; collection depth: 20-27 metres; 25.xi.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Locality on box is numbered '2']. Annotation slip in box marked 'Afk. præp. mindste ekspl. [= decalcified slide (from) smallest specimen]'. Grouped with three other collections of *L. expansum* f. *stictaeformis* (A25-1480, A25-1481, A25-1483) and a collection of *L. expansum* f. *exigua* (A25-1455) under one entry in Adey & Lebednik 1967: 45]; **TRH A25-1482.**

Kuckuck; Phoenicia [now Lebanon]; Beirut; collection depth: 15-20 metres; 19.iii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A25-1484.**

Lichtenstern; [Croatia]; Adria [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 28 metres; [no date]; one unnumbered slide; ex herb. Bot. Mus. Wien [W]; pfa: Printz 1929, pl. 60, fig. 5; [Note: box marked '*Lithoth. agariciforme* Aresch' and '*Lithoph. expansum* f. *stictaeformis*' but annotation slip in box marked '*Lithoph. agaricif. Aresch. = L. expans. f. foliacea*'. Box also marked, in part unclearly, 'Afk. præp. største ekspl., største ekspl. sp. konc.,, anth. konc. (?) [= decalcified slide (from) largest specimen, largest specimen sporangial conceptacles,, antheridial conceptacles (?)]' [some words unclear]. Collector's family name on box and slide written as 'Lichtenstein']; **TRH A25-1485.**

Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 60, fig. 6; [no notes]; **TRH A25-1486.**

Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: collection either not included in Adey & Lebednik 1967 or included without indication in the preceding entry]; **TRH A25-1487.**

[Anon.]; Monaco; Middelhavet [= the Mediterranean], [no other locality data]; [no habitat data]; [no date]; slide 1035; comm. Hariot 1906, number 4 [material almost certainly sent from PC]; [no pfa]; [Note: grouped with A25-1490 and a collection of *L. expansum* (A25-1464) under one entry in Adey & Lebednik 1967: 46, who mistakenly list 'Hariot' as the collector and '1906' as the collection date]; **TRH A25-1489.**

[Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot 1907, number 7, Mus. d'hist. Nat. Paris [PC]; [no pfa]; [Note: grouped with A25-1489 and a collection of *L. expansum* (A25-1464) under one entry in Adey & Lebednik 1967: 46, who mistakenly list 'Hariot' as the collector and '1907' as the collection date]; **TRH A25-1490.**

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Aresch. [S]; pfa: Printz 1929, pl. 60, fig. 4; [Note: **Isolectotype** of *Melobesia stictaeformis* Areschoug. Additional data — Woelkerling 1993: 207, updated by Athanasiadis 2000: 736-737. Box marked '*Melobesia stictaeformis* Aresch.' and '*Lithoph. expansum* f. *stictaeformis*'. Annotation slip in box marked '*Melobesia stictaeformis* Aresch, ex herb. Aresch.' and 'Ekspl. hvortil etiketten heftet, ligner næsten fuldst. *Melob. expansa* β *agariciforme* Hauck. fig. 2 [= specimen where the label is fastened, looks almost entirely like *Melob. exp. β agaricif. Hauck. fig. 2]*' and 'De fleste ekspl. tilh.

hovedf., bør nok med Hauck anse *stictæf.* tilh. denne [= most of the specimens belong to the main form, should by Hauck be considered to be *stictæformis*]; **TRH A25-1491.**

grandiuscula, Melobesia [originally described as *Melobesia grandiuscula* (Montagne 1846: 138) but considered by Foslie (1905c: 119) to be a heterotypic synonym of *Lithophyllum pustulatum*]. **Lectotype: PC**, General Herbarium (Woelkerling, Penrose & Chamberlain 1993: 324, Woelkerling 1998c: 321)

[Anon.]; [Algeria]; Algier; [no habitat data]; [no date]; slide 1656; herb. Montagne, ex herb. Mus. Paris [**PC**] vi.1908; [no pfa]; [Note: **Lectotype fragments** of *Melobesia grandiuscula* Montagne. Additional data — Woelkerling 1993: 111, updated by Woelkerling 1998c: 373. Box annotated that material 'a' is 'paa [= on] *Phyllophora* = *L. expansum* f. *exigua*' and material 'b' is 'paa-? [= on an unknown host] = *L. expansum* f. *nærmer sig* [= approach] *incrustans*'. Two smaller round boxes, respectively marked 'a' and 'b' are present in the original larger round box. Collection listed under *Lithophyllum expansum* in Adey & Lebednik 1967: 46]; **TRH A25-1492.**

Case A, Drawer 26

During the present study, some loose notes were found in Drawer A26 that could not be linked to any particular collection. These now have been placed in an unnumbered envelope labelled 'Loose notes found in Drawer A26'.

onkodes, Lithophyllum [originally described as *Lithothamnion onkodes* (Heydrich 1897b: 6), but subsequently (Foslie 1898b: 8) transferred without change in rank into *Gonolithon*, then (Heydrich 1901a: 533) into *Lithophyllum*, and then (Foslie 1909b: 57) into *Porolithon*. Names on boxes not updated from *Lithophyllum* to *Porolithon*, probably due to Foslie's death on 9.xi.1909. Penrose & Woelkerling 1988: 161, 162, 164-166 provide information on the type. The nomenclaturally correct spelling of the specific epithet is '*onkodes*', but Foslie and a number of other authors sometimes used the nomenclaturally incorrect variant '*oncodes*', and this variant appears on some collections in the Foslie herbarium]. **Lectotype: TRH, A26-1494** (see below).

Agassiz; Mauritius; [no other locality data]; [no habitat data]; [no date]; slide 659; ex Mus. d'hist. Nat. Paris [**PC**]; [no pfa]; [Note: box marked '*L. onkodes* Heydr (*Lith.* Mus. Paris)']; **TRH A26-1493.**

[Bamler]; Neu Guinea [= Papua New Guinea]; Bismarck Archipelago, Tami [Island]; [no habitat data]; [iii.1892]; slide 62 and two slides prepared more recently by G. Maneveldt and two further recently prepared slides; box marked 'F. Heydrich N. 97'; [no pfa]; [Note: **Lectotype** of *Lithothamnion onkodes* Heydrich. Additional data — Penrose & Woelkerling 1988: 162-166, Woelkerling 1993: 164 and Woelkerling 1998c: 357. Box marked '*Lithoph. lenormandi* oder nov. sp.? = *L. oncodes*' and '11, 12, 59, 60, 1, 80, 97' (apparently a series of numbers assigned by Heydrich). Information on collector and collection date not on box but taken from Heydrich (1897b). One annotation slip in box marked 'Mere regelmæssige celler end typen fra Tami [= more regular cells than the type from Tami]' and '(Heydr. nr. 97)'. Newer slides in a cardboard slide holder marked 'Slides prepared by Gavin W. Maneveldt, Univ. of Western Cape, South Africa' and 'Arrived at **TRH** April 2002']; **TRH A26-1494.**

Cleveland; [United States]; California, San Diego; [no habitat data]; 1876; slide 489; ex herb. W.G. Farlow [**FH**] 1900, number XVI; [no pfa]; [Note: box marked '*Lithoph. oncodes*'.

- Adey & Lebednik 1967: 46 mistakenly list 'Farlow' as the collector and '1900' as the collection date]; **TRH A26-1495.**
- Gardiner; Chagos Archipelago; Egmont [Atoll], Lagoon Shoal; 'paa koral [= on coral]'; vi.1905; slide 1308; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. onkodes forma* (?)'. Annotation slip in box marked 'Større perith. cell. og grupp. av cell. større end hos typen [= larger perithallial cells and group of cells larger than the type]']; **TRH A26-1497.**
- Gardiner; Chagos Archipelago; Egmont Atoll; [collected on] reef; vi.1906; slide 1300; [no other collection data]; pfa: Printz 1929, pl. 67, fig. 3; [no notes]; **TRH A26-1496.**
- Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; collection depth: 10-14 fathoms; vi.1905; slide 1320; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. onkodes* & liden sk. *Gon. sp.* [= small crust of *Goniolithon sp.*]' and 'præp. 1320 stk. x anth. konc.? [= slide 1320 piece x antheridial conceptacles?']. Grouped with A26-1498 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1499.**
- Gardiner; Chagos Archipelago; Salomon Atoll; [no habitat data]; vi.1906; slide 1311; [no other collection data]; pfa: Printz 1929, pl. 67, fig. 4; [Note: box marked '*Lithoph. oncodes*' and 'Analyse nr. 25'. Annotation slip in box contains same collection information and collection date as that on box lid, but slide 1311 lists collection date as 'vi.1905' (probably an error). Collection includes a small box (inside large original box) marked 'Salomon Isl. = anal. 25 = præp. [= slide] 1311, store ekspl. [= large specimen]'. Grouped with A26-1499 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1498.**
- Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Coetivy [Island], west reef; [no habitat data]; ix.1905; slide 1292; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Præp. 1292 af store ekspl. ved x [= slide 1292 of large specimen at x]']; **TRH A26-1500.**
- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; 26.vii.1899; slide 762; comm. Stanley Gardiner; [no pfa]; [Note: box marked 'Præp. 762 ekspl. mk. x [= slide 762 specimen marked x]'. Locality name incorrectly spelled 'Minkoi' on box and 'Minoko' on an annotation slip which is marked 'no. 6' and '26.7.1899' and 'Minoko'. Slide marked 'leg. Stanley Gardiner'. Grouped with A26-1502 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1501.**
- Gardiner; Laccadive Islands; Minikoi Atoll [now Minicoy Island]; [no habitat data]; vii.1899; slide 766; comm. Stanley Gardiner; [no pfa]; [Note: annotation slip in box marked 'Cell. som hos typen [= cells like those the type]'. Slide marked 'leg. Stanley Gardiner'. Grouped with A26-1501 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1502.**
- Gardiner; Malediverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 742; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*L. oncodes f. (?)*'. Large round box contains fragments in a small round box marked '742'. Slide marked 'leg. Stanley Gardiner' and '*L. onkodes f. Heydr.*'. Grouped with A26-1504 and A26-1505 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1503.**
- Gardiner; Malediverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; two slides numbered 743; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*Lithoph. oncodes*'. Both slides marked 'leg. Stanley Gardiner' and '*L. onkodes Heydr.*'. Annotation slip in box marked 'Cell. som hos typen [= cells as the type]'. Grouped with A26-1503 and A26-1505 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1504.**
- Gardiner; Malediverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 757; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*L. onkodes?* jfr. [= cf.] *craspedium*' and marked 'Præp. 757 mk. x [= slide 757 marked x]', 'x' meaning the spot from which the sample was taken for slide preparation. Slide marked 'leg. Stanley Gardiner'. Grouped with A26-1503 and A26-1504 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1505.**
- Jadin; Mauritius; [no other locality data]; [no habitat data]; viii.1890; slide 37; [Jadin collection number] 559; [no pfa]; [Note: box marked '*Lithoph. oncodes* og [= and] *Gon. reinboldii*' and 'Brudst. af sidste blandt denne art i saml. [= fragment of last species in this collec-

- tion]'. Annotation slip in box marked 'Cell. som hos typen [= cells as the type]'. Slide marked '*Lithoph. Goniolithon? onkodes* (Heydr.) og [= and] Reinb.'. The Jadin collection of '*Goniolithon reinboldii*' is in Drawer A14 (A14-769); **TRH A26-1506.**
- Schimper; Chagos Ins [= Chagos Islands]; Diego Garcia; [no habitat data]; [no date]; slide 902; Exp. *Valdivia* [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box and slide marked '*Lithoph. oncodes*'. Annotation slip in box marked 'Cell. som typen, men mere regelm. [= cells as the type, but more regularly]'. Grouped with A26-1508 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1507.**
- Schimper; Chagos øerne [= Chagos Islands]; Diego Garcia; [no habitat data]; [no date]; slide 904; Tyske Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box and slide marked '*Lithoph. oncodes*'. Annotation slip in box marked 'Cell. som typen, men mere regelm. [= cells as the type, but more regularly]'. Grouped with A26-1507 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1508.**
- Schimper; [Indonesia]; Sumatra; [no habitat data]; [no date]; slide 906; Tyske Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box and slide marked '*Lithoph. oncodes*'. Annotation slip in box marked 'Ligner cell. hos [= cells look like] *onkodes* f.' and 'Mere regelm. cell. end typen [= more regularly cells than type]']; **TRH A26-1509.**
- Sollas; [Tuvalu]; Funafuti, Hurricane Beach; 'paa koral [= on coral]'; [no date]; slide 317; box marked 'ex coll. Geol. Inst., London (Prof. Judd) but slide marked 'Ex herb. Brit. Mus.' **[BM]**; [no pfa]; [Note: box marked '*Goniolith. onkodes*'. Box also marked 'Specimen from the consolidated rock forming platform' and 'Ekspl. største lgd. ca. 6.5 mm – fotograf. [= specimen largest length ca 6.5 mm – photographed]'. Annotation slip in box marked 'Cell. som hos typen [= cells as the type]'. Collection includes an envelope with two identical photos showing the entire specimen broken into two pieces. The smaller piece forms part of A26-1510]; **TRH A26-1510.**
- [Weber-van Bosse]; [Indonesia]; [Ambon]; [no habitat data]; 5-11.ix.1899; [no slides]; Siboga Expedition, station 181, collection 953; pfa: Foslie 1904b, pl. 11, fig. 9; [Note: collection consists of one fragment which originally was housed in the same box as A26-1511 but has now been removed and treated here as a distinct collection, namely A26-1512. The major portion of S.E. 953 is in L and is illustrated in Foslie 1904b, pl. 11, fig. 9. Collection not mentioned in Adey & Lebednik 1967. Locality data for station 181 obtained from Weber 1902]; **TRH A26-1512.**
- [Weber-van Bosse]; [Indonesia]; Borneo, Muaras Reef; [no habitat data]; 22.vi.1899; one slide labelled with Siboga Expedition collection number 130; Siboga Expedition, station 91, collection 130; [no pfa]; [Note: slide and box marked '*Lithoph. oncodes*'. Box also marked '& Brudst. af [= fragment of] 953 Stat. 181' and '(Pl. XI, fig. 9)'. The fragment from collection 953 has now been removed from A26-1511 and has been placed in a separate box and listed as a separate collection (A26-1512). 'Pl. IX, fig. 9' refers to an illustration of collection 953 in Foslie 1904b]; **TRH A26-1511.**
- [Weber-van Bosse]; [Indonesia]; Kabia Island, Reef; [no habitat data]; 28.-29.x.1899; one slide labelled with Siboga Expedition collection number 891; Siboga Expedition, station 215, collection 891; [no pfa]; [Note: box and slide marked '*Lithoph. oncodes*']; **TRH A26-1513.**
- [Weber-van Bosse]; [Indonesia]; off Lucipara group; 'paa konkylie [= on conch (shell)]'; 8.-10.xi.1899; one slide labelled with Siboga Expedition collection number 534s; Siboga Expedition, station 225, collection comprising two specimens numbered 534 & 535a (both in one box); [no pfa]; [Note: box marked 's. med. [= mixed with] *Gon. myrioc.*']; **TRH A26-1514.**
- [Anon.]; [Gambier Islands]; Mangareva; [no habitat data]; [no date]; slide 1441; [ex] Mus. Paris **[PC]**, [comm.] P. Hariot iv.1907 number 22; [no pfa]; [Note: specimen '22' originally placed by Foslie (?) in the same box as specimens 18 (*onkodes* f. *subramosa* from Fagatau) and 19 (*onkodes* f. *subramosa* from Marutea). Specimens 18 & 19 have been removed, placed in new boxes and treated as distinct collections (see entries A26-1526

- and A26-1527 under f. *subramosa*). All three localities are mistakenly listed on box as being part of Tahiti. Adey & Lebednik 1967: 46 mistakenly list 'Harriot' as collector and '1907' as the collection date and only give 'Tahiti' as the collection locality]; **TRH A26-1515**.
- [Anon.]; [Seychelles]; Coetivy Island; [no habitat data]; ix.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A26-1516**.
- [Anon.]; [Tuvalu]; Funafuti [Island]; [no habitat data]; [no date]; slide 422; British Mus., A28, [comm. G. Murray (see Foslie 1900g: 3)]; pfa: Printz 1929, pl. 67, fig. 6; [Note: box and slide marked '*Lithoph. oncodes*'. Annotation slip in box marked 'Cell. som hos typen [= cells as the type]']; **TRH A26-1519**.
- [Anon.]; [Tuvalu]; Funafuti [Island]; reef platform; [no date]; [no slides]; British Mus., A11, [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: box marked '*L. oncodes*']; **TRH A26-1522**.
- [Anon.]; [Tuvalu]; Funafuti [Island], Fualopa; [no habitat data]; 16.ix.1898; [no slides]; British Mus., A14 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; pfa: Foslie 1904b, pl. 11, figs 5-6, and Printz 1929, pl. 67, fig. 7; [no notes]; **TRH A26-1518**.
- [Anon.]; [Tuvalu]; Funafuti [Islands], Fualopa; [no habitat data]; 26.x.1898; slide 426; British Museum, A16 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: box and slide marked '*Lithoph. oncodes*'. One annotation slip in box with collection data marked '*Lithoph. onkodes*'. Another annotation slip in box marked 'Cell. som hos typen [= cells as the type]']; **TRH A26-1517**.
- [Anon.]; [Tuvalu]; Funafuti [Island], Ocean platform opposite Drill Camp; [no habitat data]; [no date]; [no slides]; British Museum, A12 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: box marked '*L. oncodes* og [= and] Squamariacea']; **TRH A26-1520**.
- [Anon.]; [Tuvalu]; Funafuti [Island], Pava Islet; [no habitat data]; [no date]; [no slides]; British Mus., A15, [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: box marked '*L. oncodes*']; **TRH A26-1521**.
- [Anon.]; [Tuvalu]; Funafuti, from the shoals in the lagoon close to [the] main village; collection depth: about '1 foot' below low water spring tide; [no date]; slide 423; British Mus., A50, [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: box marked 'Analyse 24'. Box also marked '*Lithoph. oncodes*', but slide marked '*Lithoph. onkodes*']; **TRH A26-1523**.
- [Anon.]; [Tuvalu]; nær [= near] Funafuti, Malepe Re; lagoon platform and shoals; ix.1898; [no slides]; [ex] Brit. Mus. [BM], x.1900; [no pfa]; [Note: box marked '*L. oncodes*' but annotation slip in box marked '*Lithophyllum (Lepidom.) onkodes*'. '*Lepidom.*' = *Lepidomorphum*, a subgenus established by Foslie (1900i: 19)]; **TRH A26-1524**.

onkodes, *Lithophyllum* (f. *divia*) [originally described as *Lithophyllum onkodes* f. *divia* (Foslie 1907a: 29), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collection listed in Adey & Lebednik 1967: 46 under species without mention of forma]. **Holotype:** TRH, A26-1525 (see below).

Agassiz; Easter Island; ca 113°45'W' and ca 28°45'S', [no other locality data]; [no habitat data]; [no date]; slide 1499; comm. Farlow (1907) number 17; pfa: Printz 1929, pl. 67, fig. 8; [Note: **Holotype** of *Lithophyllum onkodes* f. *divia*. Additional data — Woelkerling 1993: 80. Annotation slip in box marked '*L. onkodes* har finere cell [= has more delicate cells]']; **TRH A26-1525**.

onkodes, *Lithophyllum* (f. *pachydermum*). See listing below for *pachydermum*, *Lithophyllum*

onkodes, *Lithophyllum* (f. *subramosa*) [originally described as *Lithophyllum onkodes* f. *subramosa* (Foslie 1907a: 29), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collections listed in

Adey & Lebednik 1967: 46 under species without mention of forma]. **Lectotype:** TRH, A26-1528 (see below).

Svedelius; Ceylon [now Sri Lanka]; Galle; 'litoral [= littoral [region]]'; 5.ii.1903; slides 974, 978; [no other collection data]; pfa: Printz 1929, pl. 67, fig. 5; [Note: **Lectotype** of *Lithophyllum onkodes* f. *subramosa* Foslie. Additional data — Woelkerling 1993: 213. Box marked '*Lithoph. ~~acrocamptum~~ onkodes* Heydr. forma *subramosa* Fosl.' and 'ca. 1/3 af ekspl. [= of specimen]'. Large original box contains two smaller original boxes: one marked '974' and one marked 'præp. [= slide] 978'. Annotation slip in second small box marked 'cell som præp. [= cells as on slide] 974, 975'. Slide 975 is part of A26-1529]; **TRH A26-1528.**

Svedelius; Ceylon [now Sri Lanka]; Trincomalie; collection depth: ca 1 metre; 17.iv.1903; slide 975; [no other collection data]; [no pfa]; [Note: box and slide marked '*Lithoph. ~~acrocamptum~~ onkodes* Heydr. forma *subramosa* Fosl.'. Box also marked 'Sporer [= spores]'. Annotation slip in box marked 'gjj. mindre cell. end typene og mere regelm. [= generally smaller cells than the type and more regular]']; **TRH A26-1529.**

[Anon.]; Tuamotu Archipelago; Fagatau [= Fangatau]; [no habitat data]; [no date]; slide 1438; [ex] Mus. Paris [**PC**], [comm.] P. Hariot iv.1907 number 19; [no pfa]; [Note: specimen 19 originally placed by Foslie (?) in the same box as specimens 18 (*onkodes* f. *subramosa* from Marutea) (see entry A26-1526) and 22 (*onkodes* from Mangareva) (see entry A26-1515 under *onkodes*). The three specimens are now in separate boxes and are treated here as distinct collections. All three localities are listed on box as being part of Tahiti. Adey & Lebednik 1967: 46 mistakenly list 'Hariot' as collector and '1907' as the collection date and only give 'Tahiti' as the collection locality]; **TRH A26-1527.**

[Anon.]; [Tuamotu Archipelago]; Marutea; [no habitat data]; [no date]; slide 1437; [ex] Mus. Paris [**PC**], [comm.] P. Hariot iv.1907 number 18; [no pfa]; [Note: specimen 18 originally placed by Foslie (?) in the same box as specimens 19 (*onkodes* f. *subramosa* from Fagatau) (see entry A26-1527) and 22 (*onkodes* from Mangareva) (see entry A26-1515 under *onkodes*). The three specimens are now in separate boxes and are treated here as distinct collections. All three localities are listed on box as being part of Tahiti. Adey & Lebednik 1967: 46 mistakenly list 'Hariot' as collector and '1907' as the collection date and only give 'Tahiti' as the collection locality]; **TRH A26-1526.**

pachydermum*, *Lithophyllum [originally described as *Lithophyllum onkodes* f. *pachydermum* (Foslie 1904c: 5) but subsequently (Foslie 1906a: 22) raised to the rank of species, namely *Lithophyllum pachydermum* and then (Foslie 1909b: 57) transferred without change in rank into *Porolithon*. Names on boxes not updated from *Lithophyllum* to *Porolithon*, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** TRH, A26-1553 (see below).

Howe; Bahamas; Atwood (Sanana) Cay; on rocks, low littoral; 3.xii.1907; slide 1679; [Howe collection number] 5249; pfa: Printz 1929, pl. 67, fig. 10; [Note: box marked 'N.Y.B.G. 5249' [**NY**]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [**NY**] printed on slip in box. Locality and habitat data also on slip]; **TRH A26-1535.**

Howe; Bahamas; Berry Islands, Frozen Cay; at low water mark; 30.i.1905; one slide labelled with Howe collection number 3575; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Gard.' [**NY**] and '*Lithoph. ~~onkodes~~ f. pachydermum*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [**NY**] printed on slip in box. Slip also contains habitat and locality data]; **TRH A26-1530.**

Howe; Bahamas; Great Bahama, Eight Mile Rock; near low water mark; 5.ii.1905; one slide labelled with Howe collection number 3690; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot Garden' [**NY**] and '*Lithoph. ~~onkodes~~ f. pachydermum*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Gar-

- den' [NY] printed on slip in box. Slip also marked with habitat and locality data. Another annotation slip in box marked '= Præp. [= slide] 991', but 991 is crossed out on the slide. Grouped with A26-1532 under one entry in Adey & Lebednik 1967: 47]; **TRH A26-1531.**
- Howe; Bahamas; Great Bahama, Eight Mile Rock; at low water mark, 'delvis paa [= partly on] *Gon. not. f. propinqua*'; 8.ii.1905; one slide labelled with Howe collection number 3766a; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot Garden' [NY]. Box and slide marked '*Lithoph. ~~oncodes~~ f. pachydermum*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also contains habitat and locality data. Another annotation slip in box marked '= Præp. [= slide] 993 = *L. oncodes* og [= and] *Goniol. sp.*', but 993 is crossed out on the slide. Grouped with A26-1531 under one entry in Adey & Lebednik 1967: 47]; **TRH A26-1532.**
- Howe; Bahamas; Great Ragged Island; 'paa [= on] *Gon. strictum spectabile*', near low water mark; 24.xii.1907; slide 1705; [Howe collection number] 5826; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also marked 'mell. typisk og [= between typical and]' '*Lithoph. (Porolithon) pachydermum fere [= nearly] f. nexilis - typica*'. Slide marked '*Lithoph. (Porolithon) pachydermum f. nexilis - typica*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also contains habitat and locality data. Collection includes a small round box marked '= Præp. [= slide] 1705']; **TRH A26-1533.**
- Howe; Bahamas; Nassau, New Providence; on rocks at low water mark; 26.i.1905; one slide labelled with Howe collection number 3375; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot Garden' [NY] and '*Lithoph. ~~oncodes~~ f. pachydermum*'. Slide marked '*Lithoph. oncodes f. pachydermum*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also contains habitat and locality data. Another annotation slip in box marked '= Præp. [= slide] 985, but 985 is crossed out on the slide]; **TRH A26-1534.**
- Howe; Jamaica; Drunkenman's Cay, near Kingston; near low water mark; 29.xii.1906; slide 1399; [Howe collection number] 4733; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also faintly marked in pencil 'NB. Anth. konc.? [= NB. Antheridial conceptacles?]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on one slip in box. Another slip marked '*Lithophyllum antillarum?* + *L. pachydermum?*'; **TRH A26-1536.**
- Howe; Jamaica; Drunkenman's Cay, near Kingston; at low water mark; 29.xii.1906; slide 1400; [Howe collection number] 4735; [no pfa]; [Note: box marked 'N.Y.B.G. nr 4735' [NY]. Box also faintly marked 'Cyst. konc. [= cystocarpic conceptacles]' and '~~NB. Anth. konc.? [= NB. Antheridial conceptacles?]~~'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on one slip in box. A second slip marked 'Enp. konc. [= uniporate (enporede) conceptacles]'. A third slip marked '*L. pachydermum f. typica*'; **TRH A26-1538.**
- Howe; Jamaica; Gun Cay, near Kingston Harbor; on reef at low water mark; 20.xii.1906; slide 1389; [Howe collection number] 4626; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also marked 'Sp. konc.? [= sporangial conceptacles?]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box also marked with locality, collection number, and habitat data. Another slip in box marked 'Enp. konc. [= uniporate (enporede) conceptacles]']; **TRH A26-1539.**
- Howe; Jamaica; near Kingston; [no habitat data]; 21.xii.1906; slides 1391, 1421; [Howe collection number] 4641; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also marked '*Lithoph. pachydermum* (og [= and] *L. intermedium?*'. Box also marked 'Præp. 1391 ved x og Præp. 1421 ved xx [= slide 1391 at x and slide 1421 at xx]'. Specimens in box marked 'x' and 'xx'. Annotation slip in box marked 'Enp. konc. [= uniporate (enporede) conceptacles]']; **TRH A26-1537.**

- Howe; Jamaica; Montego Bay; on a littoral reef, at low water mark; 5.i.1907; slide 1407; [Howe collection number] 4761; [no pfa]; [Note: box marked 'N.Y.B.G.' [NY]. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked by hand with locality and habitat data. Grouped with A26-1541 and A26-1543 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1542.**
- Howe; Jamaica; Montego Bay, northern shore; on rocks, near low water mark; 6.i.1907; slide 1455; [Howe collection number] 4896a; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. Box lid also marked 'NB. Anth. konc.? [= NB. Antheridial conceptacles?]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked by hand with locality and habitat data. Another slip in box marked 'Smaa konc. [= small conceptacles]' and '2 arter? [= two species?]']; **TRH A26-1540.**
- Howe; Jamaica; Montego Bay, northern shore; on rocks; 8.i.1907; slide 1457; [Howe collection number] 4897; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on one slip in box. Slip also marked with locality and habitat data. Another slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with A26-1542 and A26-1543) under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1541.**
- Howe; Jamaica; Montego Bay, northern shore; on rocks, near low water mark; 8.i.1907; slide 1456; [Howe collection number] 4896b; [no pfa]; [Note: 'New York Botanical Garden' [NY] printed on slip affixed to box lid. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked with locality and habitat data. Another slip in box marked 'Smaa tømte konc.? [= small empty conceptacles?]']. Grouped with A26-1541 and A26-1542 under one entry in Adey & Lebednik 1967: 46]; **TRH A26-1543.**
- Howe; Jamaica; Montego Bay, seaward shore of the Bogue Islands; collection depth: 3 dm (decimetres) of water, on coral fragments; 7.i.1907; slides 1453, 1476; [Howe collection number] 4823; [no pfa]; [Note: box marked 'N.Y.B.G. Nr 4823' [NY] and '*Lithoph. pachydermum* f.? (delvis [= in part])' and 'steril [= sterile]'. Larger round box, however, contains one fragment in a small original box marked 'konc. [= conceptacles]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked with locality and habitat data. Another slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH A26-1544.**
- Howe; Puerto Rico; Culebra Island; near low water mark; 3.iii.1906; slide 1064; [Howe collection number] 4222a; [no pfa]; [Note: box marked 'N.Y.B.G. Nr 4222a' [NY] and 'Sp. [= sporangia]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked with locality and habitat data. Another annotation slip in box marked '*Lithophyllum oncodes* (?)' and '4222(a)'. Grouped with A26-1547 and A26-1548 under one entry in Adey & Lebednik 1967: 47]; **TRH A26-1549.**
- Howe; Puerto Rico; Culebra Island; near low water mark; 3.iii.1906; slide 1066; [Howe collection number] 4223; pfa: Printz 1929, pl. 67, fig. 9; [Note: box marked 'N.Y.B.G. nr 4223' [NY] and 'Sp. [= sporangia]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked with locality and habitat data. Grouped with A26-1551 under one entry in Adey & Lebednik 1967: 47]; **TRH A26-1550.**
- Howe; Puerto Rico; Culebra Island; near low water mark; 4.iii.1906; slide 1076; [Howe collection number] 4239; [no pfa]; [Note: box marked 'N.Y.B.G. 4239' [NY] and '*Lithoph. pachydermum* paa anden art [= on another species]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY] printed on slip in box. Slip also marked with locality and habitat data. Grouped with A26-1550 under one entry in Adey & Lebednik 1967: 47]; **TRH A26-1551.**

Howe; Puerto Rico; Culebra Island; near low water mark; 4.iii.1906; slide 1074; [Howe collection number] 4233; [no pfa]; [Note: box marked 'N.Y.B.G. 4233' **[NY]** and '*Lithoph. pachydermum* over *Lithoph. prototypum* og muligens [= and perhaps] *Lithop. decipiens* f. *caribea*'. Annotation slip in box from Howe with locality and habitat data also imprinted with 'New York Botanical Garden, North American Marine Algae' **[NY]**. Another slip in box marked 'Tømte konc. [= empty conceptacles]'. Grouped with A26-1547 and A26-1549 under one entry in Adey & Lebednik 1967: 47; **TRH A26-1548**.

Howe; Puerto Rico; Culebra Island; near low water mark; 6.iii.1906; slide 1084; [Howe collection number] 4329; [no pfa]; [Note: box marked 'N.Y.B.G. 4329' **[NY]** and '*Lithoph. pachydermum* ialfald delvis [= at least in part]' and 'Kun følge substr.? [= only on substrate?]' (word before 'substr.' is unclear). Annotation slip in box from Howe with locality and habitat data also imprinted with 'New York Botanical Garden, North American Marine Algae'; **TRH A26-1545**.

Howe; Puerto Rico; Culebra Island; near low water mark; 6.iii.1906; slide 1083; [Howe collection number] 4327; [no pfa]; [Note: box marked 'N.Y.B.G. 4327' **[NY]**. Annotation slip in box from Howe with locality, collection number, and habitat data also imprinted with 'New York Botanical Garden, North American Marine Algae'. Another slip in box marked '*Lithophyllum oncodes?*' and '4327'. Grouped with A26-1548 and A26-1549 under one entry in Adey & Lebednik 1967: 47; **TRH A26-1547**.

Howe; Puerto Rico; San Juan; [no habitat data]; 2.vi.1903; one slide labelled with Howe collection number 2295b; [no other collection data]; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]** and '*Lithoph. oncodes* f. *pachydermum*' while slide is marked '*Lithoph. oncodes* f. *pachydermum*']; **TRH A26-1552**.

Ørsted; [Vestindien] [Danish West Indies, now the U.S. Virgin Islands]; (St. Croix?); [no habitat data]; 1848; slide 533 and two more recently prepared slides; [ex] Bot. Mus. Kbhavn **[C]** 1900, Ørsted 548; [no pfa]; [Note: **Lectotype** of *Lithophyllum oncodes* f. *pachydermum* Foslie. Additional data — Woelkerling 1993: 165. Subsequently elevated to species rank by Foslie 1906a: 22. Box marked '~~*L. oncodes*~~' and '*L. pachydermum*'. Slide 533 marked '*Lithophyllum oncodes* Heydr. *pachydermum*' and 'Vestindien, (St. Croix?)' and 'Ørsted 1848' and 'nr. 548' and 'Bot. Mus. Kbhavn'. Recently prepared slides marked '*Lithophyllum pachydermum*, Bot. Mus. Kbhavn 1900']; **TRH A26-1553**.

***pachydermum*, *Lithophyllum* (f. *nexilis*)** [originally described as *Lithophyllum pachydermum* f. *nexilis* (Foslie 1909b: 41), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collections listed in Adey & Lebednik 1967: 47 under species without mention of forma]. **Holotype:** **TRH**, A26-1554 (see below).

Howe; Bahamas; Mariguana [= Mayaguana] [Island], Abraham Bay; on corals at low water mark; 6.xii.1907; slide 1695; [Howe collection number] 5410; pfa: Printz 1929, pl. 67, fig. 11; [Note: **Holotype** of *Lithophyllum pachydermum* f. *nexilis* Foslie. Additional data — Woelkerling 1993: 157. Box marked 'N.Y.B.G. 5410' **[NY]** and '*Lithop. (Porol.) pachydermum* forma *nexilis*'. Box also marked '(Cell. større end hos typen [= cells larger than type])' and 's. med. [= mixed with] *Gon. propinquum*' and 'Præp. 1695 største ved x [= slide 1695 largest at x]'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in box. Slip also marked with locality and habitat data. Grouped with A26-1555 under one entry in Adey & Lebednik 1967: 47; **TRH A26-1554**.

Howe; Bahamas; Mariguana [= Mayaguana] [Island] 10 miles west of Abraham Bay; on *Goniolithon strictum*; 5.xii.1907; slide 1683; no. 5333 [Howe collection number] 5333; [no pfa]; [Note: box marked 'N.Y.B.G. 5333' **[NY]** and '*Lithop. (Porol.) pachydermum* forma *nexilis*' and '(Cell. større end hos typen [= cells larger than type])' and 'paa [= on] *Gon. strictum*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in box. Slip also marked with locality and habitat

data. Grouped with A26-1554 under one entry in Adey & Lebednik 1967: 47; **TRH A26-1555**.

Case A, Drawer 27

During the present study, some loose notes containing information on cell or conceptacle dimensions were found that could not be linked to any particular collection. These now have been placed in an unnumbered envelope labelled 'Loose notes found in Drawer A27'. Three photos also were found but could not be linked to particular collections. One is marked '*L. oncodes*' and the other two '*L. craspedium*'. These have been placed in an envelope labelled 'Loose photographs found in Drawer A27'.

africanum*, *Lithophyllum [originally described as *Lithophyllum africanum* (Foslie 1900h: 3), but subsequently (Foslie 1909b: 57) transferred without change in rank into *Porolithon*. Names on boxes not updated from *Lithophyllum* to *Porolithon*, probably due to Foslie's death on 9.xi.1909]. **Lectotype:** TRH, A27-1559 (see below).

Möller, [A.F.]; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island], Bahia de Anna Chaves & Praia Legarto; [no habitat data]; vii.1885; [no slides]; number 28, ex herb. Univ. Coimbra [**COI**] - Henriques, comm. Kjellman [from] Herb. Kjellman [**UPS**]; [no pfa]; [Note: the specimen appears to have been sent by Henriques to Kjellman, who later sent it to Foslie]; **TRH A27-1556**.

Paessler; Afrika [= Africa], Cap Verd. Inseln [= Cape Verde]; St. Vincent; [no habitat data]; 1897; [no slides]; ex Bot. Mus. Hamburg [**HBG**] 1901; [no pfa]; [Note: annotation slip in box marked 'Største stk. basal stk. [= largest piece basal piece]']; **TRH A27-1557**.

[Anon.]; [Sénégal]; Cap Vert [= Cape Verde]; [no habitat data]; [no date]; slide 1657; [comm.] Hariot (Mus. Paris) [**PC**] 1908, number 1; [no pfa]; [Note: collection includes fragments in a small box marked 'Præp. [= slide] 1657'. Adey & Lebednik 1967: 47 mistakenly list 'Hariot' as the collector and '1908' as the collection date]; **TRH A27-1558**.

[Anon.]; [Sénégal]; Cabo Verde [= Cape Verde]; [no habitat data]; [no date]; two slides numbered 1251; comm. by Henriques, Coimbra [**COI**], Henriques number 23 [in part]; pfa: Printz 1929, pl. 68, fig. 4; [Note: **Lectotype** of *Lithophyllum africanum* Foslie. Additional data — Woelkerling 1993: 23. One slide marked 'Cape Verde' and 'ex Hb. Foslie'. Grouped with the type of *Lithophyllum africanum* f. *truncatum* Foslie (A27-1563) under one entry in Adey & Lebednik 1967: 47, who mistakenly list the collector as 'Coimbra']; **TRH A27-1559**.

[Anon.]; Marokko [= Morocco]; Tanger [= Tangier]; [no habitat data]; [no date]; [no slides]; Mus. d'Hist. Nat. Paris [**PC**], comm. Hariot 1905, number 4; [no pfa]; [Note: box marked 'dødt ekspl. [= dead specimen]'. Collection not included in Adey & Lebednik 1967]; **TRH A27-1560**.

***africanum*, *Lithophyllum* (f. *intermedium*)** [originally described as *Lithophyllum africanum* f. *intermedia* (Foslie 1900h: 3), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collections listed in Adey & Lebednik 1967: 47 under species without mention of forma]. **Holotype:** TRH, A27-1561 (see below).

Bouvier; [Sénégal]; Iles du Cap Vert [= Cape Verde] [but see Note]; [no habitat data]; [no date]; two slides numbered 1250; comm. Bornet; pfa: Printz 1929, pl. 68, fig. 3; [Note: **Holotype** of *Lithophyllum africanum* f. *intermedium* Foslie. Additional data — Woelkerling 1993: 127 and Woelkerling 1998c: 300. Although collection locality on box is given as

'Aux îles du Cap Vert [= Cape Verde]', the true collection locality is Cap Vert (Sénégal), as noted on the original labels on the collection in **PC** (see Woelkerling 1998c: 300 & fig. 153) and also noted on the annotation on one slide, which is marked 'Cape Verde' and 'ex Hb. Foslie'. **TRH** box marked 'Præp. 1250 + afkl. [= slide 1250 + decalcified]'. One annotation slip in box marked 'Præp. 1250 som præp. 1657 [= slide 1250 as slide 1657]'. Slide 1657 is part of collection A27-1558 (*Lithophyllum africanum*). Another annotation slip in box marked 'Præp. 1250 af største ekspl. ved x [= slide 1250 of largest specimen at x]'; **TRH A27-1561**.

[Anon.]; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island]; [no habitat data]; [no date]; [no slides]; comm. Henriques, Coimbra [**COI**] 1901 numbers 1, 2, 4; pfa: Printz 1929, pl. 68, fig. 2; [Note: specimens 1, 2, & 4 originally were placed by Foslie in the same box as specimen 3 (*L. africanum* f. *truncatum*) (A27-1564), but as two taxa are involved, the specimens have been separated into distinct collections during the present study. Annotation slip in original box marked 'Ingen sporer [= without spores]', but it is unclear whether this annotation applies to specimens in both A27-1562 & A27-1564 or applies to specimens in only one of the two collections. Both collections (A27-1562 & A27-1564) grouped with the type of *Lithothamnion ponderosum* (A27-1586) under one entry in Adey & Lebednik 1967: 47, who mistakenly listed the collector as 'Coimbra']; **TRH A27-1562**.

africanum, Lithophyllum (f. truncatum) [originally described as *Lithophyllum africanum* f. *truncata* (Foslie 1900h: 3), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collections listed in Adey & Lebednik 1967: 47 under species without mention of forma]. **Holotype**: **TRH**, A27-1563 (see below).

[Anon.]; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island]; [no habitat data]; [no date]; [no slides]; comm. Henriques, Coimbra [**COI**] 1901 number 3; [no pfa]; [Note: specimen 3 originally was placed by Foslie in the same box as specimens 1, 2, & 4 (*africanum* f. *intermedium*) (A27-1562), but as two taxa are involved, the specimens have been separated into distinct collections during the present study. Annotation slip in original box (slip now placed with A27-1562) marked 'Ingen sporer [= without spores]', but it is unclear whether this annotation applies to specimens in both A27-1562 & A27-1564 or applies to specimens in only one of the two collections. Both collections (A27-1562 & A27-1564) grouped with the type of *Lithothamnion ponderosum* (A27-1586) under one entry in Adey & Lebednik 1967: 47, who mistakenly listed the collector as 'Coimbra']; **TRH A27-1564**.

[Anon.]; [Sénégal]; Cape Verde [but see Note]; [no habitat data]; [no date]; slide 441; comm. Henriques, Coimbra [**COI**], Henriques number 23 [in part]; pfa: Printz 1929, pl. 68, fig. 1; [Note: **Holotype** of *Lithophyllum africanum* f. *truncatum* Foslie. Additional data — Woelkerling 1993: 226. Locality on box and in protologue (Foslie 1900h: 3-4) given as Cape Verd, but one annotation slip in box is marked 'Kapvert øer [= Cape Verde]'. Another annotation slip in box marked 'Præp. [= slide] 441. Cellene er smalere end i præp. 1085 + 1086 [= cells are narrower than in slides 1085 + 1086]' and 'Ingen konc. [= without conceptacles]'. Slides 1085 & 1086 belong to a collection of *Lithophyllum antillarum* (A27-1565). A third annotation slip in box is marked 'Præp. [= slide] 441 f. *truncata*. Cell. som præp. [= cells as slide] 1251'. Slide 1251 forms part of the lectotype of *Lithophyllum africanum* (A27-1559). Still another annotation slip in box is marked 'Rækker store celler, antheridier?, ell. saml. af heterocyster? [= rows of large cells, antheridia?, or gathering of heterocysts (trichocytes)?]'. Grouped with the type of *Lithophyllum africanum* Foslie (A27-1559) under one entry in Adey & Lebednik 1967: 47, who mistakenly list the collector as 'Coimbra']; **TRH A27-1563**.

antillarum, Lithophyllum [originally described as *Lithophyllum antillarum* (Foslie & Howe 1906a: 579), but subsequently (Foslie 1909b: 57) transferred without change in rank into *Porolithon*. Names on boxes not updated from *Lithophyllum* to *Porolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype: NY**, Howe collection 4373 (Woelkerling 1993: 28)

Howe; Puerto Rico; Culebra island; on reef near low water mark; 7.iii.1906; slides 1085-1086 and two unnumbered slides; [Howe collection number] 4373; pfa: Printz 1929, pl. 68, figs 5-6; [Note: **Isotype** of *Lithophyllum antillarum* Foslie. Additional data — Woelkerling 1993: 28 and Woelkerling 1998c: 302. Box marked 'N.Y.B.G.' [**NY**] and '*Lithoph. (Porol.) antillarum* (og [= and] *Gon. propinquum*)' and 'Analyse nr. 24'. 'New York Botanical Garden North American Marine Algae' printed on annotation slip in box. Same slip has locality, Howe collection number and habitat data and is marked 'forming masses sometimes 1-3 dm high, decolorate or grayish-pink when living'. Another slip in box marked 'Præp. 1085 af lidt s. trykt gren af lille ekspl. beklædt liden skorpe *Goniol.* [= slide 1085 of small some compressed branch of small specimen covered little crust of *Goniol.*]' and 'Præp. 1086 af kantet gr. største ekspl. [= slide 1086 of edged branch largest specimen]'. Large original box also contains a smaller original box marked 'Porer af rækker store celler seet fra oven (anth.?) [= pores of rows of large cells seen from above (antheridia?)]'. Drawer A27 also contains an envelope with a photograph marked 'no. 4373' which shows the holotype and an isotype housed in **NY** and is identical to pl. 25 in the protologue (Foslie & Howe 1906a: pl. 25). This photo does not constitute part of A27-1565]; **TRH A27-1565**.

craspedium, Lithophyllum [originally described as *Lithophyllum craspedium* (Foslie 1900a: 26), but subsequently (Foslie 1909b: 57) transferred without change in rank into *Porolithon*. Names on boxes not updated from *Lithophyllum* to *Porolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype: TRH**, A27-1566 (see below).

[Finckh]; [Kiribati]; [Gilbert Islands], [Onoataa]; [no habitat data]; [no date]; slide 421; British Mus. A27 'Funafuti'; pfa: Printz 1929, pl. 69, fig. 3; [Note: **Holotype** of *Lithophyllum craspedium* Foslie. Additional data — Woelkerling 1993: 64. Data on type locality and collector obtained from protologue (Foslie 1900a: 26-27) and Foslie 1900g: 8. 'Funafuti' on box cover was used by Foslie (1900g: 3) for a region involving various localities and not just the Atoll of Funafuti. Box marked '*Lithoph. craspedium* f. *compressa*' and 'Analyse nr. 26'. Slide 421 is marked '*Lithoph. craspedium* Fosl. f. *compressa*' and 'Funafuti' and 'Brit. Mus. A27'. The epithet 'f. *compressa*' is superfluous for the type forma (f. *craspedium*) (Woelkerling 1993: 56, 64-65). One annotation slip in box marked 'Fotogr. ekspl. største lgd. ca 16 cm [= photograph specimen largest length ca 16 cm]'. Another annotation slip contains cell measurements and is marked 'Konc. [= conceptacles]'. Large round box includes fragment in a smaller original box marked '421']; **TRH A27-1566**.

Gardiner; Chagos Archipelago; Egmont Atoll; reef; v.1905; slide 1301; [no other collection data]; pfa: Printz 1929, pl. 69, fig. 1; [Note: box marked '*Lithoph. craspedium* f. *typica* – overg. til [= grading into] f. *compressa*' and 'Analyse nr. 28'. The epithet 'f. *compressa*' is superfluous for the type forma (f. *craspedium*) (Woelkerling 1993: 56, 64-65). Annotation slip in box marked 'Cell. som præp. [= cells as slide] 1305' and Indiske hav [= Indian Ocean]'. Slide 1305 is part of A27-1568. Grouped with A27-1568 under one entry in Adey & Lebednik 1967: 47]; **TRH A27-1567**.

[Gardiner]; Chagos Archipelago; Indiske hav [= Indian Ocean], Egmont Atoll; lagoon shoal and breaker zone; v.1905; slide 1305; [no other collection data]; [no pfa]; [Note: annotation slip with cell measurements also marked 'Grupper av cell.: kortere hyp. cell. end f. *compressa*, præp. 421 [= groups of cells: shorter than hypothallial cells than f. *compressa*, slide. 421]'. Slide 421 is part of collection A27-1566. Another annotation slip marked 'Sendt prof. [= sent to Professor] Setchell 5.ii.1930'. Collection includes three fragments in a glass jar marked 'Egmont, Chagos, v.1905, *Lithoph. crasp.*'. Grouped with A27-1567 under one entry in Adey & Lebednik 1967: 47]; **TRH A27-1568**.

- Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; reef; v.1905; slide 1310; [no other collection data]; pfa: Printz 1929, pl. 69, fig. 5; [Note: box marked 'Præp. 1310 ekspl. x med *Gon. sp.* [= slide 1310 specimen x with a species of *Gonolithon*']. One annotation slip in box marked '1 rad korte 3 r. lange cell., i en del af præp. 1310 som præp. 421 [= 1 row short 3 rows long cells, a part of slide 1310 as slide 421]'. Slide 421 is part of collection A27-1566. Another annotation slip marked 'Sendt prof. [= sent to professor] Setchell 5.ii.1930'. Grouped with a collection of *L. craspedium* f. *abbreviata* (A27-1578) under one entry in Adey & Lebednik 1967: 47; **TRH A27-1569.**
- Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Coetivy [Island], E [= east] reef; [no habitat data]; ix.1905; slide 1295; [no other collection data]; [no pfa]; [Note: box marked '(Brudstk. af ekspl. [= fragments of specimen])'. Annotation slip in box marked 'Skjævt snit [= oblique cut]' and 'Mindre cell. end [= smaller cells than] 421' and 'Funafuti'. Slide 421 is part of collection A27-1566. Foslie's reference to Funafuti (Pacific Ocean) cannot be explained]; **TRH A27-1570.**
- Gardiner; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; one unnumbered slide; comm. Stanley Gardiner; pfa: Foslie 1903c, pl. 25 [mistakenly listed as pl. 2 on box], fig. 1, and Printz 1929, pl. 69, fig. 4; [Note: box marked '*Lithoph. craspedium* f. *typica* – overg. [= grading into] f. *compressa*' and 'afk. snit [= decalcified cut]'. The epithet 'f. *compressa*' is superfluous for the type forma (f. *craspedium*) (Woelkerling 1993: 56, 64-65)]; **TRH A27-1571.**
- [Gardiner]; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner; [no pfa]; [Note: box marked '*L. craspedium* Fosl. (og [= and] *L. onkodes* Heydr.)'. Collection not included in Adey & Lebednik 1967]; **TRH A27-1572.**
- [Gardiner]; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner; pfa: Printz 1929, pl. 69, fig. 6; [Note: box marked 'f. *typica* overg. [= grading into] f. *subtilis*'. Grouped in Adey & Lebednik 1967: 47 under one entry with A27-1574 and A27-1575 and a collection of f. *abbreviata* (A27-1579)]; **TRH A27-1573.**
- Gardiner; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 740; [no other collection data]; pfa: Printz 1929, pl. 69, fig. 2; [Note: box marked '*Lithoph. craspedium* f. *typica* (og [= and]) *L. oncodes* uderst [= outermost]?' and 'Analyse nr. 27'. Annotation slip in box marked 'Præp. 740 som præp. 421 [= slide 740 as slide 421]'. Slide 421 is part of collection A27-1566. Grouped in Adey & Lebednik 1967: 47 under one entry with A27-1573 and A27-1575 and a collection of f. *abbreviata* (A27-1579)]; **TRH A27-1574.**
- Gardiner; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 756; comm. Stanley Gardiner; [no pfa]; [Note: box and slide marked '*L. craspedium* f.?']. Slide also marked 'leg. Stanley Gardiner'. Grouped in Adey & Lebednik 1967: 47 under one entry with A27-1573 and A27-1574 and a collection of f. *abbreviata* (A27-1579)]; **TRH A27-1575.**
- [Gardiner]; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Stanley Gardiner; [no pfa]; [Note: collection housed in a glass jar within a box. Apparently not included in Adey & Lebednik 1967]; **TRH A27-1576.**
- [Anon.]; [Tuvalu]; Funafuti, Fualopa; [no habitat data]; 26.x.1898; slide 427; Brit. Mus. A16 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: annotation slip in box marked 'Præp. 427 cell. som præp. 421 [= slide 427 cells as slide 421]'. Slide 421 is part of collection A27-1566]; **TRH A27-1577.**

craspedium, Lithophyllum (f. abbreviata) [originally described as *Lithophyllum craspedium* f. *abbreviata* (Foslie 1900g: 7), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collections listed in Adey & Lebednik 1967: 47 under species without mention of forma]. **Lectotype:** TRH, A27-1581 (see below).

Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; [no habitat data]; v.-vi.1905; slide 1318; [no other collection data]; [no pfa]; [Note: box marked '*Lithoph. craspedium* (f. *abbreviata*?)' and 'Præp. 1318 af ekspl. x [= slide 1318 of specimen x]'. Grouped with collection A27-1569 of *L. compressa* under one entry in Adey & Lebednik 1967: 47]; **TRH A27-1578**.

Gardiner; Malediverne [= Maldiv Islands]; Hulule, Male Atoll; [no habitat data]; iv.1899 or iv.1900 [see Note]; slide 741; [no other collection data]; pfa: Foslie 1903c, pl. 25 mistakenly listed as pl. 2 on box], fig. 2; [Note: box marked '(overg. til [= grading into] f. *subtilis*)'. Collection date on box is iv.1899 but on slide, iv.1899 is crossed out and replaced by iv.1900. Grouped with three collections of *L. craspedium* (A27, 1573, A27-1574, A27-1575) under one entry in Adey & Lebednik 1967: 47]; **TRH A27-1579**.

[Anon.]; [Gambier Islands]; Makaroa [= Makarou Island]; [no habitat data]; [no date]; slide 1413; [ex] Mus. Paris [PC], [comm.] Hariot iv.1907, number 7; [no pfa]; [Note: collection locality on box marked 'Tahiti Makaroa'. Makaroa [= Makarou Island], however, is part of the Gambier Islands while Tahiti is one of the Society Islands. Adey & Lebednik 1967: 47 mistakenly list 'Hariot' as the collector, 'Tahiti' as the collection locality, and '1907' as the collection date]; **TRH A27-1580**.

[Anon.]; [Tuvalu]; Funafuti, Fualopa; [no habitat data]; 16.ix.1898; slide 428; Brit. Mus. A14 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: **Lectotype** of *Lithophyllum craspedium* f. *abbreviata* Foslie. Additional data — Woelkerling 1993: 13. Box marked '*Lithoph. craspedium* f. (*abbreviata*) ung [= young] *typica*']; **TRH A27-1581**.

[Anon.]; [Tuvalu]; Funafuti; [no habitat data]; [no date]; slide 429; Brit. Mus. A12 'delvis [= in part]', [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: box marked '*L. craspedium* (f. *abbreviata*)' but annotation slip in box marked '*L. craspedium* f. ~~*abbreviata*~~ (delvis [= in part])' and 'Brudst. nærmest f. *abbrev.*, hele f. *compr.* [= fragment closest to f. *abbreviata*, the whole f. *compressa*']. The epithet 'f. *compressa*' is superfluous for the type forma (f. *craspedium*) (Woelkerling 1993: 56, 64-65). Annotation slip also marked 'Præp. Anderss. 429 af brudst. [= slide Anderss. 429 of fragment]'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH A27-1582**.

***craspedium, Lithophyllum* (f. *subtilis*)** [originally described as *Lithophyllum craspedium* f. *subtilis* (Foslie 1901a:10), but the form not formally transferred when (Foslie 1909b: 57) the species was transferred from *Lithophyllum* into *Porolithon*. Collection listed in Adey & Lebednik 1967: 47 under species without mention of forma]. **Holotype:** TRH, A27-1583 (see below).

[Anon.]; [Tuvalu]; Malepe Re nær [= near] Funafuti; lagoon platform and shoals; ix.1898; slide 521; ex. Brit. Mus. [BM], x.1900; pfa: Printz 1929, pl. 69, fig. 7; [Note: **Holotype** of *Lithophyllum craspedium* f. *subtilis* Foslie. Additional data — Woelkerling 1993: 216. Box marked 'brudstk. [= fragments]'. Annotation slip in box marked 's. med [= mixed with] f. *abbreviata* og [= and] *Lith. onkodes*' and '2 smaastk. maaske ej same art [= two small fragments maybe not the same species]' and '6 cm long – fotogr. [= 6 cm long – photograph]']; **TRH A27-1583**.

funduense, Lithophyllum [originally described as *Lithophyllum funduense* (Pilger 1908: 42) but subsequently (Foslie 1909b: 38) reduced to the rank of form and treated as *Lithophyllum onkodes* f. *funduensis*. Name not updated on box, probably due to Foslie's death on 9.xi.1909]. **Type:** not designated (Woelkerling 1993: 101). **TRH** has one syntype (A27-1584).

Voeltzkow; [Tanzania]; Fundu Island (Pemba, Brit. Østafr. [= British East Africa]); [no habitat data]; iv.1903; slide 1726; ex Bot. Mus. Berlin [B]; pfa: Printz 1929, pl. 67, figs 1-2; [Note:

Syntype fragments of *Lithophyllum funduense* Pilger. Additional data — Woelkerling 1993: 101]; **TRH A27-1584**.

oligocarpum, Lithophyllum [originally described as *Lithophyllum oligocarpum* (Foslie 1906a: 22), but subsequently (Foslie 1909b: 57) transferred without change in rank into *Porolithon*. Name on box not updated from *Lithophyllum* to *Porolithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype: TRH, A27-1585** (see below).

Sauvageau; De Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; 'litoralreg. [= littoral region]'; xii.1904-ii.1905; slide 1013; [no other collection data]; pfa: Printz 1929, pl. 67, fig. 12; [Note: **Holotype** of *Lithophyllum oligocarpum* Foslie. Additional data — Woelkerling 1993: 163 and Woelkerling 1998c: 320. Box marked '*Lithoph. oligocarpum* + brudstk. af andet ekspl. [= *Lithoph. oligocarpum* + fragment of another specimen]'. Annotation slip in box marked 'Algues marines des Canaries'. Large round box includes a fragment in an original small, unmarked box]; **TRH A27-1585**.

ponderosum, Lithophyllum [originally described as *Lithothamnion ponderosum* (Foslie 1897b: 15), but then (Foslie 1898b: 9) transferred without change in rank into *Goniolithon* and then (Foslie 1900i: 19) into *Lithophyllum*. Subsequently (Foslie 1909b: 42) considered conspecific with *Lithophyllum africanum* but Foslie (1909b: 42) should have adopted the 1897 epithet *ponderosum* and not the 1900 epithet *africanum*]. **Holotype: TRH, A27-1586** (see below).

[Anon.]; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island]; [no habitat data]; [no date]; slide 442; comm. Henriques, Coimbra [**COI**] number 28; [no pfa]; [Note: **Holotype** of *Lithothamnion ponderosum* Foslie. Additional data — Woelkerling 1993: 175. Box marked '~~*L. ponderosum*~~ *L. africanum* f.'. Annotation slip in box marked 'Præp. 442 ligner præp. 1251 [= slide 442 resembles slide 1251]'. Slide 1251 forms part the lectotype of *Lithophyllum africanum* (A27-1559). Listed in Adey & Lebednik 1967: 47 under *Lithophyllum africanum* and grouped there under one entry with a collection of *L. africanum* f. *intermedium* (A27-1562) and a collection of *L. africanum* f. *truncatum* (A27-1564). Adey & Lebednik 1967: 47 also mistakenly list the collector as 'Coimbra']; **TRH A27-1586**.

Case A, Drawer 28

During the present study, some loose notes containing information on cell or conceptacle dimensions were found that could not be linked to any particular collection. These now have been placed in an unnumbered envelope labelled 'Loose notes found in Drawer A28'.

aequinoctiale, Lithophyllum (subg. Porolithon) [originally described as *Lithophyllum aequinoctiale* (Foslie 1909b: 47) but later in the same paper (Foslie 1909b: 57) transferred without change in rank into the newly established genus *Porolithon*]. **Holotype: TRH, A28-1587** (see below).

Quintas; [São Tomé and Príncipe]; St. Thomé [= São Tomé], Rotas Island; [no habitat data]; [no date]; slides 439, 1152; ex herb. Jard. Bot. Coimbra [**COI**], number 33 'partim [= in part]'; pfa: Printz 1929, pl. 70, figs 4-5; [Note: **Holotype** of *Lithophyllum aequinoctiale* Foslie. Additional data — Woelkerling 1993: 20. Larger round box includes one fragment in a small round box marked '439'. One annotation slip in larger round box marked 'Henriques 33'. Another annotation slip marked 'Præp. [= slide] 1152' and '*L. retusum?* med delvis altern. celler og obs. anth. konc.? spaltef. [= *Lithophyllum retusum?* with partly alternating cells and observed antheridial conceptacles? cleave]'. Adey & Lebednik 1967: 48 mistakenly list the locality as 'Red Sea, St. Thomas' and mistakenly list slide 1152 as '152']; **TRH A28-1587**.

chalonii, *Lithophyllum* [originally described as *Lithophyllum chalonii* (Heydrich 1899: 221), then (Foslie 1900a: 21, footnote 2) reduced to the rank of form and transferred into *Goniolithon* (as *G. notarisii* f. *chalonii*), then (Foslie 1900i: 16) re-elevated to the rank of species within *Goniolithon* (as *G. chalonii*), and then (Foslie 1909b: 5) considered a heterotypic synonym of *Goniolithon notarisii*. Listed as *Lithophyllum chalonii* in Adey & Lebednik 1967: 48]. **Type:** not designated (Woelkerling 1993: 50). **TRH** has one syntype (A28-1588).

[Anon.]; [France]; Banyuls-sur-Mer; [no habitat data]; iv.1899; slide 856; ex herb. Chalon [BR]; [no pfa]; [Note: **Syntype** of *Lithophyllum chalonii* Heydrich. Additional data — Woelkerling 1993: 50. Collection consists only of one slide marked 'ex herb. Chalon Heydrich type'. Word between 'Chalon' and 'Heydrich' is unclear]; **TRH A28-1588**.

coarctatum, *Lithophyllum* (subg. *Porolithon*) [originally described as *Lithophyllum coarctatum* (Foslie 1907a: 31) but subsequently (Foslie 1909c: 57) transferred without change in rank into the newly established genus *Porolithon*]. **Holotype:** TRH, A27-1589 (see below).

[Anon.]; Cocos Keeling-øerne [= Cocos-Keeling Islands]; (11°50'S, 96° 51'E), [no other locality data]; [no habitat data]; [no date]; slides 286, 288, 1429; Josephine Expedition (?); pfa: Printz 1929, pl. 70, fig. 2; [Note: **Holotype** of *Lithophyllum coarctatum* Foslie. Additional data — Woelkerling 1993: 52, and Verheij 1994: 106. Box marked '*Lithoph. (Porolithon) coarctatum* f. *typica*'; **TRH A28-1589**.

coarctatum, *Lithophyllum* (f. *sandvicensis*) [originally described as *Lithophyllum coarctatum* f. *sandvicensis* (Foslie 1907a: 31) but subsequently (Foslie 1909b: 45) the name needlessly changed to *Lithophyllum coarctatum* f. *prona* (a superfluous name — see Woelkerling 1993: 177, 194. Later in the same paper, Foslie (1909b: 57) transferred the species *coarctatum* into *Lithophyllum* without mention of f. *sandvicensis*. Collection listed in Adey & Lebednik 1967: 48 under species without mention of forma]. **Holotype:** TRH, A27-1590 (see below).

[Anon.]; [Hawaiian Islands]; [Oahu], Honolulu; [no habitat data]; [no date]; slide 1370; Eugenie Expedition (?); pfa: Printz 1929, pl. 70, fig. 3; [Note: **Holotype** of *Lithophyllum coarctatum* f. *sandvicensis* Foslie. Additional data — Woelkerling 1993: 194. Box and slide marked '*Lithoph. (Porolithon) coarctatum* f. (*sandvicensis*) *prona*'; **TRH A28-1590**.

dentatum, *Lithophyllum* (f. *sandvicensis*). See listing below for ***sandvicense, Lithophyllum***

gardineri, *Lithophyllum* [originally described as *Lithophyllum gardineri* (Foslie 1907a: 30) but subsequently (Foslie 1909c: 57) transferred without change in rank into the newly established genus *Porolithon*]. **Lectotype:** TRH, A28-1595 (see below).

Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Egmont Atoll; reef [stated on slide 1302] and lagoon shoals [stated on slide 1307]; vi.1905; slides 1302, 1306 [missing], 1307; [no other collection data]; pfa: Foslie 1907e, pl. 15, figs 6-8, and Foslie 1907f, pl. 19, figs 6-8, and Printz 1929, pl. 70, fig. 12; [Note: reference to 1907 figures given on box as 'Lithoth. Sealark Exp. pl. II, fig. 6 and pl. II, fig. 8'. Sealark Exp. = Percy Sladen Trust Expedition to the Indian Ocean in 1905. The collection date on slide 1307 is incorrectly given as '6.1906']; **TRH A28-1591**.

Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; reef, 'paa coral [= on coral]'; v.-vi.1905; slides 1312, 1313 [missing]; [no other collection data]; pfa: Foslie 1907e, pl. 15, fig. 1, and Foslie 1907f, pl. 19, fig. 1, and Printz 1929, pl. 70, fig. 1; [Note:

box marked 'Analyse nr. 30'. Reference to 1907 figures given on box as 'Lithoth. Sealark Exp. pl. II, fig. 1'. Sealark Exp. = Percy Sladen Trust Expedition to the Indian Ocean in 1905. Adey & Lebednik 1967: 48 entry for this collection also incorporates data from a collection of f. *obpyramidata* but in a confusing manner]; **TRH A28-1592**.

Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; [no habitat data]; v.-vi.1905; slides 1314 [missing], 1315-1316; [no other collection data]; [no pfa]; [Note: box notation states that one specimen is transitional to f. *subhemisphaerica* (see comments of Woelkerling 1993: 210 on this taxon). Collection not included in Adey & Lebednik 1967]; **TRH A28-1593**.

Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; [no habitat data]; 5.vi.1905; slide 1317; [no other collection data]; [no pfa]; [Note: box marked 'Præp. 1317 af ekspl. x [= slide 1317 of specimen x]'. Annotation slip in box marked 'Prøve sendt Lemoine jan. 1936 [= sample sent to Lemoine January 1936]'. Collection not included in Adey & Lebednik 1967]; **TRH A28-1594**.

Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Coetivy [Island]; [no habitat data]; ix.1905; slides 1297, 1298 [missing], 1299 [missing]; [no other collection data]; pfa: Foslie 1907e, pl. 15, fig. 4, and Foslie 1907f, pl. 19, fig. 4, and Printz 1929, pl. 70, fig. 8; [Note: **Lectotype** of *Lithophyllum gardineri* Foslie. Additional data — Woelkerling 1993: 102, and Verheij 1994: 106. Box marked 'Største ekspl. m. etik. – Præp. 1297 [= largest specimen with label – slide 1297]' and 'Største uden etik. – Præp. 1298 [= largest without label – slide 1298]' and 'Næstst. uden etik. – Præp. 1299 [= second largest without label – slide 1299]'. Box also marked 'Sporangier [= sporangia]'. Reference to 1907 figures given on box as 'Lithoth. Sealark Exp. pl. II, fig. 4. Sealark Exp. = Percy Sladen Trust Expedition to the Indian Ocean in 1905. Grouped with the type of *Lithophyllum gardineri* f. *obpyramidata* Foslie (A28-1598) under one entry in Adey & Lebednik 1967: 48]; **TRH A28-1595**.

Tilden; Hawaiian Islands; Oahu, Waianae; rocks at low tide; 27.v.1900; slide 795; comm. Prof. Kjellman ii.1902; [no pfa]; [Note: box marked '*Lithoph. subreduncum* f.?' and '= *L. gardineri* f.?'. Box and slide also marked 'No. 65 Miss Tilden']; **TRH A28-1596**.

***gardineri*, *Lithophyllum* (f. *obpyramidata*)** [originally described as *Lithophyllum gardineri* f. *obpyramidata* (Foslie 1907a: 30) and subsequently (Foslie 1909b: 44) retained as a distinct form, but the form not transferred by Foslie (1909b: 57) with the species *gardineri* into *Porolithon*. Collections listed in Adey & Lebednik 1967: 48 under species without mention of forma]. **Lectotype:** TRH, A28-1598 (see below).

Gardiner; Chagos Archipelago; Indiske hav [= Indian Ocean], Salomon Atoll; [no habitat data]; vi.1905; [no slides]; [no other collection data]; pfa: Foslie 1907e, pl. 15, fig. 5, and Foslie 1907f, pl. 19, fig. 5, and Printz 1929, pl. 70, fig. 9; [Note: box marked '*Lithoph. gardineri* f. *emarginata obpyramidata* (overg. [= grading into] f. *typica*'. Reference to 1907 figures given on box as 'Lithoth. Sealark Exp. pl. II, fig. 5'. Sealark Exp. = Percy Sladen Trust Expedition to the Indian Ocean in 1905. Adey & Lebednik 1967: 48 entry for this collection also incorporates data from a collection of f. *gardineri* (f. *gardineri*) but in a confusing manner]; **TRH A28-1597**.

Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Coetivy [Island]; [no habitat data]; ix.1905; slide 1296 [missing]; [no other collection data]; pfa: Foslie 1907e, pl. 15, fig. 7, and Foslie 1907f, pl. 19, fig. 7, and Printz 1929, pl. 70, fig. 11; [Note: **Lectotype** of *Lithophyllum gardineri* f. *obpyramidata* Foslie. Additional data — Woelkerling 1993: 160, Verheij 1994: 106, and Woelkerling 1998c: 313. Box marked '*Lithoph. gardineri* f. *emarginata obpyramidata*'. Annotation slip in box marked 'Præp. 1296 ligner præp. 1299, præp. 1297? [= slide 1296 resemble slide 1299, slide 1297?]. Slides 1297 & 1299 are part of collection A28-1595. Another annotation slip in box marked 'Prøve sendt Lemoine jan. 1936 [= sample sent to Lemoine January 1936]'. Grouped with the type of *Lithophyllum*

gardineri Foslie (A28-1595) under one entry in Adey & Lebednik 1967: 48]; **TRH A28-1598**.

gardineri, Lithophyllum (f. subhemisphaerica) [originally described as *Lithophyllum gardineri* f. *subhemisphaerica* (Foslie 1907a: 30) and subsequently (Foslie 1907e: 106, 1907f: 190, 1909b: 44) retained as a distinct form, but the form not transferred by Foslie (1909b: 57) with the species *gardineri* into *Porolithon*]. **Lectotype (designated here): TRH, A28-2776** (see below).

Gardiner; Chagos Archipelago; [Indian Ocean], Egmont Atoll; reef; vi.1905 [but see Note]; slide 1309; [no other collection data]; pfa: Printz 1929, pl. 71, fig. 1 [also depicted in Foslie 1907e, pl. 16 and Foslie 1907f, pl. 20]; [Note: **Lectotype** of *Lithophyllum gardineri* f. *obpyramidata* Foslie. Lectotype designated here by Wm J. Woelkerling. Collection includes a large specimen, one slide, a small empty box (with several fragments but with all older data on cover crossed out), one annotation slip with collection data and a second annotation slip with cell measurements from slide 1309, all housed in a large open box. Collection date on first annotation slip is vi.1905 but is v.-vi.1905 on slide. Collection also includes an open wooden rectangular box with several fragments, one annotation slip and a small round box. Annotation slip marked '~~ikke altern.~~ altern. [= not alternating alternating]'. Small round box is unmarked by contains two fragments and a annotation slip marked 'Finere cell. [finer cells]'. Collection rediscovered during present study in room where Foslie herbarium is now housed. Collection not included in Adey & Lebednik 1967: 48 and not known to Woelkerling 1993: 210, 285]; **TRH A28-2776**.

inaequilatera, Melobesia [originally described as *Melobesia inaequilatera* (Solms-Laubach 1881: 12) but subsequently (Foslie 1909b: 56) transferred without change in rank into *Heteroderma*]. **Type:** not designated (see Chamberlain 1983: 395) but possibly at **GOET** (Stafleu & Cowan 1985: 729).

[Anon.]; [France]; St. Vaast-la-Hougue; [no habitat data]; 21.vi.1904; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH A28-1599**.

labradorensis, Lithothamnion [originally described as *Lithothamnion labradorensis* (Heydrich 1901a: 538). Foslie (1905c: 31, footnote 1) subsequently questioned the collection locality and the generic placement without reaching any conclusions in print, but single collection in Foslie's herbarium labelled '*Lithoph. labradorensis* Heydrich' (*[Lithoph. = Lithophyllum]*). **Holotype: PC**, General Herbarium (Woelkerling 1998c: 350).

Lamare-Piquot; [Canada]; Labrador; [no habitat data]; [no date]; slides 657, 1011; Herb. Mus. Paris [**PC**], number 17; [no pfa]; [Note: **Holotype fragments** of *Lithothamnion labradorensis* Heydrich. Additional data — Woelkerling 1993: 134 and Woelkerling 1998c: 350. Box marked 'Brudstk., ng. senere mere fra Har. [= fragments, some more later from Hariot]'. Collection includes four identical photographs of the holotype in **PC** marked '*Lith. labradorensis* Heydr.' and 'c. 2/3 naturl. st. [= ca 2/3 of natural size]' and 'Expl. st. Igd. c. 8 cm [= specimen largest length ca 8 cm]' and 'Herb. Mus. Paris'. Adey & Lebednik 1967: 48 mistakenly list the collector as 'Digue'; **TRH A28-1600**.

[Anon.]; [geographic region uncertain, but see Note]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Kew Gardens Herb. [**K**]; [no pfa]; [Note: collection consists of one fragment in a box marked '*Lithoth. labradorensis* Heydr.?' and 'Kew Gardens Herb.' and 'stk. af ekspl. uden lok. [= piece of specimen without locality]' and '12.1905'. The date xii.1905 probably was the date the specimen was received by Foslie. Algal collections originally at **K** are now housed at **BM**. The only mention of *Lithothamnion labradorensis* in the **BM** catalogue of Tittley et al. 1984 (p. 33) suggests that the material came from an unknown locality in Australasia/Antarctica. Woelkerling (1993: 134) incorrectly in-

cluded the Kew specimen in the same box as the **TRH** holotype fragments of *Lithothamnion labradorens* (A28-1600)]; **TRH A28-1546**.

lithophylloides*, *Lithophyllum [originally described as *Lithophyllum lithophylloides* (Heydrich 1901a: 531, as *L. lithophylloides* f. *phylloides*). Subsequently (Foslie 1901d: 21) considered a heterotypic synonym of *Lithothamnion rugosum* Foslie, but later (Foslie 1907a: 10-11) again recognized as a distinct species but transferred into *Lithothamnion* (i.e. *Lithothamnion lithophylloides* (Heydrich) Foslie)]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 316).

Diguet; [Mexico]; [Gulf of] California, Bay [= Bahia] de La Paz; [no habitat data]; 1894; slide 667; [ex] Herb. Mus. Paris [**PC**], number 10; [no pfa]; [Note: **Holotype fragments** of *Lithophyllum lithophylloides* Heydrich. Additional data — Woelkerling 1993: 138, Woelkerling 1998c: 316, and Riosmena-Rodriguez et al. 1999: 404. Box marked '*Lithophyllum lithophylloides* Heydr. f. *phylloides* Heydr.' and '= *Lithoth. rugosum*' with references to protologue (Heydrich 1901a) and Foslie's assessment (Foslie 1901d). Grouped with a collection of *L. lithophylloides* f. *brachiata* (A28-1602) under one entry in Adey & Lebednik 1967: 48, who mistakenly list the collection locality as 'California, United States']; **TRH A28-1601**.

***lithophylloides*, *Lithophyllum* (f. *brachiata*)** [originally described as *Lithophyllum lithophylloides* f. *brachiata* (Heydrich 1901a: 531). Foslie (1907a: 10) suggested that his material of f. *brachiata* might be a stunted specimen of *Goniolithon frutescens* probably f. *subtilis* but did not come to a firm conclusion. Collection listed in Adey & Lebednik 1967: 48 under species without mention of forma]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 316).

Diguet; Mexico; [Gulf of] California, Baie [= Bahia] de La Paz; [no habitat data]; 1894; slide 668; ex Herb. Mus. Paris [**PC**], number 14; [no pfa]; [Note: **Holotype fragments** of *Lithophyllum lithophylloides* f. *brachiata* Heydrich. Additional data — Woelkerling 1993: 42, Woelkerling 1998c: 316, and Riosmena-Rodriguez et al. 1999: 404. Larger original box marked '*Lithophyllum lithophylloides* Heydr. f. *brachiata* Heydr.' with reference to protologue (Heydrich 1901a). Larger box also marked '(Mexico) tropisk [= tropic]'. Annotation slip in box marked 'Baie'. Collection includes fragments in a small box marked 'Præp. [= slide] 668' with an annotation slip inside marked 'Ingen konc. [= without conceptacles]'. Collection also includes another small box marked 'Koncept.? [= conceptacles?]. Collection also includes four identical photographs of material said to be in **PC** but specimen in photos does not closely resemble the **PC** holotype material depicted by Woelkerling 1998c: 316, figs 186-187. Grouped with a collection of *L. lithophylloides* (f. *lithophylloides*) (A28-1601) under one entry in Adey & Lebednik 1967: 48, who mistakenly list the collection locality as 'California, United States']; **TRH A28-1602**.

oblimans*, *Lithophyllum [originally described as *Lithothamnion oblimans* (Heydrich 1897a: 55), but subsequently (Heydrich 1897c: 410) transferred without change in rank into *Lithophyllum*, then (Foslie 1898b: 9) into *Goniolithon*, and then (Foslie 1900i: 17) changed back to *Lithophyllum*, and finally (Foslie 1909b: 9) treated as a heterotypic synonym of *Goniolithon myriocarpum* f. *confragosa*. Also transferred as a distinct species into *Phymatolithon* (De Toni 1905: 1726) but this placement not mentioned by Foslie in publication. Collection listed under *Lithophyllum oblimans* in Adey & Lebednik 1967: 48]. **Type:** apparently not designated, and original material probably destroyed (Stafleu & Cowan 1979: 187). There is no syntype material in **TRH**.

Faurot; [Djibouti]; Gulf of Tadjoura, Obock; [no habitat data]; 1885; two slides numbered 26; ex Herb. Thur. - Born. [**PC**]; [no pfa]; [Note: larger original box is marked 'sam. 2-3 arter!]

[= collection of two-three species!] and 'det. Herb. Bornet'. Annotation slip in larger box gives collection locality as 'Obock, Mer Rouge'. Collection includes two smaller original boxes, one marked 'M. Foslie' and the other marked 'G. *oblimans*' and 'sp. konc. [= sporangial conceptacles]'. Both slides marked 'Røde hav [= Red Sea]'; **TRH A28-1603**.

praetextatum*, *Lithophyllum [originally described as *Lithophyllum praetextatum* (Foslie 1907a: 31) but subsequently (Foslie 1909b: 57) transferred without change in rank into the newly established genus *Porolithon*]. **Holotype: TRH, A28-1604** (see below).

Agassiz; Easter Island; ca 113°45'W and 28°45'S, [no other locality data]; [no habitat data]; 21.xii.1904; slides 1497-1498; comm. Farlow 1907, number 16; pfa: Printz 1929, pl. 70, fig. 7; [Note: **Holotype** of *Lithophyllum praetextatum* Foslie. Additional data — Woelkerling 1993: 175. One annotation slip in box marked 'Herb. W.G. Farlow' **[FH]**. Another annotation slip in box marked '(Visstnok) 1497, Ingen sporer [= (perhaps) 1497, without spores]'; **TRH A28-1604**.

sandvicense*, *Lithophyllum [originally described as *Lithophyllum dentatum* f. *sandvicensis* (Foslie 1901a: 11) but subsequently (Foslie 1909b: 45) raised to the rank of species, namely *Lithophyllum sandvicense*, and then (Foslie 1909b: 57) later in the same paper transferred without change in rank into *Porolithon*]. **Holotype: TRH, A28-1605** (see below).

Barnard; Sandwich Islands [now the State of Hawaii of the United States]; [no other locality data]; [no habitat data]; 1858; slide 502; comm. Farlow 1900, number XXX; pfa: Printz 1929, pl. 70, fig. 6; [Note: **Holotype** of *Lithophyllum dentatum* f. *sandvicensis* Foslie. Additional data — Woelkerling 1993: 194. Box marked '*Lithoph. dentatum* f. *sandvicensis* = *Lithoph. (Porolithon) sandvicense*'. Slide marked '*Lithophyllum dentatum* (Kuk.) Fosl. f. *sandvicense* Fosl.'. Collection includes one fragment in a small box marked '502'. Annotation slip in box marked 'Herb. W.G. Farlow' **[FH]**]; **TRH A28-1605**.

Mixed fossil species collection [the following collection, not included in Adey & Lebednik 1967 or in Woelkerling 1993, but found in Drawer A28 during the present study, contains a mixture of isotype material of up to four species (representing four genera) described by Howe (1934), twenty-five years after Foslie's death]

Keenan; [United States]; California, Santa Barbara County, Indian Creek; in Sierra Blanca Limestone (Eocene), collected at an altitude of 300-3500 feet; ix.1930; [no slides]; Leland Stanford Junior University locality 930, comm. M.A. Howe, mis. 31.vii.1934; [no pfa]; [Note: **Isotype rock sample** possibly containing type material of *Archaeolithothamnion keenani* Howe, *Lithophyllum sierrae-blancae* Howe, *Lithothamnion laminosum* Howe, and *Mesophyllum schenckii* Howe. Additional data — Howe 1934: 507-518 and Woelkerling 1998c: 285, 326, 351, 383. Collection information on two typed labels marked 'from Herbarium of the New York Botanical Garden' **[NY]**. One **TRH** collection number has been used for the rock sample because occurrence of named species has not been confirmed]; **TRH A28-3821**.

Inadequately documented collection

The following inadequately documented collection was found in Drawer A28 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; two slides marked 'Evienx OH27'; [no other collection data]; [no pfa]; [Note: collection consists of two slides inside a packet that could not be linked to a collection in Foslie's herbarium. Collection not included in Adey & Lebednik 1967]; **TRH A28-3846**.

Case B, Drawer 1

During the present study, some notes containing information that could not be linked to any particular collection were found loose in Drawer B1. These now have been placed in an unnumbered box labelled 'Loose notes from Drawer B1'. In addition, six collections lacking information were found. Each has been marked 'Unlabelled collection found in Drawer B1'. In addition, several unidentified photos were found. These have been grouped together in an envelope marked 'Loose photos found in Drawer B1 that cannot be matched with certainty to particular specimens'.

absonum, *Lithothamnion* [originally described as *Lithothamnion absonum* (Foslie 1907b: 4), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, B1-1606 (see below).

Gabriel; Australia; [Victoria], Richard's Point, Port Phillip Bay; littoral; 1901; slides 1527-1529; [no other collection data]; pfa: Printz 1929, pl. 1, figs 11-12; [Note: **Holotype** of *Lithothamnion absonum* Foslie. Additional data — Woelkerling 1993: 14. Box marked '*L. repandum absonum*' and '1 ekspl. præp. 1527-28. 4 delte-sp., 1 ekspl. præp. 1529 ikke sp., 3 øvrige ekspl. ikke sp. [= 1 specimen slide 1527-28. 4-parted sporangia, 1 specimen slide 1529 no sporangia, three remainder specimens no sporangia]'. Annotation slip in box marked 'Port Philip Bay, Victoria, Gabriel, 1901, Finder ej sp. [= find no sporangia], Største ekspl. flerp. konc. [= largest specimen several pores conceptacles]' and '*L. repandum*']; **TRH B1-1606**.

acervatum, *Lithothamnion* [originally described as *Lithothamnion acervatum* (Foslie 1907b: 7), but not mentioned in Foslie's subsequent publications]. **Lectotype:** TRH, B1-1607 (see below).

Weber-van Bosse; Sydafrika [= South Africa]; Knysna; [no habitat data]; 1893; slides 704, 1523 [missing]; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 14; [Note: **Paratype** of *Lithothamnion acervatum* Foslie. Additional data — Chamberlain & Keats 1994: 111-112, who mistakenly refer to the collection as a syntype, and Woelkerling 1993: 16, who incorrectly included this collection and B1-1607 as part of the 'holotype'. Box marked '*Lith. tenuissimum acervatum*'. Collection date marked on slide. Grouped with B1-1607 under one entry in Adey & Lebednik 1967: 49]; **TRH B1-1608**.

Weber-van Bosse; Sydafrika [= South Africa]; Natal; [no habitat data]; 1893; slide 702; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 15; [Note: **Lectotype** of *Lithothamnion acervatum* Foslie. Additional data — Chamberlain & Keats 1994: 111-112, and Woelkerling 1993: 16, who incorrectly included this collection and B1-1608 as part of the 'holotype'. Box marked '*Lith. tenuissimum acervatum*'. Grouped with B1-1608 under one entry in Adey & Lebednik 1967: 49]; **TRH B1-1607**.

asperulum, *Lithothamnion* [originally described as *Lithothamnion repandum* f. *asperula* (Foslie 1906b: 5) but subsequently (Foslie 1907b: 6) raised to the rank of species, namely *Lithothamnion asperulum*]. **Lectotype:** TRH, B1-1609 (see below).

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone; 1904; slides 1139, 1141-1142, 1167-1168; Setchell specimen numbers 6346-6348; pfa: Printz 1929, pl. 1, figs 4-6; [Note: **Lectotype** of *Lithothamnion repandum* f. *asperulum*. Additional data — Woelkerling 1993: 31, and Wilks & Woelkerling 1994: 195. Collec-

tion consists of three round boxes housed in a newer brown box. Largest round box marked (since Foslie's death in an unknown hand) with collection and slide data and also marked '*Lith. repandum* f. *asperulum* (og o [= as well as] *Lpm. detrusum*)'. Specimen 6346 (in a smaller original box inside the larger original box), which includes slides 1141 & 1142, reported missing (Adey 1970b: 29) but rediscovered during the present study and reunited with the rest of the lectotype element. Lid of this box marked (partly by Foslie) '#6346, Setchell, 1904, New Zealand, North Island, Island Bay, *Lithoth. repandum* f. *asperulum* (og o [= as well as] *Lithoph. detrusum*), uppermost sublit. zone, præp. [= slide] 1141, 1142 ved [= at] x, pl. 1, fig. 5'. Third original box (also rediscovered during present study) is empty but is marked (partly by Foslie) with collection data and with '#6347' and '*Lithoth. repandum* f. *asperulum* (o [= and] *Lithoph. detrusum*)' and 'præp. [= slide] 1139' and 'Lith, Monogr. pl. 1, fig. 6'. Two slips printed with 'Herbarium of the University of California, North Island, New Zealand, W.A. Setchell 1904' [UC] also are annotated by hand with locality data and with the collection number 6346 on one and 6347 on the other]; **TRH B1-1609.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone; 1904; slide 1182; Setchell collection number 6341; [no pfa]; [Note: box marked '*Lithoth. repandum* f. *asperulum* (og o [= as well as] *Lithoph. detrusum*)'. Larger original box contains one fragment in a small box marked '1182'. Slip printed with 'Herbarium of the University of California, North Island, New Zealand, W.A. Setchell 1904' [UC] also is annotated by hand with locality and date data and with collection number 6341]; **TRH B1-1610.**

corticiformis, *Lithothamnion* [originally described as *Melobesia corticiformis* (Kützting 1847: 33) but then (Foslie 1898a: 4) transferred without change in rank into *Lithothamnion*, where Foslie retained it in publication. Some Foslie herbarium collections marked with the generic name *Lithothamnion*, others with *Melobesia*]. **Holotype:** L, 943.68-281 (Woelkerling & Verheij 1995: 42).

Foslie; Irland [= Republic of Ireland]; Roundstone; on *Rhodymenia palmata*; 18.iv.1899; five unnumbered slides; [no other collection data]; [no pfa]; [Note: packet containing specimens marked 'Afkalk, præp. [= decalcified slides]'. Host data on annotation slip inside packet and on slides]; **TRH B1-1611.**

Hochstetter [probably C.F. Hochstetter]; Azoren [= Azores]; [no other locality data]; 'übergiert [= growing over] *Gelidium corneum*'; [no date]; [no slides]; ex. Herb. K.K. Naturhist. Hofmus, Wien [W]; [no pfa]; [Note: box marked '*Melobesia corticiformis*' and '= *L. membr.*']; **TRH B1-1613.**

Tyson; [South Africa]; Key Mouth; [no habitat data]; [no date]; [no slides]; packet marked 'W. Tyson Algae austro-africa'; [no pfa]; [Note: other specimens from this gathering may have been used in Tyson's exsiccata 'South African Marine Algae'. Additional data — Sayre 1969: 104]; **TRH B1-1612.**

[Anon.]; [France]; Bruneval; [no habitat data]; viii.1879; [no slides]; collection number 108; [no pfa]; [Note: packet marked '*Melobesia membranacea?* *corticiforme*'. Another packet from the same locality and date filed under *Dermatolithon pustulatum* (A17-1159) includes material of *Melobesia corticiformis*. Adey & Lebednik 1967: 49 mistakenly list the name 'Brureval' as a collector rather than a locality]; **TRH B1-1616.**

[Anon.]; [France]; La Galite; [no habitat data]; viii.1880; [no slides]; collection number 99; [no pfa]; [no notes]; **TRH B1-1617.**

[Anon.]; [France]; Meurouria; [no habitat data]; 7.ix.1880; [no slides]; collection number 100; [no pfa]; [no notes]; **TRH B1-1619.**

[Anon.]; [France]; Seine-Inférieure, Bénouville; [no habitat data]; 1882; [no slides]; collection number 109; [no pfa]; [Note: packet marked '*Melobesia membranacea corticif.*' and '... 1883' [the word before the date looks like Tenur but no locality or person with this name

- could be found, and the word seems connected to the date]. Adey & Lebednik 1967: 49 mistakenly list collection date as '1883' and list 'Tenur' as a collector]; **TRH B1-1615**. [Anon.]; [United Kingdom]; Berwick; [no habitat data]; i.1889; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 49 but not found during present study. Compare with entry for B1-1659. Berwick is more likely to be Berwick-upon-Tweed England than Berwick County Scotland on the basis of information in Batters 1890a & 1890b and on **TRH** collections B5-1870 & B5-1968]; **TRH B1-1618**. [Anon.]; [geographic region uncertain]; [no locality data, but see Note]; on *Chondrus crispus*; 18.viii.1884; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melob. corticif. f. aqualis*' and 'Laner 18/8 84 ~~stacuum~~ Fosl.'. The name *Melobesia corticiformis f. aqualis* apparently has not been formally published. Annotation slip inside packet has collection data in an unknown handwriting and is annotated by Foslie on the reverse side with 'Udtaget [= taken out *M. farin. f. borealis* (?) paa [= on] *L. membr.*'. The part taken out is probably A15-948, listed under *Melobesia lejolisii*. It is unclear whether 'Laner' is a local locality name (possibly Lanes near Tromsø, Norway) or a collector. Adey & Lebednik 1967: 49 list 'Laner' as a collector, but no further information could be found on this name during the present study]; **TRH B1-1614**.

corticiformis, *Melobesia*. See listing under *Lithothamnion corticiformis*, the last combination proposed and used by Foslie

crenulatum, *Lithothamnion* [originally described as *Lithothamnion magellanicum f. crenulata* (Foslie 1905e: 17) but subsequently (Foslie 1907b: 5) raised to the rank of species, namely *Lithothamnion crenulatum*]. **Holotype**: **TRH**, B1-1620 (see below).

[Anon.]; South Orkney Islands; Scotia Bay; collection depth: 9-10 fathoms, 'paa [= on] *Lithoph. decipiens*'; vii.1903; slides 953-955; Skotske antarkt. Ekp. "Scotia" [= Scottish National Antarctic Expedition 1902-1904]; pfa: Printz 1929, pl. 2, fig. 11; [Note: **HOLOTYPE** of *Lithothamnion magellanicum f. crenulatum* Foslie. Additional data — Woelkerling 1993: 67. Box marked '*Lith. magellanicum f. crenulatum*' and 'Største ekspl. [= largest specimen] pl. 2, fig. 11'. Box cover also annotated to indicate that *L. aequabile* and *L. decipiens* also are present. Collection includes three small boxes with fragments used to prepare each slide. Slide 955 marked 'paa [= on] *Lithoph. decipiens*'; **TRH B1-1620**.

galapagense, *Lithothamnion* [originally described as *Lithothamnion galapagense* (Foslie 1907a: 9) but subsequently (Foslie 1909b: 55) transferred without change in rank into *Epilithon*. Name not updated on collection in Foslie herbarium, probably due to Foslie's death on 9.xi.1909]. **Holotype**: **TRH**, B1-1621 (see below).

Snodgrass & Heller; Galapagos [Archipelago]; Wenman Island; [no habitat data]; xii.1888 [= 1898 - see Note]; slide 1363 and one unnumbered slide; comm. Farlow, 1907; [no pfa]; [Note: **Holotype** of *Lithothamnion galapagense* Foslie. Additional data — Woelkerling 1993: 102. An empty packet in box marked 'Wenman Isl, Galapagos Isl., comm. Farlow (1907), *Melobesia corticiformis* Farl. = *Lithoth. galapagense* Fosl' and 'Thallop. and Musci of the Galapagos Isl.' and 'Fotogr. [= photographed]'. Annotation slip in box is marked 'Herb. W.G. Farlow [FH], *Melobesia corticiformis*, on *Gelidium serrulatum*, Wenman Isl. Galapagos, Snodgrass & Heller'. Collection includes two photos marked '*L. galapagense*'. Collection date incorrectly given as 1888 on box and so recorded in Adey & Lebednik 1967: 49 and Woelkerling 1993: 102. The error stems from a misprint in Farlow (1902: 98 under entry for *Melobesia corticiformis*) Snodgrass & Heller Galapagos collections date from 1898-1899, as noted in other dated entries in Farlow 1902]; **TRH B1-1621**.

hildenbrandtioides*, *Melobesia [originally described as *Hapalidium hildenbrandtioides* (P.L. & H.M. Crouan 1867: 149) but subsequently (Foslie 1898b: 11) transferred without change in rank into *Melobesia*, and then (Foslie 1900b: 9) considered to be a heterotypic synonym of *Lithothamnion corticiformis* (Kützinger) Foslie (see separate listing above for this taxon). Names not updated on some collections in Foslie herbarium. Collections listed under *Melobesia hildenbrandtioides* in Adey & Lebednik 1967: 49]. **Lectotype: PC**, General Herbarium (Woelkerling 1998c: 294).

[Anon.]; [France]; Brest; 'paa [= on] *Rh. palmata*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Hapalidium hildenbrandtioides* Cr.']; **TRH B1-1623**.

[Anon.]; [France]; [Finistère], [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Crouan [dispersed amongst several institutions, according to Stafleu & Mennega 1997: 480]; pfa: Crouan & Crouan 1867, p. 149, genre 131, pl. 20; [Note: box marked by Foslie '*Melobesia hildenbrandtioides* = *L. corticif.*' (see Foslie 1900b: 9). Woelkerling (1993: 119) referred to this collection as syntype, but the species has since been lectotypified (see Woelkerling 1998c: 294) and it is no longer clear what the relationship is between the designated lectotype and this **TRH** collection (Woelkerling 1998c: 295)]; **TRH B1-1622**.

[Anon.]; [Norway]; Mandal; 'paa [= on] *Laurencia obtusa*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: specimen marked '*Hapalidium hildenbrandtioides* [Cr.]. Collection not included in Adey & Lebednik 1967]; **TRH B1-1624**.

islei*, *Lithothamnion [originally described as *Lithothamnion islei* (Heydrich 1901a: 538) but subsequently treated by Foslie (1901d: 25) as a heterotypic synonym of *Lithothamnion californicum* (collections in Drawer B2). Collection listed under *Lithothamnion islei* in Adey & Lebednik 1967: 49]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 348).

De l'Isle; Isle d'Amsterdam [= Amsterdam Island], [in South Indian Ocean]; [no other locality data]; [no habitat data]; 20.xii.1874; slide 670; [ex] Herb. Mus. Paris [**PC**], number 24; pfa: Printz 1929, pl. 2, fig. 10; [Note: **Holotype fragment** of *Lithothamnion islei* Heydrich. Additional data — Woelkerling 1993: 131 (who incorrectly equated Amsterdam Island with the island of Tongatapu) and Woelkerling 1998c: 348. Box and slide marked '*Lithothamnion islei* Heydr.' with the name '*L. californicum*' crossed out (see Foslie 1901d: 25). Collection includes a small packet marked 'Nr. 10' and '*L. islei*' and 'sp. konc. fotogr. [= sporangial conceptacles photographed]'. Collection also includes three photos Adey & Lebednik 1967: 49 mistakenly list the collector as 'Heydrich']; **TRH B1-1625**.

***magellanicum*, *Lithothamnion* (f. *crenulatum*)**. See listing above for *crenulatum*, *Lithothamnion*

marginata*, *Melobesia [originally described as *Melobesia marginata* (Setchell & Foslie in Foslie 1902a: 10) but subsequently (Foslie 1906b: 25, 26) transferred without change in rank into *Lithophyllum* then (Foslie 1908d: 4) into *Lithothamnion*, and finally (Foslie 1909b: 55) into *Epilithon*. Generic names on packets vary, and some packets marked *L. membranacea* f. *marginata*, a combination never validly published]. **Lectotype: TRH**, B1-1629 (see below).

Anderson, A.J.; Amerika [= America] [meaning United States]; Washington, Neab Bay; on *Gymnogongrus linearis*; [no date]; slide 1516 and one unnumbered slide; ex herb. W.G. Farlow [**FH**], 1907; [no pfa]; [Note: packet marked 'C' and '= *L. membr. f. marg.* = *Lithophyllum marginatum* Setch. et Fosl.' and 'Obs. sp.! tegn. [= observed sporangia! drawing]'. Collection originally found in one box together with five other collections (B1-1627, B1-1628, B1-1669, B1-1673, B1-3822)]; **TRH B1-1626**.

Cooper; [United States]; California, Santa Barbara; [no habitat data]; [no date]; [no slides]; ex herb. W.G. Farlow [FH], 1907; [no pfa]; [Note: packet marked 'B.' and '= *Melobesia rugulosa* Setchell et Foslie = *L. membr. f. marginata*'. Collection originally found in one box together with five other collections (B1-1626, B1-1628, B1-1669, B1-1673, B1-3822). Entry in Adey & Lebednik 1967: 49 reads 'Collins, California, Santa Barbara']; **TRH B1-1627.**

Gardner; Amerika [= America] [meaning United States]; Washington, Whidbey Island; on *Odonthalia*; 1901; one unnumbered slide; Algae of Puget Sound, number 269, distributed by Setchell & Gardner; [no pfa]; [Note: box marked '*M. marginata* = *L. membr. f. marg.* (steril [= sterile])'. Annotation slip in box with collecting information signed 'N.L.G. [= N.L. Gardner]'. Another annotation slip marked 'En og flerp. af spritmat. [= uniporate and several pored [conceptacles] from spirit material]', apparently contradicting information on box cover. No spirit material was found during present study. Name of collector confirmed by Mason (1953: 321). Adey & Lebednik 1967: 49 mistakenly list 'Setchell & Gardner' as the collectors]; **TRH B1-1634.**

Gardner; Amerika [= America] [meaning United States]; Washington, Whidbey Island; on *Laurencia pinnatifida*; 1901; two slides labelled Algae of Puget Sound, number 270; Algae of Puget Sound, number 270, distributed by Setchell & Gardner; [no pfa]; [Note: box marked '*M. marginata* = *L. membr. f. marg.*'. Annotation slip in box with collecting information signed 'N.L.G. [= N.L. Gardner]'. Another annotation slip marked 'En og flerp. konc. paa ekspl. i glas [= uniporate and several pored conceptacles in glass jar]'. No glass jar was found during present study. Name of collector confirmed by Mason (1953: 321). Adey & Lebednik 1967: 49 mistakenly list 'Setchell & Gardner' as the collectors]; **TRH B1-1635.**

Gibbs; [United States]; California, Bodega Bay; on *Laurencia pinnatifida*; 10.xii.1898; slide 1348; R.E.G. [= R.E. Gibbs] collection number 68; [no pfa]; [Note: **Lectotype** of *Melobesia marginata* Setchell & Foslie in Foslie. Additional data — Woelkerling 1993: 145. Box marked '*Melobesia marginata* (Setch. & Fosl. mscr.)' and '*L. marginatum* = *L. membr. f. marg.*'. One annotation slip in box marked 'En og flerp. konc. [= uniporate and several pored conceptacles]'. Another annotation slip marked '#68, R.E.G. [= R.E. Gibbs]'. An unnumbered slide in B1-1632 has the same collecting date as this collection]; **TRH B1-1629.**

Gibbs; [United States]; California, Bodega Bay; on *Gymnogongrus linearis*; 10.xii.1899 [but see Note]; one unnumbered slide dated 10.xii.1899 and one unnumbered slide dated 10.xii.1898; [no other collection data]; [no pfa]; [Note: box marked '*Melobesia. marginata* Setch. & Gibbs mscr.' and '*M. marginata* Setch. & Fosl. = *L. membr. f. marg.*'. One annotation slip in box marked '#8, R.E.G. [= R.E. Gibbs]'. Another annotation slip marked 'Største ekspl. [= largest specimen]' and 'Enp. konc. til fotogr. [= uniporate (enporede) conceptacles for photography]'. The collection date almost certainly is 10.xii.1898 (same as the lectotype, see B1-1629) and not 10.xii.1899 as recorded on the box and on one slide]; **TRH B1-1632.**

Nichols; [United States]; California, San Francisco; on *Gymnogongrus*; 18.x.1906; two slides labelled 13f 6 and 13c 7; [no other collection data]; [no pfa]; [Note: collection consists only of two slides and of two photos. Collection from which slides were prepared is in **UC** and is cited in Mason (1953: 322) as '*Nichols 13*'. Slides originally found in one box together with five other collections (B1-1626, B1-1627, B1-1628, B1-1673, B1-3822). Collection not included in Adey & Lebednik 1967; **TRH B1-1669.**

Nichols; [United States]; California, San Francisco; on *Gymnogongrus*; 5.xi.1907; [no slides]; Herbarium of M.B. Nichols [**UC**]; [no pfa]; [Note: annotation slip in box marked '*L. marginatum* = *L. membr. f. marg.*'. This collection originally may have included B1-1633]; **TRH B1-1631.**

[Nichols] [but see Note]; [United States]; California, San Francisco; 'paa [= on] *Gymnogongrus*'; 5.xi.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'fotogr.

- [= photographed]'. This collection may originally have been part of B1-1631. Collector presumed to be Nichols based on information in B1-1631]; **TRH B1-1633.**
- Saunders; [United States]; California, 'probably Pacific Grove near Monterey'; on *Laurencia spectabile*; [no date]; [no slides]; comm. W.G. Farlow (1907); [no pfa]; [Note: packet marked 'C. = *L. membr. f. marg.*' and '*Lithoph. (Derm.) marginatum* (& smaa sk. af *Lithoph. pustulatum*) – ogass særsk. [= (& small crusts of *Lithophyllum pustulatum*) – also distinct]'. One annotation slip in packet marked 'flerp. konc. til fotogr. [= several-pored conceptacles for photography]'. Host and collector information written by Farlow on another annotation slip marked 'Herb. W.G. Farlow' [**FH**]. Collection originally found in one box together with five other collections (B1-1626, B1-1627, B1-1669, B1-1673, B1-3822). Entry in Adey & Lebednik 1967: 49 reads 'Farlow, California, Pacific Grove, 1907' and pertains both to B1-1628 and B1-1673]; **TRH B1-1628.**
- Saunders; [United States]; California, 'probably Pacific Grove near Monterey'; on *Stenogramme interrupta*; [no date]; [no slides]; comm. W.G. Farlow (1907); [no pfa]; [Note: packet marked 'A. *Melobesia rugulosa* Setch & Fosl. = *L. membr. f. marginata*'. Host and collector information written by Farlow on an annotation slip marked 'Herb. W.G. Farlow' [**FH**]. Collection originally found in one box together with five other collections (B1-1626, B1-1627, B1-1628, B1-1669, B1-3822). Entry in Adey & Lebednik 1967: 49 reads 'Farlow, California, Pacific Grove, 1907' and pertains both to B1-1673 and B1-1628]; **TRH B1-1673.**
- Snyder; [United States]; California, San Diego; [no habitat data]; [no date]; [no slides]; comm. [F.S.] Collins. X.1907; [no pfa]; [Note: specimen marked '= *Melob. rugulosa*' and '= *L. membr. f. marginata*'. Collection originally found in one box together with five other collections (B1-1626, B1-1627, B1-1628, B1-1669, B1-1673). Collection not included in Adey & Lebednik 1967]; **TRH B1-3822.**

membranacea, *Melobesia* [originally described as *Corallina membranacea* (Esper 1796b: pl. Corallina XII). Subsequently (Lamouroux 1816: 315) transferred without change in rank into *Melobesia*, then (Heydrich 1897c: 408) into *Epilithon*, then (Foslie 1898b: 7) into *Lithothamnion*, and finally (Foslie 1909b: 55) again placed in *Epilithon*. Names on packets not updated from *Lithothamnion* to *Epilithon*, probably due to Foslie's death on 9.xi.1909]. **Neotype: CN**, Lamouroux Herbarium, unnumbered (Camberlain 1985: 677).

- Foslie; [Norway]; Bolærene [now Bolærne]; 'paa [= on] *Cyst. purpurasc.*'; 31.viii.1881; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia membranacea*? Adey & Lebednik 1967: 50 entry reads 'Botorene 31.8.1881']; **TRH B1-1638.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality]; collection depth: ca 5 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum*'. Adey & Lebednik 1967: 50 mistakenly give the collection locality as Fredrikshavn, Denmark and do not mention the collection depth]; **TRH B1-1639.**
- Foslie; [Norway]; Hvaløerne [now Hvaler], "Galtene" [now Galtane] ved [= near] Kirkøen [now Kjerkøy]; collection depth: 3-5 fathoms, 'paa [= on] *Furcellaria*'; 12.vii.1905; one unnumbered slide; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum*'. Adey & Lebednik mistakenly give the locality as 'Hvaløerne, Gallene']; **TRH B1-1640.**
- Foslie; [Norway]; Hvaløerne, "Galtene" [now Hvaler, Galtane]; collection depth: 3-5 fathoms, 'paa [= on] *Ch. crispus*'; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum*'. Collection includes small box marked '*L. membranac.*' and 'Hvaløerne, 12.vii.1905' and 'paa [= on] *Chondrus crispus*, Fotogr. [= photograph]' and 'cyst. konc. [= cystocarpic conceptacles]'. Grouped with B1-1642 under one entry in Adey & Lebednik 1967: 50, who omit mention of the collection depth]; **TRH B1-1641.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms, 'paa [= on] *Phyllophora* & *Chondrus*'; 12.vii.1905; [no slides]; [no other collection data]; [no

- pfa]; [Note: packet marked '*L. membranaceum*'. Grouped with B1-1641 under one entry in Adey & Lebednik 1967: 50, who omit mention of the collection depth]; **TRH B1-1642.**
- Foslie; [Norway]; Hvaløerne, Skjærhalden, Storsanden [now Hvaler, Skjærhollen, Storesand]; 'opk. [= washed ashore], paa [= on] *Furcellaria* & *Chondrus*' [but see Note]; 16.vii.1903; seven unnumbered slides; [no other collection data]; [no pfa]; [Note: species name and collector marked on slides but not on box. Some slides labelled '*Epilithon membranaceum*', others '*Lithoth. membranaceum*'. Collection represents a mixture of material on three hosts taken from two habitats and includes some material in glass vial. Annotation lid on glass vial marked 'Paa [= on] *Furcellaria* opk. [= washed ashore] Storsanden' and 'Paa [= on] *Rhodymenia* udenfor [= outside] Storsanden c. 5 fathoms']; **TRH B1-1643.**
- Foslie; [Norway]; Hvaløerne [now Hvaler], Skjærhalden [now Skjærhollen], udenfor [= outside] Storsanden [now Storesand]; collection depth: ca 5 fathoms, 'paa [= on] *Chondrus crispus* og [= and] *Phyllophora rubens*'; 21.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lith. membranaceum*' and '(*M. farinosa* lignende udtaget [= similar to *M. farinosa* taken out)']]; **TRH B1-1644.**
- Foslie; [Norway]; Hvaløerne, Skjærhalden [now Hvaler, Skjærhollen]; collection depth: ca 5 fathoms, 'paa [= on] *Furcellaria*'; 21.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum*'. Grouped with B1-1646 under one entry in Adey & Lebednik 1967: 50]; **TRH B1-1645.**
- Foslie; [Norway]; Hvaløerne [now Hvaler], Skjærhalden [now Skjærhollen], udenfor [= outside] Storsanden [now Storesand]; collection depth: ca 5 fathoms, 'paa [= on] *Furcellaria*'; 21.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lith. membran?* delvis [= in part]' and 'cyst. & anth. [= cystocarpic & antheridial]' and '(anth.? [= antheridia?)]'. Grouped with B1-1645 under one entry in Adey & Lebednik 1967: 50]; **TRH B1-1646.**
- Foslie; [Norway]; Langesund, Rognsfjord, Fuglø [now Rognsfjorden, Fugløya]; collection depth: ca 3-6 fathoms, 'paa [= on] *Furcellaria*'; 11.-12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum*'. One annotation slip in packet marked 'sp. konc. [= sporangial conceptacles]'. Another annotation slip has collecting data but differs slightly from outside of packet in giving date as '11.vii.1907' and collection depth as 'ca 5 fathoms']; **TRH B1-1647.**
- Foslie; [Norway]; Mandal; collection depth: ca 3 fathoms, 'paa [= on] *Furcellaria*'; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*L. membr.*'. Adey & Lebednik 1967: 50 list entry as 'M.F., 15.7']; **TRH B1-1648.**
- Foslie; [Norway]; Skudesnes; [no habitat data]; 24.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. membranaceum?*' and '(ej unders. [= not examined)']]; **TRH B1-1649.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Lamin. st.*'; 18.iv.1899; three unnumbered slides; [no other collection data]; [no pfa]; [Note: box marked '*L. membr. delvis* [= in part]']; **TRH B1-1650.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beeches; [no habitat data]; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked 'med cyst. konc. [= with cystocarpic conceptacles]']; **TRH B1-1651.**
- Foslie; [United Kingdom]; [England], Isle of Wight, Steephill; 'paa [= on] *Furcellaria*' [but see Note]; 19.i.1886; one slide numbered 199; [collection number] 199; [no pfa]; [Note: packet marked '*Melobesia membranacea*'. Host identified as '*Furcellaria*' on packet but as '*Gig. mam.*' on annotation slip inside packet. See Foslie 1893 for list of Isle of Wight algae. Adey & Lebednik 1967: 50 mistakenly list the collection locality as 'Sheephill']; **TRH B1-1636.**
- Foslie; [United Kingdom]; [England], Isle of Wight, Ventor; [no habitat data]; 22.xii.1885; [no slides]; [no other collection data]; [no pfa]; [Note: specimen on a small herbarium sheet marked '*Melobesia membranacea*'. The word 'Sandsynligvis' is written after the species name. See Foslie 1893 for list of Isle of 'Wight algae']; **TRH B1-1637.**

- Kylin; [Sweden]; Halmstad; 'paa [= on] *Lithoderma?*'; 11.vi.1904; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '21' and '*Lith. membranaceum*' and 'Delvis på skjæll [= partly on shell!]' and 'Tag præp.! [= make slide!]. Adey & Lebednik 1967: 50 mistakenly list the collection locality as 'Halmsial']; **TRH B1-1652.**
- Kylin; [Sweden]; Koster; 'paa [= on] *Furcellaria*'; 13.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '6' and '*Lith. membran.*']; **TRH B1-1653.**
- Kylin; [Sweden]; Bohusl. [= Bohuslen], Varberg; 'paa [= on] *Chondrus crispus*'; 20.vi.1903; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists of a packet and a small box inside one larger box. Packet marked '5' and '*Lith. membranaceum*'. Small box marked 'anth. konc. s.m. cyst. konc. [= antheridial conceptacles together with cystocarpic conceptacles]']; **TRH B1-1654.**
- Kylin; [Sweden]; Varberg; [no habitat data]; 5.viii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '7' and '*Lith. membran.*']; **TRH B1-1655.**
- Rosenvinge; Denmark; Lille Grund n.f. [= north of] Fyens Hoved; collection depth: 5 fathoms, 'paa [= on] *fastigiata* [= *Furcellaria fastigiata*]; 12.v.1891; [no slides]; Rosenvinge collection number 1570; [no pfa]; [Note: packet marked '[Ah]' (the code used by Rosenvinge for this collection locality) and '*L. membranaceum*']; **TRH B1-1657.**
- Rosenvinge; Denmark; nord for [= north of] Læsø; collection depth: ca 5 fathoms, 'p [= on] *Chondrus crispus*'; 2.i.1895; [no slides]; Rosenvinge collection number 5601; [no pfa]; [Note: packet marked 'UB' (the code used by Rosenvinge for this collection locality) and '*L. membranaceum* ialf. delvis [= at least partly]' and 'Mere forkalket end sedv. [= more calcified than usual]']; **TRH B1-1658.**
- Rosenvinge; Denmark; Vageren on Ostindiefarer Grund; collection depth: 8 fathoms, 'paa [= on] *Chondrus*'; 31.vii.1894; [no slides]; Rosenvinge collection number 4982; [no pfa]; [Note: packet marked '[RI]' (the code used by Rosenvinge for this collection locality) and '*L. membranaceum*' and 'anth.? konc. [= antheridial? conceptacles]' and 'og cyst.? større [= and cystocarpic? larger]. Adey & Lebednik 1967: 50 mistakenly give the collection year as '1874']; **TRH B1-1656.**
- [Anon.]; [Norway]; Langesund; collection depth: ca 5 fathoms, 'paa [= on] *Phyllophora membranifolia*'; 12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum*']; **TRH B1-1661.**
- [Anon.]; [Norway]; Langesund, Rognsfjord [now Rognsfjorden]; collection depth: 3-6 fathoms, 'paa [= on] *Laminaria*-blad [= *Laminaria* blade]'; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Lithoth. membranaceum* (s. med [= mixed with] *M. lejoisii*)' and 'som særsk. [= which is distinct]']; **TRH B1-1662.**
- [Anon.]; [Norway]; Langesund, Stenbugten [now Steinvika]; collection depth: ca 3 fathoms, 'paa [=on] *Chondrus*'; 12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two small boxes in one somewhat larger box. One small box marked with collecting data and with '*L. membran.*'. Other box marked 'sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B1-1663.**
- [Anon.]; [Norway]; Svinør; 'paa [= on] *C-- rubr.*'; 19.viii.1885; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia (membran.?)*'. Packet includes six sheets, each with a specimen of the host]; **TRH B1-1666.**
- [Anon.]; [Sweden]; Bohuslen; on *Phyll. rubens*; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melob. membranacea*' and 'Aresch.'. Collection not included in Adey & Lebednik 1967]; **TRH B1-1664.**
- [Anon.]; [United Kingdom]; Berwick; 'Paa [= on] *Phylloph. rubens*'; i.1889; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. membr.*' and 'Fotogr. [= photograph]' and 'Sp. konc. [= sporangial conceptacles]'. Collection includes two sheets in a packet marked '*M. corticiformis* fide Batters. One sheet inside packet marked '*L. membranaceum*' and the other marked 'Berwick 1/89' and 'sp. konc. fotogr. [= sporangial conceptacles photographed]'. Berwick is more likely to be Berwick-upon-Tweed England than Berwick County Scotland on the basis of information in Batters 1890a & 1890b and on **TRH** collections B5-1870 & B5-1968]; **TRH B1-1659.**

[Anon.]; [United Kingdom]; [England], Weymouth; on *Furecllaria fastigiata*; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia membrana-cea*']; **TRH B1-1660.**

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slide; Hofmus. Wien; [no pfa]; [Note: collection consists only of slide. Slide marked 'Lith. membr. Phyc. Bor. Amer., fasc., C n.LIX, Ekpl. [= specimen] K.K. naturh. [= Naturhistorisches] Hofmus, Wien]; **TRH B1-1665.**

[Anon.]; [geographic region uncertain]; [no locality data]; 'sur [= on] Lydreni'; 20.v.1890; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '*Melobesia membrana-cea*' and '106' and '*L. corticif.*?' and 'steril? [= sterile?']'. Other words on packet could not be deciphered. Packet lacks contents]; **TRH B1-1667.**

monostromaticum, Lithothamnion [originally described as *Lithothamnion monostromaticum* (Foslie 1903a: 3). Subsequently (Foslie 1904c: 4), the specific epithet *monostromaticum* needlessly changed to *melobesioides* resulting in the combination *Lithothamnion melobesioides*, and later (Foslie 1909b: 55) *Lithothamnion melobesioides* transferred without change in rank into *Epilithon*. The names *Lithothamnion melobesioides* and *Epilithon melobesioides* both are superfluous and thus nomenclaturally illegitimate].

Holotype: TRH, B1-1670 (see below).

Laing; New Zealand; [no other locality data]; 'paa [= on] *Nitophyllum*'; [no date]; two unnumbered slides [one broken]; ex herb. Reinbold [dispersed amongst several institutions, according to Stafleu & Cowan 1983: 698], [comm.] 1903; [no pfa]; [Note: **Holotype** of *Lithothamnion monostromaticum* Foslie. Additional data — Woelkerling 1993: 153. One slide marked '*Lithoth. melobesioides*'. Inside lid of box marked '*Lith. melobesioides*' and 'Sp. 4 delte [= sporangia 4-parted]' and 'Fotogr. [= photographed]']; **TRH B1-1670.**

notatum, Lithothamnion [originally described as *Lithothamnion notatum* (Foslie 1906b: 26), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, B1-1671 (see below).

Yendo; Japan; Pacific coast of middle Japan, Marine Laboratory at Sagami prov.; [no habitat data]; 1899; slide 1248 [broken, with portion containing specimen missing]; Yendo collection number 352; pfa: Printz 1929, pl. 1, fig. 13; [Note: **Holotype** of *Lithothamnion notatum* Foslie. Additional data — Woelkerling 1993: 159. Box marked '*Lithoth. notatum*, 2 sammenv.?, ene = *L. Yendoi*? [= two coalesced?, the one = *L. Yendoi*?]'. Original box includes small packet marked 'Sp. konc. fot. [= sporangial conceptacles photographed]' and '*L. notatum*, ekspl. præp. 1248 [= specimen slide 1248]']; **TRH B1-1671.**

Yendo; Japan; Misaki; [no habitat data]; iv.1900; slides 693, 1349-1350; Yendo collection number 615; [no pfa]; [Note: collection consists only of three slides and species name is followed by a question mark. Slides 1349 & 1350 marked '*Lithoth. notatum?*, paa anden art [= on a different species]'. Collection not included in Adey & Lebednik 1967]; **TRH B1-1672.**

punctata, *Melobesia*

See collection C18-3346 in the listings for *Lithothamnion mediocre*. *Melobesia punctata* is an herbarium name of Setchell & Gibbs that never has been validly published but occurs on collection C18-3346 in Foslie's herbarium. Adey & Lebednik 1967: 50 listed the collection for Drawer B1 under the invalid name

repandum, Lithothamnion (f. asperula). See listing above for *asperulum*, *Lithothamnion*

rosanoffii, Lithothamnion [originally described as *Lithothamnion rosanoffii* (Foslie 1908d: 5) but subsequently (Foslie 1909b: 55) transferred without change in rank into *Epilithon*].

Name on collection not updated from *Lithothamnion* to *Epilithon*, probably due to Foslie's death on 9.xi.1909]. **Holotype:** TRH, B1-1674 (see below).

[Anon.]; Australia; [Victoria], Port Phillip [Bay]; 'paa [= on] *Cystophora* sp. (*monilifera?*); [no date]; slide 1342 and two slides numbered 1641 [one broken] and one unnumbered slide; ex herb. Le Jolis [CHE]; [no pfa]; [Note: **Holotype** of *Lithothamnion rosanoffii* Foslie. Additional data — Wilks & Woelkerling 1991: 525, and Woelkerling 1993: 191. Material originally identified by Le Jolis as *Melobesia amplexifrons*. Box marked 'Teste Rosan'. Collection includes photo marked 'n. 6' and '*L. rosanoffii*'; **TRH B1-1674.**

rosea, Melobesia [originally described as *Hapalidium roseolum* (Kützing 1843: 385). Orthography of specific epithet then (Areschoug 1852: 509) mistakenly altered to *roseum* but species retained in *Hapalidium* with a reference to Kützing 1843, also with the altered spelling '*roseum*'. Rosanoff (1866: 77) then published the name *Melobesia rosea*, using Areschoug's orthography and citing '*Hapalidium roseum* Kützing' as the basionym. (Chamberlain 1983: 306-308 provided further information on these names and concluded that Rosanoff's specimens were not conspecific with the original specimens of Kützing.) Foslie (1898b: 11), citing Kützing as the authority, first recognized *Melobesia rosea* as a distinct species, then (Foslie 1900b: 16, 1900i: 15) treated '*Hapalidium roseum* Kützing' (listed as '*Melobesia rosea* (Kützing) Rosanoff' in Foslie 1900i) as a heterotypic synonym of *Lithothamnion corticiforme* (Kützing) Foslie, and finally (Foslie 1905c: 72) listed *Hapalidium roseolum* (using Kützing's original orthography) as a heterotypic synonym of *Lithothamnion membranaceum* (Esper) Foslie]. **Holotype:** L, 941.149-413 (Woelkerling & Verheij 1995: 75).

[Anon.]; [France]; Cherbourg; 'sur [= on] *Bornetia*'; 18.ii.1859; [no slides]; ex herb Le Jolis [CHE]; [no pfa]; [Note: habitat and collection date data on annotation slip in box. Collection not included in Adey & Lebednik 1967]; **TRH B1-1675.**

rugulosa, Melobesia [originally described as *Melobesia rugulosa* (Setchell & Foslie in Foslie 1902a: 10) but later (Foslie 1908d: 4) treated as a heterotypic synonym of *Lithothamnion marginatum* and the type filed by Foslie with other collections of *L. marginatum* in his herbarium]. **Holotype:** TRH, B1-1630 (see below).

Monks; Amerika [= America] [meaning United States]; California, Santa Monica; 'paa [= on] Stenogramme'; 1897; one unnumbered slide; comm. Setchell; [no pfa]; [Note: **Holotype** of *Melobesia rugulosa* Setchell & Foslie in Foslie. Additional data — Woelkerling 1993: 192. Box marked '*Melob. rugulosa* Setch. & Gibbs Fosl. = *M. tenuis* Setch. & Fosl. = *L. membr. f. marginatum*'. Habitat information taken from slide. Slide also marked '*Melob. rugulosa* Setch. & Gibbs mscr.'. Entry in Adey & Lebednik 1967: 49 reads 'Setchell, California, Santa Monica, 1897']; **TRH B1-1630.**

sejunctum, Lithothamnion [originally described as *Lithothamnion sejunctum* (Foslie 1906b: 3), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, B1-1676 (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Croix, Christianssteds havn [= the harbour of Christiansted]; [no habitat data]; 20.ii.1906; slides 1203 [missing], 1204, 1244; [no other collection data]; pfa: Printz 1929, pl. 2, fig. 7; [Note: **Holotype** of *Lithothamnion sejunctum* Foslie. Additional data — Woelkerling 1993: 199. Box marked 'Fotogr. [= photographed]' and 'nr. 13 fotogr. sp. konc. [= nr. 13 photographed sporangial conceptacles]']; **TRH B1-1676.**

Howe; Jamaica; Rackams Cay, near Kingston Harbor; on old bottle in 3 dm (decimetres) of water; 20.xii.1906; slides 1385-1386; Howe collection numbers 4593a, 4593b & 4395c;

[no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box also marked to indicate that specimens 4593b & 4593c are *Lithothamnion sejunctum* (?) while 4593a is *Goniolithon notarisii* (?). 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on two slips in box that also contain information on specimens 4593a and 4593c respectively]; **TRH B1-1677**.

tenuissimum*, *Lithothamnion [originally described as *Lithothamnion tenuissimum* (Foslie 1900a: 20), where Foslie retained it in publication]. **Holotype: TRH, B1-1678** (see below).

Möller, A.F.; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island], Bahia de Anna Chaves et [= and] Praia Lagarto; [no habitat data]; v.1885; slides 33, 1519; Floro de St. Thomé Afr. occ. number 23, ex herb. Univ. Coimbra **[COI]**; pfa: Printz 1929, pl. 1, figs 1-3; [Note: **Holotype** of *Lithothamnion tenuissimum* Foslie. Additional data — Woelkerling 1993: 222. Collection includes two photos marked '*L. tenuissimum*' and 'nr. 7' (not 23) and a smaller box marked 'St. Thome, no. 23' and 'Præp. [= slide] 1519' Annotation slip in larger box marked '*L. tenuissimum*' and 'Sp. konc. fotogr. [= sporangial conceptacles photographed]'. Slide 33 marked Henriques no. 23'. In protologue, Foslie (1900a: 21) lists the source of the collection as 'Herb. Univ. Coimbra, Prof. Henriques, no. 23']; **TRH B1-1678**.

Inadequately documented collections

The following six inadequately documented collections were found in Drawer B1 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on two stones now housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B1-3847**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on two stones now housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B1-3848**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on three stones now housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B1-3849**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on four stones now housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B1-3850**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on one stone now housed in a brown box. Collection also includes three fragments in a small unmarked round original box. Collection not included in Adey & Lebednik 1967]; **TRH B1-3851**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on two stones now housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B1-3852**.

Case B, Drawer 2

During the present study, two loose notes were found that could not be linked to any particular collection. These now have been placed in an envelope labelled 'Loose notes found in Drawer B2'. In addition, several unidentified photos were found. These have been grouped together in an envelope marked 'Loose photos found in Drawer B2 that cannot be matched with certainty to particular specimens'.

annulatum, *Lithothamnion* [originally described as *Lithothamnion annulatum* (Foslie 1906a: 18), where Foslie retained it]. **Holotype: TRH**, B2-1679 (see below).

Naumann; Kerguelen; Betsy Cove; [no habitat data]; 1874-1875; slides 1061-1063; Gazelle Exp. 1874-1875 [= German Transit of Venus Expedition 1874-1876]; pfa: Printz 1929, pl. 2, fig. 15; [Note: **Holotype** of *Lithothamnion annulatum* Foslie. Additional data — Woelkerling 1993: 28 and Woelkerling 1998c: 330. **TRH** box marked '*Lithoth. annulatum* (*L. polymorph.* Ask. partim [= in part])'. 'Ask.' refers to Askenasy 1888: 54 where specimen was identified as '*Lithothamnion polymorphum*'. Box also marked 'brudst. [= fragment]' and 'Sp. konc. foto nr. 28 [= sporangial conceptacles photograph number 28]' and 'x = ung [= young] *Lithoph. consociatum*'. Slide 1062 marked 'Tegn. [= drawing]'; **TRH B2-1679**.

bisporum, *Lithothamnion* [originally described as *Lithothamnion bisporum* (Foslie 1906a: 18), where Foslie retained it]. **Holotype: PC**, Sauvageau Herbarium (Woelkerling 1998c: 331).

Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; 'litoralreg. [= littoral region], paa [= on] *Lithophyllum polycephalum*'; xii.1904-ii.1905; slides 1058-1059; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 16; [Note: **Holotype fragments** of *Lithothamnion bisporum* Foslie. Additional data — Woelkerling 1993: 39 and Woelkerling 1998c: 331. Annotation slip in box marked 'Algues marines des Canaries' and '*Lithothamnion bisporum* Fosl. (n. sp. [= new species])'. Larger original box contains a small unmarked original box with fragments]; **TRH B2-1680**.

californicum, *Lithothamnion* [originally described as *Lithothamnion californicum* (Foslie 1900h: 3), where Foslie retained it]. **Lectotype: TRH**, B2-1681 (see below).

Setchell; [United States]; California, San Pedro, Point Fermin; on small stones in pools between tides; xii.1895; slides 199, 1531-1532, 1538; Setchell collection number 1148; pfa: Printz 1929, pl. 3, fig. 1; [Note: **Lectotype** of *Lithothamnion californicum* Foslie. Additional data — Woelkerling 1993: 46. Point Fermin is incorrectly overwritten as Point Fernino on box. Box marked 'nr. [= number] 23' and 'Sp. konc. fotogr. [= sporangial conceptacles photographed]'. Box also marked with Setchell collection numbers 1074 [= B15-2368], 1084 [not represented in **TRH**], 1147 [= A14 764], 1148 [present collection], 1149 [= B15-2379]; **TRH B2-1681**.

[Gardner]; Amerika [= America] [meaning United States]; Washington, Channel Rocks, near Seattle; [no habitat data]; 1901; slide 1536; Algae of Puget Sound, 'af nr. 654 [= from number 654]', comm. Setchell & Gardner; [no pfa]; [Note: box marked 's. med [= mixed with] *L. sonderi* f. *pacifica*'. Collector given in Setchell & Gardner 1903: 358. Foslie apparently separated this material from the main portion of collection 654 of the Algae of Puget Sound (B15-2372, filed under *Lithothamnion pacificum*); **TRH B2-1682**.

[Anon.]; [United States]; California, San Diego; on shells; iii.1885; slide 483; ex. herb. Farlow [FH], number IX, 1900; [no pfa]; [Note: box and slide marked '*L. californicum* forma?'. Slide also marked 'Farlow no. IX (1900)'. Annotation slip from Farlow with habitat data is also marked 'Can this be *L. magellanicum*' and 'IX']; **TRH B2-1683**.

californicum, *Lithothamnion* (f. *microspora*) [originally described as *Lithothamnion californicum* f. *microspora* (Foslie 1902a: 5), but not mentioned in Foslie's subsequent publications. Adey & Lebednik 1967: 52 list the collections under '*Lithothamnion microsporum*' but Foslie never accorded species rank to the taxon]. **Lectotype:** TRH, B2-1716 (see below).

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; 1901; slide 582; comm. F.S. Collins 1901; [no pfa]; [Note: grouped with B2-1716 under one entry in Adey & Lebednik 1967:52, who mistakenly list 'Collins' as the collector and '1901' as the collection date. Collection was on loan during catalogue preparation. Information on slide and any annotation slips present was not accessible]; **TRH B2-1715.**

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; 1901; slide 583; comm. F.S. Collins 1901; [no pfa]; [Note: **Lectotype** of *Lithothamnion californicum* f. *microspora*. Additional data — Woelkerling 1993: 149. Grouped with B2-1715 under one entry in Adey & Lebednik 1967:52, who mistakenly list 'Collins' as the collector and '1901' as the collection date. Collection was on loan during catalogue preparation. Entry prepared from information in Woelkerling 1993. Information on slide and any annotation slips present was not accessible]; **TRH B2-1716.**

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; [no date]; slide 1535; [comm.] Collins, number 12; [no pfa]; [Note: Adey & Lebednik 1967: 52 record 'leg. E. Snyder' in their entry but then mistakenly list 'Collins' as the collector. Collection was on loan during catalogue preparation. Entry prepared from information in Adey & Lebednik 1967. Information on slide and any annotation slips present was not accessible]; **TRH B2-1717.**

Snyder; [United States]; California, Pacific Beach near San Diego; [no habitat data]; [no date]; slide 1534; [comm.] Collins, number 5; [no pfa]; [Note: Adey & Lebednik 1967: 52 record 'leg. E. Snyder' in their entry but then mistakenly list 'Collins' as the collector. Collection was on loan during catalogue preparation. Entry prepared from information in Adey & Lebednik 1967. Information on slide and any annotation slips present was not accessible]; **TRH B2-1718.**

capense, *Lithothamnion* (f. *eckloniae*). See listing below for *eckloniae*, *Lithothamnion*

coulmanicum, *Lithothamnion* [originally described as *Lithothamnion coulmanicum* (Foslie 1905e: 16), where Foslie retained it in publication]. **Holotype:** TRH, B2-1684 (see below).

[Anon.]; [Antarctica]; Coulman øen [= Coulman Island], off Cape Wadsworth; collection depth: 18 fathoms; 17.i.1902 [but see Note]; slides 930-931 and three slides from G. Furnari marked 88/1, 88/2 and 88/4; Britisk antarkt. Exp. "*Discovery*" [= British National Antarctic Expedition (1901-1904)]; pfa: Printz 1929, pl. 2, figs 8-9; [Note: **Holotype** of *Lithothamnion coulmanicum* Foslie. Additional data — Woelkerling 1993: 64 and Woelkerling 1998c: 338 and Alongi et al. 2002: 143. Box marked 'Præp. 930 af største (return.) expl. [= slide 930 of largest (returned) specimen]' and 'Præp. 931 af kløvede sten, hvoraf stk. beholdt [= slide 931 of split stone, a piece of which is kept]'. Box also marked 'hvoraf lidet brudst. – præp. [= of which small fragment – slide]' and '(Fotogr. af 2 return. ekspl. [= photographs of two returned specimens])'. Collection date on box is 17.i.1902 but is 18.i.1902 on slides 930 & 931. Large original box includes fragments in one small original box marked '930' and a second empty original small box marked '931'. Annotation slip from G. Furnari dated 26.x.1998 marked 'This material should be referred to as the genus *Phymatolithon* Foslie'; **TRH B2-1684.**

eckloniae, *Lithothamnion* [originally described as *Lithothamnion capense* f. *eckloniae* (Foslie 1902b: 19) but subsequently (Foslie 1907b: 3) raised to the rank of species, namely *Lithothamnion eckloniae*]. **Holotype:** TRH, B2-1685 (see below).

Weber-van Bosse; [South Africa]; Kap d. g. haab [= Cape of Good Hope], Houtbaai; 'paa [= on] *Ecklonia*'; 1893; slides 701, 731, 1555; [no other collection data]; [no pfa]; [Note: **Holotype** of *Lithothamnion capense* f. *eckloniae* Foslie. Additional data — Woelkerling 1993: 81, Woelkerling & Verheij 1995: 51 and Keats & Chamberlain 1997: 57. Box marked '*Lithoth. capense* f. *eckloniae* Fosl.'. Original round box includes fragment in small packet marked '*L. eckloniae*' and 'Hab. sp. + cyst. foto [= habitat sporangial + cystocarpic photo]'. Slides 731 & 1555 marked 'Tegn. [= drawing]']; **TRH B2-1685**.

***elatocarpum*, *Goniolithon* (f. *australasica*)** [originally described as *Goniolithon elatocarpum* f. *australasica* (Foslie 1901a: 19). Foslie (1909b: 9) later suggested that this form should be omitted from the species without indicating its disposition in publication. Woelkerling 1996: 183 considered it to be a taxon of uncertain status within *Lithothamnion*. Collections of *G. elatocarpum* are housed in Drawer A14'. Collection listed under *Lithothamnion mirabile* in Adey & Lebednik 1967: 52 without mention of forma]. **Holotype**: **TRH**, B2-1686 (see below).

Gabriel; Australia; Victoria, Western Port [Bay]; collection depth: 3-5 fathoms; 1899; slide 524; [no other collection data]; [no pfa]; [Note: **Holotype** of *Goniolithon elatocarpum* f. *australasica* Foslie. Additional data — Woelkerling 1993: 33 and Woelkerling 1996: 183. Bottom of box marked '*G. elatocarpum* f. *australasica* *L. mirabile*' and 'cyst. konc.? [= cystocarpic conceptacles]'. Larger original round box contains fragment in a small round box marked '524']; **TRH B2-1686**.

foecundum*, *Lithothamnion [originally described as *Lithothamnion foecundum* (Kjellman 1883: 131), where Foslie retained it in publication]. **Holotype**: **UPS**, unnumbered (Düwel & Wegeberg 1996: 478).

Note: A photograph marked '15/4' and '*L. foec*' and 'cyst. konc.' was found in Drawer B2 during the present study, but the specimen depicted in the photo could not be matched to any specimen of *L. foecundum* in Drawer B2. It has been placed in Drawer B2 in an envelope marked 'Glass negative and photo labelled *L. foec*. that could not be linked to a collection of *Lithothamnion foecundum*'.

Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; [no habitat data]; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '10-12-15' and '*L. foecundum* (og [= and] *L. laeve*)'. Box also marked '2-delte sp. [= 2-parted sporangia]']; **TRH B2-1687**.

Hartz; [Greenland], Østgrønland [= East Greenland]; [Denmark Island], Hekla Havn; collection depth: 10-15 fathoms; 9.viii.1891; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B2-1688**.

Hartz; [Greenland], Østgrønland [= East Greenland]; [Denmark Island], Hekla Havn, mundingen [= the mouth]; collection depth: 9-11 fathoms; 26.vi.1891; [no slides]; collection number 27, [ex] Bot. Mus. Kbh. [**C**]; [no pfa]; [no notes]; **TRH B2-1689**.

[Hartz]; [Greenland], Østgrønland [= East Greenland]; Danmarks ø [= Denmark Island], vest f. Hekla Havn [= west of Hekla Havn]; collection depth: 'indtil [= up to] 17 fathoms'; 31.vii.1892; slide 189; collection numbers 36-37 'delvis [= in part]'; [no pfa]; [Note: original sliding-lid box contains two specimens in a small round box marked 'Præp. [= slide] 189'. Annotation slip in sliding-lid box marked 's. med *L. laeve*, desuden udtaget et par ekspl. som synes at være forkrøblet *L. glaciale* [= mixed with *L. laeve*, also taken out a couple of specimens which seem to be dwarfed *L. glaciale*']. Remaining parts of same collection are filed under *Lithothamnion laeve* (B4-1858) and *L. glaciale* (B9-2175). Name of collector taken from B9-2175 (also see Lund 1959: 10)]; **TRH B2-1702**.

- Johnson [N.]; Spitsbergen; mell. Norskøerne [now Norskøyene] og Amsterdamøen [now Amsterdamøya] [= between the Norwegian Islands and Amsterdam Island]; [no habitat data]; 1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. m. [= mixed with] *L. laeve* og ung [= and young] *L. glaciale* særsk. æske [= distinct box])' and 'sp. 2-delte [= sporangia 2-parted]']; **TRH B2-1690.**
- Jónsson; [Iceland]; N. Island [= north Iceland], Arnarnes; [no habitat data, but see Note]; 1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Paa [= on] pectin s. med [= mixed with] *L. laeve*)' and 'Sp. konc. foto nr. 30A [= sporangial conceptacles photograph number 30A]']; **TRH B2-1691.**
- Jónsson; Island [= Iceland]; Brinnes; 'paa konkyllie [= on conch (shell)]'; 11.vi.1898; [no slides]; collection number 71; [no pfa]; [no notes]; **TRH B2-1692.**
- Jónsson; Island [= Iceland]; Hólmanes; '(paa balan. overvokset *Spirorbis*. rør etc. [= on *Balanus* overgrown *Spirorbis*. tube etc.])'; 22.vii.1898; [no slides]; collection number 460; [no pfa]; [Note: box marked '*L. glac. delvis* [= in part]? (og [= and] *Ph. comp.*)']; **TRH B2-1693.**
- Lundbeck; Island [= Iceland]; Talknafjord; [no habitat data]; 9.vii.1893; [no slides]; collection number 46 'delvis [= in part]', [ex] Bot. Mus. Kbh. [C]; [no pfa]; [Note: other parts of Lundbeck collection 46 are filed under *Lithothamnion laeve* (B4-1837) and *L. tophiforme* (C12-3175). Adey & Lebednik 1967: 51 mistakenly list the collector as 'Jónsson']; **TRH B2-1694.**
- Kjellman; [Russia]; Kariske hav [= Kara Sea], Novaja Zemljas [= Novaya Zemlya], ostkust vid [= east coast at] Uddebay; [no habitat data]; viii.1875; slide 186; [no other collection data]; [no pfa]; [Note: larger original box contains two fragments in a smaller box marked 'Præp. [= slide] Anders. 186'. 'Anders.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH B2-1695.**
- [Rosenvinge]; Grønland [= Greenland]; Upernivik; [no habitat data]; 20.vii.1886; [no slides]; collection number 314 [in part], Bot. Mus. Kbh. [C]; [no pfa]; [Note: box marked '*L. tenue* Rosenv. ex parte = *L. foecundum* (ialf. delvis [= at least partly])'. The other part of collection 314 is filed under *Lithothamnion laeve* (B4-1847), where Rosenvinge is listed as the collector. Collection probably cited under *Lithothamnion tenue* by Rosenvinge 1893: 781]; **TRH B2-1696.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, "Frokostnet" i [= in] Havnfjorden [= Havnefjorden]; collection depth: ca 10 metres; 29.vii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2202 'delvis [= in part]'; [no pfa]; [Note: box marked 's. m. [= mixed with] *L. laeve*'. The other part of collection 2202 is filed under *Lithothamnion laeve* (B4-1850)]; **TRH B2-1697.**
- Simmons; [Canada]; [Northwest Territories], Ellesmereland, østre kyst [= eastern coast], Rice Strait; collection depth: ca 40 metres; 24.viii.1898; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 331; pfa: Printz 1929, pl. 2, fig. 13; [Note: box marked '*L. foecundum* (s. m. [= mixed with] *L. laeve* – *Cl. comp.*)'. Boxes with identical collection number and data are filed under *Lithothamnion laeve* (B4-1854) and *Clathromorphum compactum* (C20-3482)]; **TRH B2-1698.**
- Waghorne; [Canada]; Newfoundland, Coal River; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. foec.*?' and 'Newfoundl.'. Remaining collection data on annotation slip inside of box]; **TRH B2-1699.**
- [Anon.]; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], Hekla Havn; collection depth: 17-27 fathoms; 31.x.1891; [no slides]; collection number 11; [no pfa]; [Note: probably collected by Hartz but not indicated on box (see Lund 1959: 10). Box marked 'Cyst. konc. foto nr. 30B [= cystocarpic conceptacles photograph number 30B]']; **TRH B2-1700.**
- [Anon.]; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], Hekla Havn; collection depth: 10-17 fathoms; 27.x.1891; slide 187; collection numbers 9-

10; pfa: Printz 1929, pl. 2, fig. 14; [Note: probably collected by Hartz but not indicated on box (see Lund 1959: 10)]; **TRH B2-1701.**

[Anon.]; Grønland [= Greenland]; [no detailed locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'det. Kjellm.' and '(og delvis [= and in part] *L. laeve* i særsk. æske [= in distinct box])']. The box containing *L. laeve* almost certainly is in Drawer B4 (B4-1857)]; **TRH B2-1703.**

[Anon.]; [Norway]; Tromsø, Berg; [no habitat data]; 14.vi.1889; slide 312; [no other collection data]; pfa: Printz 1929, pl. 2, fig. 12; [Note: box marked 'Afb. Contri. II' and '*L. laeve* og [= and] *L. foecundum*'. 'Afb. Contri. II' refers to Foslie 1891a. Larger original box includes fragments in a small original box marked '312'. Slide marked '*Lithothamnion laeve foecundum*']; **TRH B2-1704.**

magellanicum, Lithothamnion [originally described as *Lithothamnion magellanicum* (Foslie 1895b: 8), where Foslie retained it in publication]. **Holotype:** divided between **PC**, General Herbarium, and **TRH** (B2-1705) (Woelkerling 1998c: 353).

[Harriot]; [Chile]; Magellansstrædet [= Strait of Magellan] [but see Note]; [no habitat data]; [1883]; slides 198, 416 and one unnumbered slide; Harriot collection number 6; pfa: Foslie 1895b: pl. 1 [unnumbered], fig 8, and Foslie 1907c: pl. 1, fig. 2, and Printz 1929, pl. 2, fig. 1; [Note: **Part of holotype** of *Lithothamnion magellanicum* Foslie. Additional data — Woelkerling 1993: 142 and Keats & Chamberlain 1997: 62, 67 and Woelkerling 1998c: 353. Data on collector, and date of collection not on box but taken from Woelkerling 1998. Locality on portion of holotype in **PC** given as 'T. de Feu [= Tierra del Fuego]' but on **TRH** box and slides given as 'Magellan str.' or 'Magellansstrædet'. **TRH** box also marked 'Sp. konc. foto. nr. 20B [= sporangial conceptacles photograph number 20B]'. Collection includes photo marked '15/4' and '*L. magellanicum*' and 'Sp. (typen)'. Adey & Lebednik 1967: 52 list a slide numbered '2113' (not found) but not the other slides]; **TRH B2-1705.**

Skottsberg; Falklandsøerne [= Falkland Islands]; [Berkeley Sound], Port Louis; 'på skæret i subregionen [= on the reef in sublittoral region]'; 23.vii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, station 36; pfa: Foslie 1907c, pl. 1, fig. 3, and Printz 1929, pl. 2, fig. 5; [no notes]; **TRH B2-1707.**

Skottsberg; Falklandsøerne [= Falkland Islands]; Berkeley Sound, Port Louis; collection depth: 7 metres, 'sten – mudder [= stone – mud]'; 28.vii.1902; slide 944; Swedish South Polar Expedition 1901-1903, station 41; pfa: Printz 1929, pl. 2, fig. 2; [Note: box marked 'Sp. konc. fotogr. [= sporangial conceptacles photographed]'. Annotation slip in box marked '*Lithoth. magellanicum* f. paa ekspl. af *L. rugosum* og *L. discoideum* – blandt sidstn. [= *Lithoth. magellanicum* f. on specimen of *L. rugosum* and *L. discoideum* – among the last-named]' and 'pl. II, fig. 2 returneret [= returned]'. Original box includes small packed marked 'nr. 21C' and '*L. magell.*' and 'Falklandsøerne [= Falkland Islands]' and 'st. 41' and 'Sp. konc. foto [= sporangial conceptacles photographed]']; **TRH B2-1706.**

Skottsberg; Falklandsøerne [= Falkland Islands]; Berkeley Sound, Port Louis; collection depth: 'ngl. meters dybde [= few metres depth]'; 3.viii.1902; slide 943; Swedish South Polar Expedition 1901-1903, station 39; pfa: Printz 1929, pl. 2, fig. 4; [Note: box marked 'fig. 4 delvis [= in part]']; **TRH B2-1708.**

Skottsberg; Falklandsøerne [= Falkland Islands]; Hookers Point; [no habitat data]; 18.viii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, station 48; [no pfa]; [Note: small packet in box marked 'nr. 21D' and '*L. magellan.*' and 'Falklandsøerne [= Falkland Islands]' and 'st. 48' and 'Sp. konc. foto [= sporangial conceptacles photographed]'. Collection includes two photographs]; **TRH B2-1709.**

Skottsberg; [Argentina]; Observatorie øen [= Observatory Island]; collection depth: 25 metres; 6.i.1902; slide 1190; Swedish South Polar Expedition 1901-1903, station 1; [no pfa]; [Note: large round box marked '*L. magellanicum* f. (og [= and] 3 *L. rugosum*) *granuliferum?*'. The material of *L. granuliferum* is in Drawer C-18 (C18-3336). Collection in-

cluded a smaller original box with same collection data and also marked '*L. magellanicum* (eg [= and] 3 *L. rugosum*)' and 'Sp. & cyst. [= sporangial and cystocarpic]' and 'Cyst. fotogr. [= cystocarps photographed]'. Smaller box listed as a separate collection in Adey & Lebednik 1967: 51; **TRH B2-1710**.

Skottsberg; [South Georgia and the South Sandwich Islands]; Sydgeorgien [= South Georgia], Cumberland Bay, May Harbour; [no habitat data]; 8.v.1902 [but see Note]; slide 949; Swedish South Polar Expedition 1901-1903, station 15; [no pfa]; [Note: box marked '*L. magellanicum* forma = *crenulatum*?' and '(delvis paa [= partly on] *L. discoideum*)'. Slide mistakenly (?) dated '5.v.1902']; **TRH B2-1711**.

Skottsberg; Fuegia [= Tierra del Fuego Island], [country uncertain]; Beagle kanalen [= Beagle Channel]; 'littoral, paa mollusk [= on mollusc] (*Mytilus*)'; 15.iii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, station 10a; pfa: Printz 1929, pl. 2, fig. 3; [Note: it is uncertain whether the collection was made in the Chilean or Argentinian sector of the Beagle Channel]; **TRH B2-1712**.

Thaxter; Chile; Punta Arenas, Magellanstr. [= Strait of Magellan]; [no habitat data]; 1905-1906; slide 1493; comm. Farlow [FH], 1907, collection number 13; [no pfa]; [Note: annotation slip from Thaxter with collection data is also marked 'South American Cryptogams'. Larger original box contains small original box marked 'Farl. 13' and 'Præp. [= slide] 1493']; **TRH B2-1713**.

Thaxter; Chile; Punta Arenas, Magellanstr. [= Strait of Magellan]; on shells; 1905-1906; slides 1494-1495; comm. Farlow [FH], 1907, collection number 14; [no pfa]; [Note: annotation slip from Thaxter with collection and habitat data is also marked 'South American Cryptogams']; **TRH B2-1714**.

magellanicum*, *Lithothamnion* (f. *tatalensis*)**. See listing below for ***taltalense*, *Lithothamnion

microsporum, *Lithothamnion*. See listing above for ***californicum*, *Lithothamnion* (f. *microspora*)**

mirabile*, *Lithothamnion [originally described as *Archaeolithothamnion mirabile* (Foslie 1899c: 3) but subsequently (Foslie 1909b: 4) transferred without change in rank into *Lithothamnion*]. **Holotype: TRH, B2-1721** (see below).

Gabriel; Australia; [Victoria], Rundt Philip Isl. i Corner Inlet, øst for Phillip Bay [= around Phillip Isl. in Corner Inlet, east of Phillip Bay]; collection depth: 7-9 fathoms; i.-ii.1897; slides 63-64, 515 and four unnumbered slides; [no other collection data]; [no pfa]; [Note: **Holotype** of *Archaeolithothamnion mirabile* Foslie. Additional data — Woelkerling 1993: 151, Woelkerling & Verheij 1995: 65, Townsend et al. 1995: 94, and Wilks & Woelkerling 1995: 557, 564. Collection locality is taken as Corner inlet, although Phillip Island is in Westernport Bay and not in Corner Inlet. Slides 63 & 64 marked '*Lith. Archaeolithothamnion mirabile*' while other slides and box marked '*L. mirabile*'. Large original box includes five smaller boxes, three of which are respectively marked 'Præp. [= slide] Andersss. 63' or 'Præp. [= slide] Andersss. 64' or 'Præp. [= slide] 515'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Adey & Lebednik 1967: 52 indicate that two boxes occur but only one flagged by them as type is present. See, however (B2-1722), which is listed separately in Adey & Lebednik 1967: 52]; **TRH B2-1721**.

Gabriel; [Australia]; Victoria, Phillip Island, Ocean Beach; [no habitat data]; 1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B2-1719**.

Gabriel; Australia; [Victoria], Port Phillip Bay, Richards Point; littoral [zone]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. engelhartii?* *mirabile* (?)']; **TRH B2-1720**.

Gabriel; Australia; Victoria, Western Port [Bay]; collection depth: 3-5 fathoms; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. fotogr.? [= spo-

rangial conceptacles photographed?]. Annotation slip in box marked 'Tømte konc. [= empty conceptacles]'. Small packet inside original box contains fragment and is marked with collection data and with '19B'. Collection not included in Adey & Lebednik 1967]; **TRH B2-1725.**

Gabriel; [Australia]; Victoria, Western Port Bay; collection depth: 7-9 fathoms; xi.-xii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: large original box marked 'Afk. præp. + fotogr. [= decalcified slide + photography]' and 'smaa sp. konc. lille æske [= small sporangial conceptacles small box]'. Large box contains a small original box marked 'Afk. præp. og fotogr. konc. [= decalcified slide and photographed conceptacles]'. Large box also contains packet marked 'nr. 19A' and '*Lith. mirabile*' and 'Western Port Bay' and '1903' and 'Subprom. konc. af sp. foto [= subprominent sporangial conceptacles photographed]'. Grouped with B2-1724 under one entry in Adey & Lebednik 1967: 52. Also see B2-1722]; **TRH B2-1723.**

Gabriel; Australia; Victoria, Western Port Bay; collection depth: 6-9 fathoms; 1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. engelhartii? mirabile (?)*'. Grouped with B2-1723 under one entry in Adey & Lebednik 1967: 52]; **TRH B2-1724.**

Gabriel; [Australia]; Victoria, [no detailed locality data]; [no habitat data]; [date information provided in Note]; [no slides, but see Note]; [no other collection data]; pfa: Printz 1929, pl. 1, figs 21-26; [Note: collection consists of stones taken by Foslie from B2-1721 and B2-1723 for photographing and then placed together in a box. Box label reads 'Lithoth. Monogr. pl. 1, fig. 21, Western Port Bay, 7-9 fathoms, 11.-12.1903' followed by '— fig. 22-26, Philip Isl. [= Phillip Island], Corner Inlet, 7-9 fathoms, 1.-2.1897' and '(af æske præp. 63-64 [= of box slides 63-64])'. Entry in Adey & Lebednik reads 'Gabriel, Australia, Victoria, Philip Island, Corner Inlet, LM1 (21-26)']; **TRH B2-1722.**

siamense*, *Lithothamnion [originally described as *Lithothamnion siamense* (Foslie 1901b: 19), where Foslie retained it in publication. In the protologue, Foslie (1901b: 19, 20) described f. *minuta* and f. *simulans* without indicating which represented the type-form of the species. Subsequently (Foslie 1904b: 10), f. *minuta* was equated with the type form, thus rendering the epithet *minuta* a superfluous substitute for f. *siamense*. See Verheij & Woelkerling 1992: 285 for further data. Foslie (1904b:16) also raised *Lithothamnion siamense* f. *simulans* to species rank as *Lithothamnion simulans*. Collections of *L. simulans* are in Drawer B18]. **Lectotype: TRH, B2-1729** (see below).

Jousseume; [Djibouti]; Røde hav [= Red Sea], Aden-bugten [= Gulf of Aden], Djibuti & Obock; [no habitat data]; 1897; slide 292; Jousseume collection number 8, ex. herb. Bornet [**PC**]; pfa: Printz 1929, pl. 1, fig. 19; [Note: box marked '*Lithoth. siamense* (og anden art [= and another species])'. Djubuti & Obock are on the Gulf of Tadjoura which is part of the Gulf of Aden. Adey & Lebednik 1967: 52 omit mention of the collector]; **TRH B2-1726.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], 15 kvm Ø for [= 15 nautical miles east of] Koh Chuen; collection depth: 10 fathoms, 'skalbund [= attached to shells]'; [no date]; [no slides, but see Note]; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 17; [Note: collected during Danish Expedition to Siam (1899-1900) but not so marked on box. Box lid incorrectly marked 'Præp. [= slide] 470'. Data on slide 470 matches that of the lectotype (B2-1729) and slide has been placed with that collection. Box lid also incorrectly marked 'Ill delvis [= in part]' and 'Sp. konc. foto nr. 18 [= sporangial conceptacles photograph number 18]']; **TRH B2-1727.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], 11 kvartmil. N.V. af [= 11 nautical miles NW of] Koh Kam; collection depth: 15 fathoms [but see Note]; 6.ii.1900; slides 468-469 [but see Note]; Schmidt collection number 1; [no pfa]; [Note: box lid incorrectly marked 'Præp. [= slide] 471'. Data on slide 471 matches that of the lectotype (B2-1729) and slide has been placed with that collection. Slides 468-469 were found in B2-1729 but have data matching that for B2-1728 and thus have been transferred to

B2-1728. Annotation slip in box marked 'Den danske Siamexp. 1899-1900 [= Danish Expedition to Siam 1899-1900]' and '*Lith. siamense* f. *minuta*' and 'Siambugten' and '11 kvartmil N.V. af [= 11 nautical miles NW of] Koh Kam' and '10 fathoms' and 'no. I' and 'Præp. [= slide] 471' and '6.ii.1900' and 'leg. J. Schmidt'. It is presumed that the collection depth on the annotation slip should read '15 fathoms' rather than '10' and that 'Præp. [= slide] 471' should read 'Præp. [= slides] 468-469'. Slides 468 & 469 both marked with Schmidt collection number 1]; **TRH B2-1728.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], mell. [= between] Koh Mesan og [= and] Koh Chuen [Islands]; collection depth: 10-15 fathoms, 'stenbund [= stone bottom]'; 6.ii.1900; slides 470-471 [but see Note]; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithothamnion siamense* f. *siamense*. Additional data — Verheij & Woelkerling 1992: 285, and Woelkerling 1993: 200. Box cover mistakenly cites slides 468 & 469 — see Verheij & Woelkerling 1992: 285 for details. Slides 468-469 belong to B2-1728. Box also marked '1899-1900' and 'IV delvis [= in part]' and '4-delte sp. [= 4-parted sporangia]'. Annotation slip in box marked 'Den danske Siamexp. 1899-1900 [= Danish Expedition to Siam 1899-1900]' and '*L. siamense* f. *minuta*' and 'Siambugten, mell. [= between] Koh Mesan og [= and] Koh Chuen' and '10-15 fathoms' and 'no. IV delvis [= in part]' and 'stenbund [= stone bottom]'. The epithet 'f. *minuta*' is superfluous for 'f. *siamense*', the type form of the species (see Verheij & Woelkerling 1992: 285). Slide 470 marked '*Lithothamnion siamense* Fosl. f. *minuta*' and 'Siambugten, mell. [= between] Koh Mesan og [= and] Koh Chuen' and '15 fathoms' and '6.ii.1900' and 'no. IV'. Slide 471 marked '*Lithothamnion siamense* Fosl. f. *minuta*' and 'Siboga exp. LXI, text, fig. 3. [= Foslie 1904b: text fig. 3]' and 'Siambugten mellem [= between] Koh Mesan og [= and] Koh Chuen' and '15 fathoms' and '6.ii.1900' and 'no. IV'. Lectotype element includes one fragment in a packet marked 'Ekspl. = præp. 470 [= specimen = slide 470]' marked 'nr. 18' and '*L. siamense*' and 'sp. konc. foto. [= sporangial conceptacles photographed]' and 'Siam', and an annotation slip marked '*L. siamense* f. *minuta*?' and 'III delvis [= in part] (78)' and 'Præp. 470 af mindste [= slide 470 of smallest]'. Both the packet and the annotation slip were transferred from B2-1727 to B2-1729 during the present study]; **TRH B2-1729.**

[Weber-van Bosse]; [Indonesia]; Kei Islands, Tual [anchorage]; [no habitat data]; 12.-16.xii.1899; [no slides]; Siboga Expedition, station 258, collection 1263 'delvis [= in part]'; pfa: Printz 1929, pl. 1, fig. 20; [Note: grouped with isolectotype collection of *L. siamense* f. *pseudoramosa* (B2-1734) under one entry in Adey & Lebednik 1967: 52. B2-1734 is the other part of Siboga Expedition collection 1263]; **TRH B2-1730.**

[Weber-van Bosse]; [Indonesia]; Sapeh Strait; [no habitat data]; 14.iv.1899; [no slides]; Siboga Expedition, station 49a, collection 884; pfa: Foslie 1904b, pl. 1, fig. 1; [Note: box marked '*L. siamense* f. *typica*' and 'Brudstk af ekspl. [= fragment of specimen] pl. 1, fig 1']; **TRH B2-1732.**

[Weber-van Bosse]; [Indonesia]; Sapeh Strait; [no habitat data]; 14.iv.1899; [no slides]; Siboga Expedition, station 49a, specimens 886 and 887; [no pfa]; [Note: the two specimens are in one box and are numbered 886 & 887]; **TRH B2-1733.**

[Weber-van Bosse]; [Indonesia]; Tanah Djampeah, Kambaragi Bay; [no habitat data]; 4.-5.v.1899 [incorrectly listed on box as 1889]; [no slides]; Siboga Expedition, station 64, collection 1087; pfa: Printz 1929, pl. 1, fig. 18; [Note: incorrectly chosen as lectotype of *Lithothamnion siamense* f. *siamense* in Adey & Lebednik 1967: 52. Additional data — Verheij & Woelkerling 1992: 285]; **TRH B2-1731.**

***siamense*, *Lithothamnion* (f. *pseudoramosa*)** [originally described as *Lithothamnion siamense* f. *pseudoramosa* (Foslie 1904b: 10), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 52 under species without mention of forma]. **Lectotype:** L, 943.7-15 (Verheij & Woelkerling 1992: 282).

[Weber-van Bosse]; [Indonesia]; Kei Islands, Tual [anchorage]; [no habitat data]; 12.-16.xii.1899; one slide labelled with Siboga Expedition collection number 1263; Siboga Expedition, station 258, collection 1263 'delvis [= in part]'; [no pfa]; [Note: **Isolectotype** of *Lithothamnion siamense* f. *pseudoramosa* Foslie. Additional data — Verheij & Woelkerling 1992: 282 and Woelkerling 1993:181. Larger original marked 'Siboga Exp. 1263 delvis [= in part]' and 'Stat. 258'. Grouped with a collection of *L. siamense* (f. *siamense*) (B2-1730) under one entry in Adey & Lebednik 1967: 52. B2-1730 is the other part of Siboga Expedition collection 1263. Larger original box contains two small boxes (one with a specimen and one with one fragment) with identical collection data]; **TRH B2-1734**.

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pulu Tongkil; [no habitat data]; 5.-6.vii.1899; [no slides]; Siboga Expedition, station 109, collection 841; [no pfa]; [no notes]; **TRH B2-1735**.

taltalense, *Lithothamnion* [originally described as *Lithothamnion magellanicum* f. *tatalensis* (Foslie 1905e: 17) but subsequently (Foslie 1906b: 4) raised to the rank of species, namely *Lithothamnion taltalense*]. **Holotype**: **TRH**, B2-1736 (see below).

Note: A photograph marked 'n. 22' and '*L. taltalense*' was found in Drawer B2 during the present study, but the specimen depicted in the photo does not match material in B2-1736 or the specimen depicted in Printz 1929, pl. 2, fig. 6. It has been placed in Drawer B2 in an envelope marked 'Photo labelled *L. taltalense* of a specimen apparently not present in Foslie's herbarium'.

Paessler; Chile; Taltal, syd for [= south of] Antofogaste; [no habitat data]; 1904; slides 893-895; [comm.] Reinbold, [ex] Bot. Mus. Hamburg [**HBG**]; pfa: Printz 1929, pl. 2, fig. 6; [Note: **Holotype** of *Lithothamnion magellanicum* f. *taltalensis* Foslie. Additional data — Woelkerling 1993: 219. Box marked 'brudstk. [= fragment]' after 'pl. 2, fig. 6'. Annotation slip in box marked 'Taltal i Nord Chile (syd for Antofogaste) [= Taltal in north Chile (south of Antofogaste)]' and 'ca. 2642°S.B.'. Packet inside the box with fragment is marked 'Nr. 20' and 'Sp. konc. foto [= sporangial conceptacles photographed]'. Listed at species level in Adey & Lebednik 1967: 52, who mistakenly list 'Reinbold' as the collector and mention 'Paessler (as Taesler)' after the data on **HBG**]; **TRH B2-1736**.

tenue, *Lithophyllum* Kjellman [originally described as *Lithophyllum tenue* (Kjellman 1889: 22). Subsequently (Foslie 1895a: 174, 177) transferred without change in rank into *Lithothamnion* creating the name *Lithothamnion tenue* (Kjellman) Foslie, a later (and thus illegitimate) homonym for *Lithothamnion tenue* Rosenvinge (1893: 778) (see listing for *Lithothamnion tenue* Rosenvinge below and also see Düwel & Wegeberg 1996: 471-472). Kjellman taxon then (Foslie 1900i: 15) reduced to the rank of form and treated as *Lithothamnion laeve* f. *tenuis* but later (Foslie 1905c: 17, text) re-elevated to species rank within *Lithothamnion*. Collection not listed separately from *Lithothamnion tenue* Rosenvinge in Adey & Lebednik 1967: 52]. **Lectotype**: **TRH**, B2-1737 (see below).

Kjellman; [United States]; Arkt. Amerika [= Arctic America], [Alaska], Port Clarence; [no habitat data]; 1879; slide 311, and slides 1 and 2 prepared by Lebednik; Vega-Expedition; pfa: Printz 1929, pl. 3, fig 2; [Note: **Lectotype** of *Lithophyllum tenue* Kjellman. Additional data — Woelkerling 1993: 221. Collection includes slip from P.A. Lebednik dated February 1976 and identifying the material as *Mesophyllum tenue* (Kjellman) Lebednik. Collection was on loan during catalogue preparation. Entry prepared from information in Woelkerling 1993. Information on slides and any annotation slips present was not accessible]; **TRH B2-1737**.

tenue, *Lithothamnion* Rosenvinge [originally described as *Lithothamnion tenue* (Rosenvinge 1893: 778). Subsequently (Foslie 1895a: 173) needlessly renamed *Lithothamnion*

stroemfeltii (see Düwel & Wegeberg 1996: 471-472). Later, Foslie (1905c: 17) incorrectly (see Woelkerling, Furnari & Comarci 2002: 616) treated both *Lithothamnion tenue* Rosenvinge and *L. stroemfeltii* as heterotypic synonyms of *Lithothamnion laeve*. Collections not listed separately from *Lithophyllum tenue* Kjellman in Adey & Lebednik 1967: 52. Isolectotype collections of *Lithothamnion tenue* Rosenvinge are in Drawer B4]. **Lectotype: C**, Hartz, no. 879 (Düwel & Wegeberg 1996: 478).

Hartz; Grønland [= Greenland]; Holstensborg; [no habitat data]; 1889; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 7; [Note: box marked '*Lithothamnion tenue* Rosenvinge = *L. laeve*' and '2 delte sp. [= 2-parted sporangia]'. Printed annotation slip in box marked 'Plantae groenlandicae, a Museo botanico Hauniensi distributae [= Greenland Plants distributed from the Botanical Museum Copenhagen]' [**C**]. Adey & Lebednik 1967: 52 mistakenly list collector as 'Hark']; **TRH B2-1738**.

Saunders; [United States]; Alaska Peninsula, Kukak Bay; [no habitat data]; 4.vii.1899; slide 452; Harriman Alaska Expedition, De Alton Saunders collection no. 425, [ex] **NY**.; [no pfa]; [Note: box marked '*Lithoth. laeve tenue* (og [= and] *comp.*)' and 'nr. 24B.C, sp. + cyst. foto. [= sporangial + cystocarpic photographed]'. Collection includes two photos in an envelope. Saunders 1901: 442 identifies collection 425 as *Clathromorphum circumscriptum*. Original box includes one fragment in a packet marked 'nr. 24 B.C, sp. + cyst. [= sporangial + cystocarpic]']; **TRH B2-1739**.

Saunders; [United States]; Alaska Peninsula, Kukak Bay; [no habitat data]; 4.vii.1899; slide 450; Harriman Alaska Expedition, De Alton Saunders collection number 425^{1/2}; [no pfa]; [Note: box marked '*L. laeve* f. *tenue* f.?']. Saunders 1901: 442 identifies material as *Lithothamnion laeve* and lists number as '425a'; **TRH B2-1740**.

vescum, *Lithothamnion* [originally described as *Lithothamnion vescum* (Foslie 1907b: 3), but not mentioned in Foslie's subsequent publications]. **Lectotype: TRH**, B2-1741 (see below).

Yendo; Japan; Pacific coast of middle Japan, Marine Laboratory at Sagami Province; on rhizoids of *Ecklonia*; 1899; slide 1539; Yendo collection number 228; [no pfa]; [Note: **Lectotype** of *Lithothamnion vescum* Foslie. Additional data — Woelkerling 1993: 236. Box marked '*Lithoth. engelhartii vescum* (delvis [= in part])' and 'nr. 17 hab. & sp. konc. foto. [= nr. 17 habitat & sporangial conceptacles photographed]'. Larger original box includes one fragment in a small original box marked '*Lithoth. vescum*' and 'hab. & sp. konc. fotogr. [= habitat & sporangial conceptacles photographed]']; **TRH B2-1741**.

Case B, Drawer 3

flavescens, *Lithothamnion* [originally described as *Lithothamnion flavescens* (Kjellman 1883: 129), where Foslie retained it in publication]. **Type:** not designated (Woelkerling 1993: 95). **TRH** has one syntype (B3-1772).

Foslie; [Norway]; Altenfjord [now Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 15 fathoms, 'paa [= on] *L. glac.* f.? [= *Lithothamnion glaciale*] [see B10-2263]; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. cyst. + anth. konc. [= sporangial cystocarpic + antheridial conceptacles]' and 'Sp. 4-delte [= sporangia 4-parted]']; **TRH B3-1742**.

Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: 15-20 fathoms, 'paa [= on] *L. varoense glac.* - *L. toph. var.* & *Phym. invest.*'; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. flavescens* (delvis [=

in part])' and 'Sp. 4-delte [= sporangia 4-parted]'. Annotation slip in box marked 'Korsnes i [= in] Talvig [now Talvik]' and '10.viii.1897' and '15-20 fathoms'. One of five collections dated '10.viii.1897' and listed in Adey & Lebednik 1967: 53 either under the single entry 'Storkorsnes in Altenfjord' or under the single entry 'Tromsø, Altafjord, Korsnes'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes'; **TRH B3-1743.**

[Foslie]; [Norway]; Finmarken, Alten, Korsnes [now Finnmark, Alta, Storekorsnes]; collection depth: 15-20 fathoms, 'paa [= on] *L. glaciale*'; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. (& anth.?) konc. [= sporangial (& antheridial?) conceptacles]'. One of five collections dated '10.viii.1897' and listed in Adey & Lebednik 1967: 53 either under the single entry 'Storkorsnes in Altenfjord' or under the single entry 'Tromsø, Altafjord, Korsnes'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes']; **TRH B3-1746.**

[Foslie]; [Norway]; Finmarken, Altenfjord, Korsnes [now Finnmark, Altafjorden, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. flavescens* (& *L. glaciale*)' and 'Cyst. konc. [= cystocarpic conceptacles]'. Annotation slip in box marked 'Enporede konc. [= uniporate conceptacles]'. One of five collections dated '10.viii.1897' and listed in Adey & Lebednik 1967: 53 either under the single entry 'Storkorsnes in Altenfjord' or under the single entry 'Tromsø, Altafjord, Korsnes'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes']; **TRH B3-1747.**

[Foslie]; [Norway]; Alten, Korsnes [now Alta, Storekorsnes]; collection depth: ca 15 fathoms, 'paa [= on] *L. tophif.* [= *Lithothamnion tophiforme*]; 18.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'firdelte sp. [= 4-parted sporangia]' and 'ekspl. x [= specimen x]'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes']; **TRH B3-1749.**

Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: 15-20 fathoms, 'paa [= on] *L. glac.* [= *Lithothamnion glaciale*]; 10.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 12; [Note: one of five collections dated '10.viii.1897' and listed in Adey & Lebednik 1967: 53 either under the single entry 'Storkorsnes in Altenfjord' or under the single entry 'Tromsø, Altafjord, Korsnes'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes']; **TRH B3-1744.**

Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: ca 15 fathoms. 'paa [= on] *L. toph.* [= *Lithothamnion tophiforme*]; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. ej unders. [= sporangia not examined]'. One of five collections dated '10.viii.1897' and listed in Adey & Lebednik 1967: 53 either under the single entry 'Storkorsnes in Altenfjord' or under the single entry 'Tromsø, Altafjord, Korsnes'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes']; **TRH B3-1745.**

Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: ca 15 fathoms; 18.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of an original box and a packet housed in a newer brown box. Original box marked 'Sp. 4-delte [= sporangia 4-parted]'. Packet contains one specimen and is marked 'nr. 27' and 'Sp. konc. foto [= sporangial conceptacles photographed]'. Foslie used either 'Storkorsnes' or 'Korsnes' for the locality now called 'Storekorsnes']; **TRH B3-1748.**

Foslie; [Norway]; Alten, Bækkarfjord [now Alta, Bekkarfjord]; collection depth: 4-10 fathoms, 'paa [= on] *L. glac. - tophif. var.*'; 2.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ekspl. x 4-delte sp. [= specimen x 4-parted sporangia]']; **TRH B3-1758.**

Foslie; [Norway]; Finmarken [now Finnmark], Galten; collection depth: ca 10 fathoms; 6.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. flavescens* (ell. [= or] *laeve*?)']; **TRH B3-1750.**

- [Foslie]; [Norway]; Finmarken [now Finnmark], Hasvik; 'paa [= on] *L. glac.* [= *Lithothamnion glaciale*']; winter 1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B3-1751.**
- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms, 'paa [= on] *L. tophiforme*'; 2.viii.1882; slide 185; [no other collection data]; [no pfa]; [Note: large original box marked 'sp. 4-delte [= sporangia 4-parted]'. Large original box contains two small original boxes, one marked 'Præp. [= slide] Andersss. 185' and the other marked '4-delte sp. [= 4-parted sporangia]'. Each small box contains one fragment. 'Andersss.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH B3-1752.**
- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms, 'paa [= on] *L. soriferum*'; 2.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: see C13-3188 for relevant collection of *Lithothamnion soriferum*]; **TRH B3-1753.**
- [Foslie]; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-12-15 fathoms, 'paa [= on] *L. tophiforme soriferum*'; 28.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 10; [Note: box marked '4-delte sp. [= 4-parted sporangia]']; **TRH B3-1765.**
- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-12-15 fathoms, 'paa [= on] *L. ung. & glac.?* [= *Lithothamnion ungeri* & *L. glaciale*']; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4-delte [= sporangia 4-parted]'. Host information on annotation slip in box]; **TRH B3-1754.**
- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; 'paa [= on] *L. glaciale*'; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. flavescens* (*laeve?*)'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B3-1755.**
- Foslie; [Norway]; Kirkenes i [= in] Sydvaranger [now Sør-Varanger]; collection depth: 10 fathoms; 8.vii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4-delte sp. [= 4-parted sporangia]'. Listed in Adey & Lebednik 1967: 54 under *Lithothamnion laeve* in Drawer B4]; **TRH B3-1764.**
- [Foslie]; [Norway]; Lofoten, Balstad [now Ballstad]; collection depth: ca 15 fathoms; ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. flavescens* (ialf. delvis [= at least partly])']; **TRH B3-1757.**
- Foslie; [Norway]; Porsangerfjord [now Porsangerfjorden], Kistrand; collection depth: 4-6 fathoms, 'paa [= on] *L. sorif. f. glob. (L. glac.?)*'; 13.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4-delte [= sporangia 4-parted]']; **TRH B3-1759.**
- Foslie; [Norway]; Porsangerfjord, Tamsø [now Porsangerfjorden, Tamsøya]; collection depth: 10-12-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'mindste ekspl. sp. 4-delte [= smallest specimen sporangia 4-parted]']; **TRH B3-1760.**
- Foslie; [Norway]; Skarsvaag [now Skarsvåg] ved [= near] Nordkap [now Nordkapp]; collection depth: ca 5 fathoms; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ekspl. x sp. 4-delte [= specimen x sporangia 4-parted]'. Grouped with B3-1762 and B3-1763 under one entry in Adey & Lebednik 1967: 53]; **TRH B3-1761.**
- Foslie; [Norway]; Skarsvaag [now Skarsvåg] ved [= near] Nordkap [now Nordkapp]; collection depth: 6-8 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4-delte [= sporangia 4-parted]'. Grouped with B3-1761 and B3-1763 under one entry in Adey & Lebednik 1967: 53]; **TRH B3-1762.**
- Foslie; [Norway]; nedenfor [= below] Lille Skarsvaag [now Lille Skarsvåg] ved [= near] Nordkap [now Nordkapp]; collection depth: ca 15 fathoms, 'paa [= on] *L. glac.*'; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4-delte ekspl. x [= sporangia 4-parted specimen x]'. Grouped with B3-1761 and B2-1762 under one entry in Adey & Lebednik 1967: 53]; **TRH B3-1763.**
- Foslie; [Norway]; Sydvaranger, Kjelmø [now Sør-Varanger, Kjelmøya], havnen [= harbour]; collection depth: 4-6 fathoms, 'paa [= on] *L. glaciale*'; 3.viii.1897; [no slides]; [no other col-

- lection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH B3-1756.**
- Foslie; [Norway]; Tamsø [now Tamsøya]; [no habitat data]; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 53 but not found during present study]; **TRH B3-1766.**
- Foslie; [Norway]; Tromsø; 'paa [= on] *L. tophiforme*'; 5.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH B3-1767.**
- Foslie; [Norway]; Tromsø; collection depth: ca 15 fathoms, 'paa [= on] *L. soriferum*'; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: large original round box includes a smaller unmarked box with one specimen and an annotation slip marked 'firdelte [= 4-parted]']; **TRH B3-1768.**
- [Foslie]; [Norway]; Tromsø; 'paa [= on] *L. ungeri*'; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. 4-delte [= sporangia 4-parted]'. Foslie is presumed to be the collector on the basis of information in the preceding entry (B3-1768)]; **TRH B3-3823.**
- Foslie; [Norway]; Tromsø, Lanes; collection depth: ca 5 fathoms, 'paa [= on] *L. tophiforme*'; 30.viii.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B3-1769.**
- Johnson, N.; Spitsbergen; mell. Norskøerne [now Norskøyene] - Amsterdamøen [now Amsterdamøya] [= between the Norwegian Islands - Amsterdam Island]; [no habitat data]; 1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 2-delte [= sporangia 2-parted]'. Annotation slip in box marked 'Overv. konc. – bør vel derfor henføres *L. flavescens*. Bør optages egen form (f. *balanicola*) [= overgrown conceptacles – should thus assign to *L. flavescens*. Should admit own form (f. *balanicola*)']. This possibly is the specimen referred to by Foslie (1905c: 20, footnote) as f. *balanicola*, but the epithet is not validly published (see Woelkerling 1993: 37, who had overlooked this collection). Adey & Lebednik 1967: 53 mistakenly list collector as 'Jónsson']; **TRH B3-1770.**
- Jónsson; Island [= Iceland]; Seydisfjordur; collection depth: 8-18 fathoms; 18.vi.1898; [no slides]; Jónsson collection number 182 'delvis [= in part]'; [no pfa]; [Note: box marked 'sp. 4-delte [= sporangia 4-parted]']; **TRH B3-1771.**
- Kjellman; [Norway]; Karlsø [now Karlsøy] (Tromsø amt [= Tromsø county]); [no habitat data]; vi.1875; slide 184; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 11; [Note: **Syn-type** material of *Lithothamnion flavescens* Kjellman. Box marked 'Sp. 4-delte [= sporangia 4-parted]'. Additional data — Woelkerling 1993: 95. Additional type material may be in **UPS** (Athanasiadis 1996: 43)]; **TRH B3-1772.**
- Kjellman; Spitsbergen; [no other locality data]; 'paa [= on] *L. glaciale*'; 1872-1873; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B3-1773.**

squamuliforme, *Lithothamnion* [originally described as *Lithothamnion squamuliforme* (Foslie 1905e: 17), where Foslie retained it in publication]. **Holotype:** TRH, B3-1774 (see below).

Gabriel; Australia; Victoria, Port Phillip Bay; [no habitat data]; 1901; slide 926; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 13; [Note: **Holotype** of *Lithothamnion squamuliforme* Foslie. Additional data — Woelkerling 1993: 206, and Woelkerling & Harvey 1993: 599. Annotation slip in large original box is marked 'Præp. [= slide] 926' and '*Lithoth.* n. sp. nær *repandum* sammensat af mgd. smaa skorper, n. taglagte - konc. tyndt dække og større end *rep.* ogsaa cyst. [= *Lithoth.* new species close to *repandum* composed of very small crusts, some roofed - conceptacles thin covered and larger than *repandum* also cystocarpic']. Large original box includes a large specimen, a medium-sized box and a small box. The medium-sized box contains a specimen, two packets and slide 926. One packet is marked 'nr. 32A' and 'Cyst. konc. foto. [= cystocarpic conceptacles photographed]' and contains one fragment. The other packet is marked 'nr. 32C' and 'Sp. konc.

foto. [= sporangial conceptacles photographed]' and contains one fragment. The small box is marked '= 926' and contains fragments]; **TRH B3-1774.**

Case B, Drawer 4

laeve, *Lithothamnion* [originally described as *Lithophyllum laeve* (Strömfelt 1886: 21) (a later homonym of *Lithophyllum laeve* Kützing 1847: 33), but then (Foslie 1891a:44) reduced to the rank of form and treated as *Lithophyllum lenormandii* f. *laeve*, and then (Foslie 1898b: 7) re-elevated to the rank of species and transferred into *Lithothamnion*, as *Lithothamnion laeve*, where Foslie retained it in publication]. **Holotype: S**, unnumbered (Düwel & Wegeberg 1996: 471). **Epitype: C**, EY920102 (Düwel & Wegeberg 1996: 473-474). Düwel & Wegeberg (1996) provide further information on the species and its type, and further nomenclatural data are provided by Woelkerling, Furnari & Comarci 2002: 616. A formal proposal (Athanasiadis & Adey 2003) to conserve the name *Lithophyllum laeve* Strömfelt based on a conserved type was rejected by the Committee for Algae (Compère 2004: 1066), and the rejection has been approved by the General Committee and the Nomenclatural Section of the International Botanical Congress in Vienna in July 2005].

On **TRH** collection boxes of this species, Foslie abbreviated Trondheimsfjorden as 'Thjemfj.' or 'Thjemfjorden'.

Bay; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, ved skjærene udenfor [= at the skerries outside] Havnefjorden; [no habitat data]; 22.vi.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2054; [no pfa]; [Note: box marked 'Cyst. & anth. [= cystocarpic & antheridial]' and '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1777.**

Bay; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, ved havnen i [= at the harbour in] Havnefjorden; collection depth: ca 60 metres; 18.vii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2124; [no pfa]; [Note: box marked 'Et par konc. [= a couple of conceptacles]']; **TRH B4-1776.**

Bay; [Canada]; [Northwest Territories], Ellesmerelands søndre kyst [= the southern coast of Ellesmereland], ved skjæret i [= at the skerry in] Havnefjorden [= Havnefjorden]; [no habitat data]; 30.vii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2328; [no pfa]; [Note: box marked 'koncept. [= conceptacles]' and '2 og 4 delte sp. [= 2- and 4-parted sporangia]']; **TRH B4-1775.**

Boye; [Norway]; Sognefj. munding [= mouth of Sognefjorden], Sulen [now Sula]; 'paa [= on] *Laminaria* rod [= holdfast]'; vii.1894; [no slides]; Boye collection number 84 'delvis [= in part]'; [no pfa]; [Note: box marked '(s. med [= mixed with] *L. crouanii*)' and '2 delte sp. [= 2-parted sporangia]'. The other part of Boye collection 84 is filed in Drawer A2 under *Lithophyllum crouanii* [A2-76]. Adey & Lebednik 1967: 54 list the entry as 'P. Borge, no. 84'; **TRH B4-1778.**

Boye; [Norway]; Sulen [now Sula] (Sogn), Stensund [now Steinsund]; collection depth: ca 40 metres in an exposed locality; vii.1894; [no slides]; Boye collection number 94; [no pfa]; [Note: box marked '*Lith. laeve* (ialf. delvis [= at least partly])' and '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1779.**

Børgesen; Færøerne [= Faeroe Islands]; Suderø Lobra; collection depth: 8 fathoms; 14.vi.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1780.**

- Collins, F.S.; [United States]; Maine, Saddleback Island [but see Note]; collection depth: 20 metres, from an old anchor; [no date]; [no slides]; Collins collection number 3376; [no pfa]; [Note: two localities are given on box – Saddleback Island, and Eagle Island in Penobscot Bay. Box marked ‘cyst. konc. [= cystocarpic conceptacles]’. Larger original box contains fragments in a small box marked ‘3376’]; **TRH B4-1781.**
- Dahl [probably O.C. Dahl]; [Norway]; Trondheimsfjorden, Tautra; collection depth: ca 12 fathoms; 20.iv.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘2 delte sp. [= 2-parted sporangia]’]; **TRH B4-1782.**
- Farlow; [United States]; Massachusetts, Eastport [but see Note]; [no habitat data]; [no date]; [no slides]; Farlow collection number III; pfa: Printz 1929, pl. 3, fig. 9; [Note: box marked ‘*L. lenormandi* Farl. (*L. stroemfeltii* Farl.?) = *L. laeve*’ and ‘4 delte sp. [= 4-parted sporangia]’. Locality on box lid given as ‘Eastport Gloucester Mass.’ while locality on one annotation slip in box listed as ‘Gloucester, Mass.’. Another annotation slip in box marked ‘Farlow 1900, III, = *L. laeve*’ and ‘*Melobesia lenormandi*, Aresch., Gloucester’]; **TRH B4-1783.**
- Farlow; [United States]; [Massachusetts], Gloucester ~~Eastport~~; on *Mytilus*; ix. [no year]; [no slides]; Farlow collection number VIII; [no pfa]; [Note: box marked ‘2 delte sp. [= 2-parted sporangia]’. Annotation slip in box marked ‘Herb. W.G. Farlow’ and ‘Eastport’ and ‘nr. VIII’ and ‘on *Mytilus*’, while on box lid Eastport is crossed out and replaced by Gloucester]; **TRH B4-1784.**
- Farlow; [United States]; [Massachusetts], Woods Holl; [no habitat data]; ix.1876; [no slides]; ex Herb. Bornet [PC]; [no pfa]; [Note: box marked ‘*Melob. lenormandi?* = *L. laeve* (steril [= sterile])’ and ‘jfr. [= cf.] Remarks north. Lith. [= Foslie 1905c]’]; **TRH B4-1785.**
- Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: ca 10 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on two mussel shells and some fragments. Collection rediscovered during present study. Collection not included in Adey & Lebednik 1967]; **TRH B4-3875.**
- Foslie; [Norway]; Alten, Rognsund, Mjaanes [now Alta, Rognsundet, Mjånes]; collection depth: 15 fathoms; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘4 delte sp. [= 4-parted sporangia]’]; **TRH B4-1786.**
- Foslie; [Norway]; Alten [now Alta], Sopnes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘sp. 4 delte [= 4-parted sporangia]’. Adey & Lebednik 1967: 53 list locality as ‘Lopnes’]; **TRH B4-1790.**
- Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘Ekspl. x 4 delte sp. [= specimen x 4-parted sporangia]’. Adey & Lebednik 1967: 53 mistakenly list collection depth as ‘10 fathoms’]; **TRH B4-1787.**
- Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: ca 10 fathoms; 10.viii.1897; slide 1051; [no other collection data]; [no pfa]; [Note: box marked ‘4 delte sp. [= 4-parted sporangia]’. Collection not included in Adey & Lebednik 1967]; **TRH B4-1788.**
- Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: ca 15 fathoms; 18.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 53 mistakenly list locality as ‘Rognsund, Nyånes’]; **TRH B4-1789.**
- Foslie; [Norway]; Bugønes i [= in] Sydvaranger [now Bugøyenes in Sør-Varanger]; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘ikke sp. [= no sporangia]’]; **TRH B4-1813.**
- Foslie; [Norway]; Drøbak; collection depth: 3-5 fathoms; 10.viii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘delvis overv. af [= partly overgrown by] *L. granii*’ and ‘2 delte sp. [= 2-parted sporangia]’. See C10-3106 for relevant collection of *Lithothamnion granii*. Specimen missing from box. Collection not included in Adey & Lebednik 1967]; **TRH B4-1791.**
- Foslie; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund, ydre side [= outer side]; collection depth: 3-5 fathoms; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘Sp. 2 delte, i papir [= sporangia 2-parted, in paper]’]; **TRH B4-1792.**

- Foslie; [Norway]; Finmarken [now Finnmark], Galten; collection depth: ca 5 fathoms; 28.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 53 list locality as 'Galta']; **TRH B4-1793.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik; collection depth: 10-15 fathoms; 8.vi.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1794.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik; collection depth: 15-20 fathoms; 5.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ekspl. i papir, 2 delte sp. [= specimen in paper, 2-parted sporangia]'. One of the specimens in the box is wrapped in paper. Collection not included in Adey & Lebednik]; **TRH B4-1795.**
- Foslie; [Norway]; [Finnmark], Loppen [now Loppa], Marholmen; collection depth: 10-15 fathoms; 10.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. m. [= mixed with] *L. glac.*)' and '2 og 4 delte sp. [= 2- and 4-parted sporangia]']; **TRH B4-1806.**
- Foslie; [Norway]; Finmarken, Loppen [now Finnmark, Loppa], havnen [= harbour]; collection depth: 10-15 fathoms; 12.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. m. [= mixed with] *L. toph.* & *L. glac.*)' and 'Sp. 2 delte [= sporangia 2-parted]'. See B10-2284 for the collection of *Lithothamnion glaciale*. Material of *L. tophi-forme* apparently was not separated into a different collection]; **TRH B4-1796.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; collection depth: 10 fathoms; 17.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(og [= and] *L. glac.*)'. See B10-2264 for the collection of *Lithothamnion glaciale*]; **TRH B4-1797.**
- [Foslie]; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 28.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst. konc. [= cystocarpic conceptacles]'. Foslie is presumed to be the collector as he also gathered a number of other collections from the same locality and date (e.g. C13-3202, C20-3494, C27-3798) and because he wrote the data on the box lid]; **TRH B4-1798.**
- Foslie; [Norway]; (Hfest [= Hammerfest]), Kvalsund; collection depth: 6-8 fathoms; 17.vii.1891; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B4-1800.**
- Foslie; [Norway]; Hammerfest, Melkøen [now Melkøya]; [no habitat data]; vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ingen sp. [= without sporangia]']; **TRH B4-1801.**
- Foslie; [Norway]; Hvalsund (ved Hfest [= near Hammerfest]); [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(og [= and] *L. glac.*)' and 'Sp. cyst. & anth. konc. [= sporangia cystocarpic & antheridial conceptacles]' and '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1802.**
- Foslie; [Norway]; Kopevik; collection depth: 15-20 fathoms; 5.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 53 but not found during present study]; **TRH B4-1803.**
- Foslie; [Norway]; Kirkenes i [= in] Sydvaranger [now Sør-Varanger]; 'paa konkylien [= on the conch (shell)]'; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. m. [= mixed with] *L. glac.*' and 'sp. 2 delte [= sporangia 2-parted]'. Collection includes one conch shell and four stones with coralline material. Annotation slip in box marked 'Sp. 2 delte paa konkylien [= sporangia 2-parted on the conch (shell)]']; **TRH B4-1814.**
- Foslie; [Norway]; Kjelmø i Sydvaranger [now Kjelmøya in Sør-Varanger], ydersiden [= outer side]; collection depth: 5-10 fathoms; 2.viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1815.**
- Foslie; [Norway]; Kra. fjorden [= Kristianiafjorden, now Oslofjorden], Langøgrunden mellem [= between] Hurumlandet og [= and] Mølen; collection depth: 6-10 fathoms; 13.viii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1804.**

- Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; collection depth: 10-15 fathoms; 8.ix.1890; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked '(s. m. [= mixed with] *L. glac.*)' and 'Sp. 4 delte [= sporangia 4-parted]'. Relevant collection of *L. glaciale* is B11-2311, originally identified as *L. colliculosum*. Also see C22-3560 under *Clathromorphum circumscriptum*, which is linked to this collection. Slide marked '*Lithophyllum lenormandii* f. *laeve*' and 'M. Foslie' and 'Tromsø amt. [= county]' and 'sporang. s. med [= sporangial, mixed with] *L. collic.*'. Collection includes conceptacle bearing fragments in a small box rediscovered during the present study and marked 'ca. 10 fathoms'. Adey & Lebednik 1967: 54 list locality as 'Kanangen'; **TRH B4-1805.**
- Foslie; [Norway]; indenfor [= within] Lille Skarsvaag [now Lille Skarsvåg]; collection depth: ca 15 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box lacks name *Lith. laeve* but is marked '4 delte sp. [= 4-parted sporangia]' and '(s. med [= mixed with] *L. glac.*)']; **TRH B4-1808.**
- Foslie; [Norway]; Malangen, Mestervik; [no habitat data]; 20.ix.1890; one unnumbered slide; [no other collection data]; [no pfa]; [Note: slide has name '*Lithophyllum lenormandii* f. *laeve*' on label and locality is given as 'Tromsø amt [= county], Mestervik']; **TRH B4-1807.**
- Foslie; [Norway]; Porsangerfj. [= Porsangerfjorden], Kistrand; collection depth: ca 4 fathoms; 11.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(og *L. glac.*)' and '4 delte sp. [= 4-parted sporangia]'. Grouped with B4-1810 under one entry in Adey & Lebednik 1967: 54]; **TRH B4-1809.**
- Foslie; [Norway]; Porsangerfj. [= Porsangerfjorden], Kistrand; [no habitat data]; 11.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. m. [= mixed with] *L. sørif. tophiforme*' and '4-delte sp. [= 4-parted sporangia]'. Grouped with B4-1809 under one entry in Adey & Lebednik 1967: 54]; **TRH B4-1810.**
- [Foslie]; [Norway]; Porsangerfjord, Tamsø [now Porsangerfjorden, Tamsøya]; collection depth: 10-12-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 6; [Note: box marked '(s. m. [= mixed with] *L. glac.* mulig [= maybe] *L. foec. ibl.* [= mixed with])' and '2 og 4 delte sp. [= 2- and 4-parted sporangia]']; **TRH B4-1811.**
- Foslie; [Norway]; Skarsvaag [now Skarsvåg] ved [= near] Nordkap [now Nordkapp]; collection depth: ca 1 og [= and] 7 fathoms; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH B4-1812.**
- Foslie; [Norway]; Trondheimsfjorden, Aatlo [now Ålto] (Frosta) [Peninsula]; collection depth: 6-8 fathoms; 5.viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4 delte (ekspl. i papir) [= sporangia 4-parted (specimen in paper)]' and 'Sp. cyst. anth. konc. [= sporangial cystocarpic antheridial conceptacles]']; **TRH B4-1817.**
- [Foslie]; [Norway]; Trondheimsfjorden, Frosten [now Frosta (Peninsula)], Hyndø [near Hyndøyvågen] (Aasenfj. [= Åsenfjorden]); collection depth: 10 fathoms; 16.vi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1816.**
- Foslie; [Norway]; Trondheimsfjorden, Frøsetskjær [now Frøsetskjeret] (Bynesset [now Bynesset]); collection depth: 5-6 fathoms; 31.v.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. laeve* (delvis [= in part])' and 'Ingen sp. [= without sporangia]']; **TRH B4-1818.**
- Foslie; [Norway]; Trondheimsfjorden, Gargrunden [now Gardsgrunnen] ved [= near] Tautra; collection depth: 8-10 fathoms; 15.vi.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1819.**
- Foslie; [Norway]; Trondheimsfjorden, Kvithyllen, Rissen [now Kvithyll, Rissa]; [no habitat data]; viii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. laeve* (delvis [= in part])' and '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1820.**
- Foslie; [Norway]; Trondheimsfjorden, Munkholmen; collection depth: 2-5 fathoms; x.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1821.**

- [Foslie]; [Norway]; Trondheimsfjorden, Munkholmen; collection depth: ca 10 fathoms; 12.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]'. Adey & Lebednik 1967: 54 list 'Foslie' as the collector, but Foslie's name does not appear on the box]; **TRH B4-1822.**
- Foslie; [Norway]; Trondheimsfjorden, Øxningen [now Øksningen] udenf. [= outside] Holmberget; collection depth: 6-8 fathoms; 16.vi.1894; slide 314; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1823.**
- Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; [no habitat data]; 1.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. (1 tredelt) [= 2-parted sporangia (one 3-parted)]']; **TRH B4-1824.**
- Foslie; [Norway]; Trondheimsfjorden, Røberg, Storneset [now Raudberget, Storneset]; [no habitat data]; 26.iii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. laeve* (delvis [= in part])' and 'sp. 2 delte [= sporangia 2-parted]']; **TRH B4-1825.**
- Foslie; [Norway]; Trondheimsfjorden, Sørvaagen, Moltne, Kongensvold [now Sørvågen, Moldtun, Kongensvollen], Vernes; collection depth: ca 20 fathoms; 7.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1826.**
- Foslie; [Norway]; Trondheimsfjorden, Storholmen indenfor [= within] Fløan; collection depth: 2-15 fathoms; 10.viii.1896; slide 283 [broken]; [no other collection data]; [no pfa]; [Note: box marked 'sp. 4 delte (største ekspl. i papir) [= sporangia 4-parted (largest specimen in paper)]' and 'Præp. 283 (lidet ekspl. i papir) [= slide 283 (small specimen in paper)]'. Only one specimen in box is wrapped in paper]; **TRH B4-1827.**
- Foslie; [Norway]; Trondheimsfjorden, Strømmen, Inderøen [now Straumen, Inderøya]; collection depth: 3-6 fathoms; 11.viii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. laeve* (delvis [= in part])' and '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1828.**
- Foslie; [Norway]; Trondheimsfjorden, Vanvik [now Vanvikan]; [no habitat data]; 19.viii.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4-delte sp. [= 4-parted sporangia]']; **TRH B4-1829.**
- Foslie; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya]; collection depth: 10-15 fathoms; 5.viii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4-delte sp. [= 4-parted sporangia]']; **TRH B4-1830.**
- Foslie; [Norway]; Vestfinmarken [= West Finnmark], Bergsfjord; collection depth: ca 10 fathoms; 21.viii.1891; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B4-1799.**
- Gran; [Norway]; Espevær; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1831.**
- [Hartz]; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], vest for [= west of] Hekla Havn; collection depth: 'indtil [= up to] 17 fathoms'; 31.vii.1892; [no slides]; collection numbers 36-37 'delvis [= in part]'; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles]'. Probably collected by Hartz but not indicated on box (see Lund 1959: 10). Remaining parts of same collection are filed under *Lithothamnion foecundum* (B2-1702) and *L. glaciale* (B9-2175) (where Hartz is listed as collector)]; **TRH B4-1858.**
- Johnson [N.]; Spitsbergen; mell. Norskøerne [now Norskøyene] - Amsterdamøen [now Amsterdamøya] [= between the Norwegian Islands - Amsterdam Island]; [no habitat data]; 1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. laeve* (s. med [= mixed with] *L. glac.* & *Lh. circumscr.*) ogsaa i særsk. æske [= also in separate box]' and '4-delte sp. [= 4-parted sporangia]'. Relevant collection of *L. circumscriptum* is C22-3582. Relevant collection of *L. glaciale* probably is B9-2241. The collection does not contain a special box. Grouped with B4-1834 under one entry in Adey & Lebednik 1967: 54]; **TRH B4-1833.**

- Johnson [N.]; Spitsbergen; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Lok.? [= locality?])']. Grouped with B4-1833 under one entry in Adey & Lebednik 1967: 54; **TRH B4-1834.**
- Jónsson; Island [= Iceland]; Vatternes; collection depth: 20-32 fathoms; 15.vii.1898; slide 1050; Jónsson collection number 413; pfa: Printz 1929, pl. 3, fig. 4; [Note: box marked 'cyst. og sp. konc. foto nr. 25 [= cystocarpic and sporangial conceptacles photograph number 25]' and 'sp. 2 delte – et konc. unders. [= sporangia 2-parted – one conceptacle examined]']; **TRH B4-1835.**
- Kruuse; [Greenland]; Østrgrønland [= East Greenland], Stenø; [no habitat data]; 8.vii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Af ekspl. modt. best. 4/iii.04 [= of specimen received order 4.iii.1904]' and 'Ingen konc. [= without conceptacles]'. Annotation slip in box marked 'Ikke tidl. kjendt fra Østrgrønland.? [= not earlier known from East Greenland?]' and '4/iii.04']; **TRH B4-1836.**
- Lundbeck; Island [= Iceland]; Talknafjord; [no habitat data]; 9.vii.1893; [no slides]; Lundbeck collection number 46 'delvis [= in part]', [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked 'Ingen sp. [= without sporangia]'. Other parts of Lundbeck collection 46 are filed under *Lithothamnion foecundum* (B2-1694) and *L. tophiforme* (C12-3175)]; **TRH B4-1837.**
- Nordgaard; [Norway]; Byfjorden, Bergen; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Faa konc. [= few conceptacles]']; **TRH B4-1838.**
- Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 17.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ingen sporer [= without spores]'. Adey & Lebednik 1967: 54 mistakenly list collector as 'E. Norman']; **TRH B4-1839.**
- Norum; [Norway]; Trondheimsfjorden, Aalbergholmen, Inderøen [now Ålbergholmen, Inderøya]; collection depth: 10-15 metres; 6.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Adey & Lebednik 1967: 54 mistakenly list collector as 'E. Norman']; **TRH B4-1840.**
- Norum; [Norway]; Trondheimsfjorden, Thunskjærene [Tunsøra bay] i [= in] Værran [now Veran]; collection depth: 15-20 metres; 8.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. med [= mixed with] *L. apicul.*?)' and '2 delte sp. [= 2-parted sporangia]'. Adey & Lebednik 1967: 54 mistakenly list collector as 'E. Norman']; **TRH B4-1843.**
- Norum; [Norway]; Trondheimsfjorden, Vaggen i [= in] Beitstadfjorden; collection depth: 10-15 metres; 29.vi.-4.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Adey & Lebednik 1967: 54 mistakenly list collector as 'E. Norman']; **TRH B4-1841.**
- Norum; [Norway]; Trondheimsfjorden, grund østenfor [= bank east of] Vaggen i [= in] Beitstadfjorden; collection depth: 30 metres; 2.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 54 mistakenly list collector as 'E. Norman']; **TRH B4-1842.**
- Ostenfeld; Island [= Iceland]; Dyrefjord; collection depth: 2-6 fathoms; 30.v.1895; [no slides]; ex Bot. Mus. Kbhavn [C]; [no pfa]; [Note: annotation slip in box marked 'Undersgt. 1 konc., ingen sp. [= examined one conceptacle, without sporangia]'. Collected during Danish Ingolf Expedition 1895-1896 but not so indicated on box]; **TRH B4-1844.**
- [Ostenfeld]; Island [= Iceland]; 66° 33'N, 20° 05'W; collection depth: 44 fathoms; 1896; [no slides]; Ingolf Exp. [= Danish Ingolf Expedition 1895-1896], station 127, [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked 'tømte konc. [= empty conceptacles]'. Collection cited by Foslie 1905c: 19. Ostenfeld collected all algae on the Danish Ingolf Expedition]; **TRH B4-1845.**
- Øyen; [Norway]; Indbryn [now Innbryn], Stod; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'subfoss. [= subfossil]']; **TRH B4-1846.**

- Ruggles; [Canada]; Nova Scotia, Bay of Fundy, Digby County, Freeport; on shells; xi.1897; [no slides]; comm. Mackay, number 2; [no pfa]; [Note: box marked '*L. laeve* (og [= and] *L. glaciale*)'. Annotation slip in box contains locality, collection date and habitat data]; **TRH B4-1848.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Ekrementbugten; [no habitat data]; 5.vii.1901; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2942; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1852.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, "Frokostneset" i [= in] Havnfjorden [= Havnefjorden]; collection depth: ca 10 metres; 29.vii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2202 [in part]; pfa: Printz 1929, pl. 3, fig. 5; [Note: box marked 'Koncept. [= conceptacles]' and '2 delte sp. [= 2-parted sporangia]'. The other part of collection 2202 is filed under *Lithothamnion foecundum* (B2-1697)]; **TRH B4-1850.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Hvalrosfjordens munding [= the mouth of Hvalrosfjorden]; [no habitat data]; 28.vi.1901; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2810; [no pfa]; [Note: box marked 'Etpar konc. [= a couple of conceptacles]'. Another box with identical collection data is filed in Drawer C20 under *Clathromorphum compactum* (C20-3484)]; **TRH B4-1853.**
- Simmons; [Canada]; [Northwest Territories], Ellesmerelands søndre kyst [= the southern coast of Ellesmereland], indre [= inner] Havnfjord [= Havnefjorden]; collection depth: ca 15 metres; 29.vii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2199; [no pfa]; [Note: box marked 'Konc. [= conceptacles]' and '2 og 4 delte sp. [= 2- and 4-parted sporangia]']; **TRH B4-1851.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Jammerbugten; [no habitat data]; 29.vi.1901; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2808; [no pfa]; [Note: box marked '2 og 4 delte [= 2- and 4-parted]'. Another box with identical collection data is filed in Drawer C20 under *Clathromorphum compactum* (C20-3485)]; **TRH B4-1849.**
- Simmons; [Canada]; [Northwest Territories], Ellesmerelands østre kyst [= the eastern coast of Ellesmereland], Rice Strait; collection depth: ca 40 metres; 24.viii.1898; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], Simmons collection number 331; pfa: Printz 1929, pl. 3, fig. 8; [Note: box marked '2 og 4 delte sp. [= 2- and 4-parted sporangia]'. Boxes with identical collection number and data are filed under *Lithothamnion foecundum* (B2-1698) and *Clathromorphum compactum* (C20-3482)]; **TRH B4-1854.**
- Vilke; [Norway]; Kvarven udenf. [= outside] Bergen; sublittoral region; 2.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte [= 4-parted]'. Large original box contains a stone with coralline material in a smaller box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B4-1855.**
- Waghorne; [Canada]; Newfoundland, Bay of Islands; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '/ sp. konc. [= sporangial conceptacles]'. Collector written on box as 'Waghorn']; **TRH B4-1856.**
- [Anon.]; Grønland [= Greenland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. foecundum* det. Kjellm. = *Lith. laeve* (og *foec.* særsk. æske [= and *foec.* distinct box)]' and 'tømte konc. [= empty conceptacles]'. The box containing *L. foecundum* almost certainly is in Drawer B2 (B2-1703)]; **TRH B4-1857.**
- [Anon.]; [Norway]; Alten [now Alta], Sopnes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(og ung [= and young] *L. glac.*)'. Adey & Lebednik 1967: 53 list locality as 'Lopnes']; **TRH B4-1862.**

- [Anon.]; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund, Gitterøsundet; collection depth: ca 5 fathoms; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]']; **TRH B4-1860.**
- [Anon.]; [Norway]; Haugesund; collection depth: ca 8-10 fathoms, 'sterk strøm [= strong stream]'; 19.vii.1902; slide 1052; [no other collection data]; [no pfa]; [Note: box marked '(s. m. [= mixed with] *Ph. polym. (Cl. comp.?)*, *L. sonderi*, spars. [= sparsely] & 4^{de} art [= & the fourth species])' and 'Anther. konc. [= antheridial conceptacles]' and '4 delte sp. [= 4-parted sporangia]'. Collection includes fragments in a small box marked '52'. Collections from same locality and date are filed under *Lithothamnion sonderi* (B15-2391) and *Phy-matolithon polymorphum* (C23-3632)]; **TRH B4-1861.**
- [Anon.]; [Norway]; Kjelmø [now Kjelmøya] i [= in] Sydvaranger [now Sør-Varanger], havnen [= the harbour]; collection depth: 4-6 fathoms; 3.viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Annotation slip in box marked 'firdelte sp. [= 4-parted sporangia]']; **TRH B4-1864.**
- [Anon.]; [Norway]; Puddefjorden, Bergen; collection depth: 3-5 fathoms; 25.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH B4-1859.**
- [Anon.]; [Norway]; Røvær, Ulvøsundet [now Ulvøysund]; collection depth: 5-8 fathoms; 21.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Etpar sp. konc. [= a couple of sporangial conceptacles]']; **TRH B4-1863.**
- [Anon.]; [Norway]; Trondheimsfjorden, Rotvoldbugten [now Rotvollbukta]; collection depth: ca 20 fathoms; 12.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Faa konc. [= few conceptacles]' and 'Ikke unders. sp. [= sporangia not examined]']; **TRH B4-1865.**
- [Anon.]; [Norway]; Verrafjorden, Kraakøren; [no habitat data]; 10.viii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH B4-1866.**
- [Anon.]; [United States]; Massachusetts, Gloucester; [no habitat data]; [no date]; [no slides]; ex herb. Farlow [FH], Farlow collection number III; [no pfa]; [Note: box marked 'Firdelte sp. [= 4-parted sporangia]'. Annotation slip in box marked '*L. stroemfeltii* = *L. laeve*'. Collection not included in Adey & Lebednik 1967]; **TRH B4-1867.**

tenue, *Lithothamnion Rosenvinge* (non *Lithophyllum tenue* Kjellman) [originally described as *Lithothamnion tenue* (Rosenvinge 1893: 778). Subsequently (Foslie 1895a: 173) needlessly renamed *Lithothamnion stroemfeltii* (see Düwel & Wegeberg 1996: 471-472). Later, Foslie (1905c: 17) incorrectly (see Woelkerling, Furnari & Comarci 2002: 616) treated both *Lithothamnion tenue* Rosenvinge and *L. stroemfeltii* as heterotypic synonyms of *Lithothamnion laeve*. Additional collections are in Drawer B2. Also listed in both drawers under *Lithothamnion tenue* in Adey & Lebednik 1967: 52, 54]. **Lectotype: C**, Hartz, no. 879 (Düwel & Wegeberg 1996: 478).

Hartz; Grønland [= Greenland]; Holstensborg; collection depth: 12 fathoms; 20.vi.1890; [no slides]; collection number 879; [no pfa]; [Note: **isolectotype** of *Lithothamnion tenue* Rosenvinge. Düwel & Wegeberg 1996: 478 provide information on lectotype [in C]. Box marked '2-delte sp. [= 2-parted sporangia]'. A printed label in box reads 'Plantae groenlandicae, a Museo botanico Hauniensi distributae [= Greenland Plants distributed from the Botanical Museum Copenhagen]' and includes hand-written collection data. Annotation slip in box marked 'todelte sp. [= 2-parted sporangia]'. Collection overlooked by Woelkerling (1993: 221) because of misplacement in Drawer B2. A second Hartz collection 879 labelled '*Lith. tenue* Rosenv.' occurs in **TRH** (B4-1832, just below). Another Hartz collection numbered 879 was identified by Foslie as *Lithothamnion glaciale* (see B9-2180)]; **TRH B4-1868.**

Hartz; Grønland [= Greenland]; Holstensborg; collection depth: 10-15 fathoms; vi.1890; [no slides]; collection number 879; [no pfa]; [Note: **Probable isolectotype** of *Lithothamnion*

tenue Rosenvinge. Düwel & Wegeberg 1996: 478 provide information on lectotype [in **C**]. Box marked '*Lith. tenue* Rosenv. = *L. laeve*' and 'Faa konc. [= few conceptacles]'. Collection depth data marked on label in box that also contains other collection data. Day of collection (20 June) not indicated on box lid but is present on B4-1868 and on the lectotype in **C**. Collection listed under *Lithothamnion laeve* in Adey & Lebednik 1967: 55, who mistakenly list the collection number as a slide. A second Hartz collection 879 labelled '*Lith. tenue* Rosenv.' occurs in **TRH** (B4-1868, just above). Another Hartz collection numbered 879 was identified by Foslie as *Lithothamnion glaciale* (see B9-2180)]; **TRH B4-1832**.

Rosenvinge; Grønland [= Greenland]; Upernivik; collection depth: 18 fathoms, 'paa *Mya* skal [= on *Mya* shell]'; 20.vii.1886; [no slides]; collection number 314 [in part]; [no pfa]; [Note: box marked '*L. tenue* Rosenv. *L. laeve*' and 'Ingen sp. [= without sporangia]'. The other part of collection 314 is filed in Drawer B2 under *Lithothamnion foecundum* (B2-1696). Collection probably cited under *Lithothamnion tenue* by Rosenvinge 1893: 781. Considered **syntype** material of *L. tenue* Rosenvinge (Woelkerling 1993: 221) prior to selection of lectotype (Düwel & Wegeberg 1996: 478). Collection listed under *Lithothamnion laeve* in Adey & Lebednik 1967: 55]; **TRH B4-1847**.

Case B, Drawer 5

During the present study, some loose notes containing information on cell or conceptacle dimensions were found that could not be linked to any particular collection. These now have been placed in an envelope marked 'Loose notes found in Drawer B5'.

lenormandii*, *Lithothamnion [originally described as *Melobesia lenormandii* (Areschoug 1852: 514) but subsequently (Rosanoff 1866: 85) transferred without change in rank into *Lithophyllum*, and then (Foslie 1895a: 178) into *Lithothamnion*, and subsequently retained under *Lithothamnion lenormandii* by Foslie]. **Lectotype: LD**, 50674 (Düwel & Wegeberg 1996: 476).

Arwidsson; [Sweden]; Bohuslen, Gullmarfjorden, "Bondhålet", Blåbergsholmens utsida [= outer side]; collection depth: ca 0.5 metres [see Note for further habitat data]; 10.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Under och utanför gles *Fucus*, på fast sand, delvis bevuxen med låg, lifligt grön *Zostera marina*. I förhållande till det instängda läget: frisk vattenomsättning! [= under and outside of sparse *Fucus*, on firm sand, partly growing with low, slightly green *Zostera marina*. In relation to the confined [?] layer: fresh water circulation!']; **TRH B5-1869**.

Batters; [United Kingdom]; [England], Berwick-upon-Tweed; [no habitat data]; i.1889; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1870**.

Bornet; [France]; Antibes (Alpes-maritimes) La Fourmiquie; [no habitat data]; 27.i.1859; two slides, both numbered 7; ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*G. papillosum lenorm.?*']; **TRH B5-1871**.

Chalon; [France]; Finistère, Guéthary; [no habitat data]; v.1903; [no slides]; [no other collection data]; [no pfa]; [Note: locality written on box is 'Finistère, Guéthary' but should be 'Basses Pyrénées, Guéthary']; **TRH B5-1872**.

Collins, F.S.; Amerika [= America] [meaning United States]; Maine, Cape Rosier; on stones & shells, also on sides of rock pools; vii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. lenormandi*, modt. [= received] /3.1899']; **TRH B5-1873**.

Debray; [Algeria]; Algier, Tipaza; [no habitat data]; 28.v.1890; [no slides]; Debray collection number 2; [no pfa]; [Note: box marked '(tidl. uners. *papill.* [= earlier examined *papill.*)]']; **TRH B5-1874**.

- Debray; [Algeria]; St. Eugène près [= near] Algier; [no habitat data]; ii.1888; [no slides]; Debray collection number 93; [no pfa]; [Note: Adey & Lebednik 1967: 56 mistakenly place 'St. Eugène' in France]; **TRH B5-1876.**
- Debray; [Algeria]; St. Eugène près [= near] Algier; [no habitat data]; xii.1896; [no slides]; Debray collection number 24; [no pfa]; [Note: Adey & Lebednik 1967: 56 mistakenly place 'St. Eugène' in France]; **TRH B5-1875.**
- Debray; [Algeria]; St. Eugène près [= near] Algier; [no habitat data]; xii.1896; [no slides]; Debray collection number 23; [no pfa]; [Note: Adey & Lebednik 1967: 56 mistakenly place 'St. Eugène' in France]; **TRH B5-1877.**
- Debray; [France]; Finistère, Glenans; [no habitat data]; [no date]; [no slides]; Debray collection number 65; [no pfa]; [Note: box marked '*Lith. sanderi lenormandi?* (& *L. incrustans partim* [= in part])']; **TRH B5-1878.**
- Debray; France; Pas de Calais; [no habitat data]; 24.ix.1880; [no slides]; Debray collection number 88; [no pfa]; [Note: box marked '*L. lenormandi* f.']; **TRH B5-1879.**
- Debray; France; Pas de Calais, Cap. Gris-Nez; 'sur [= on] *Balanus*'; 28.ix.1893; [no slides]; Debray collection number 48; [no pfa]; [Note: box marked '*Melobesia* rose lilas a l'état frais [= lilac when fresh]' and '*L. lenormandi* f.']; **TRH B5-1880.**
- Debray; [France]; Seine Inférieure, Bruneval; 'sur le rocher [= on rockbound coast]'; ix.1880; [no slides]; Debray collection number 52; [no pfa]; [Note: habitat data on annotation slip in box]; **TRH B5-1882.**
- Debray; Frankrige [= France]; Seine Inférieure, Fecamp; [no habitat data]; ix.1888; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Debray 1898 uden nr. [= without number])']; **TRH B5-1881.**
- Debray; Frankrige [= France]; Seine Inférieure, St. Jouin; [no habitat data]; ii.1882; [no slides]; Debray collection number 71; [no pfa]; [no notes]; **TRH B5-1883.**
- Farlow; U.S. Amerika [= America] [meaning United States]; [New Hampshire], Isles of Shoals, 50 miles north of Boston; [no habitat data]; ix.1900; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1884.**
- Flahault; [France]; Cette (Languedoc); [no habitat data]; 20.x.1891; [no slides]; Flahault collection number 232; [no pfa]; [Note: box marked with following collection numbers – 232, 255, 256, 261, 191, 252, 254, 277. Annotation slip in box marked 'Herb. C. Flahault' and 'in lacu salso "Étang de Chau" dicto propè Cette (Languedoc)']; **TRH B5-1885.**
- Foslie; [Norway]; Finmarken, Berlevaag [now Finnmark, Berlevåg]; [no habitat data]; 1.vii.1882; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1886.**
- Foslie; [Norway]; Finmarken, Loppen [now Finnmark, Loppa]; [no habitat data]; 15.vi.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1887.**
- Foslie; [Norway]; Florø; 'midtre vm. tem. udsat sted [= middle water mark, fairly exposed place]'; 10.viii.1899; slides 325-326; [no other collection data]; [no pfa]; [Note: collection includes two small boxes marked '325' and '326', each with one fragment. Grouped with B5-1889 and a collection of *L. lenormandii* f. *squamulosa* (B5-1963) under one entry in Adey & Lebednik 1967: 55]; **TRH B5-1888.**
- Foslie; [Norway]; Florø; [no habitat data]; 10.viii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with B5-1888 and a collection of *L. lenormandii* f. *squamulosa* (B5-1963) under one entry in Adey & Lebednik 1967: 55]; **TRH B5-1889.**
- Foslie; [Norway]; Haugesund; 'lit. reg [= littoral region]'; 23.vii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 18; [Note: box marked '*Lith. lenormandi* f. *typica*']; **TRH B5-1890.**
- Foslie; [Norway]; Haugesund; 'alm. lit. reg. [= common in littoral region]'; 23.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH B5-1891.**
- [Foslie]; [Norway]; Haugesund, Fæø [now Feøy]; 'paa [= on] *Fucus serratus*, nederste vm. [= lowest water mark]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box found during present study inside the box containing B5-1891. Collection not included in Adey & Lebednik 1967]; **TRH B5-3824.**

- [Foslie]; [Norway]; Dragøvik [near Dragøya] syd f. [= south of] Haugesund; collection depth: ca 5-6 fathoms; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box found during present study inside the box containing B5-1891. Collection not included in Adey & Lebednik 1967]; **TRH B5-3825.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box lacks further annotations (compare with B5-1892, B5-1893, and B5-3827). Collection not included in Adey & Lebednik 1967]; **TRH B5-3826.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Dubl. il reolen [= duplicates on the shelf]'. Collection not included in Adey & Lebednik 1967]; **TRH B5-1892.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. foto nr. 31B [= cystocarpic conceptacles photograph number 31B]']; **TRH B5-1893.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. foto. nr. 31C [= sporangial conceptacles photograph number 31C]'. Collection not included in Adey & Lebednik 1967]; **TRH B5-3827.**
- [Foslie]; [Norway]; Hvaløerne, Torbjørnskjær [now Hvaler, Torbjørnskjær]; 'nedre del fjæran [= lower part of the tidal zone]'; 29.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 55 list Foslie as the collector, but Foslie's name is not on the box]; **TRH B5-1896.**
- Foslie; [Norway]; Mandal, Risøbank [now Banken]; collection depth: 3 fathoms, 'paa sten & andre kalkalg. [= on stone and other calcareous algae]'; 18.vii.1904; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1897.**
- Foslie; [Norway]; Nordland [county], Lødingen; [no habitat data]; 4.vi.1881; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1899.**
- Foslie; [Norway]; Nordland [county], Lødingen; 'lit. reg [= littoral region]'; 6.x.1881; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1898.**
- Foslie; [Norway]; Trondheimsfjorden, Fløan, Storholmen; 'yderst alm. nedre del fj. [= very common in the lower part of the tidal zone]'; 10.viii.1896; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1900.**
- Foslie; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya]; littoral; 27.vii – 5.viii.1895; two slides, both numbered 6; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ytterøen 5/8-95 + 27/7, 10/8, 1/8' and 'Fjæren [= the tidal zone]'. Box contains fragments in two small boxes, one marked 'Præp. af Fuess [= slide of Fuess]' and the other marked with the same information as the large box. Collection not included in Adey & Lebednik 1967]; **TRH B5-1901.**
- Foslie; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya]; 'lit. reg. [= littoral region]'; 5.viii.1895; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1902.**
- Foslie; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya]; [no habitat data]; 7.viii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 55 but not found during present study]; **TRH B5-1903.**
- Foslie; [Norway]; Valdresund [now Vallersund]; 'litoralreg. [= littoral region]'; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: according to Adey & Lebednik 1967: 56, this collection also included a vial, but vial not found during the present study]; **TRH B5-1904.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dogs Bay, Gorteen Bay; 'lit. reg. – især vandpytter [= littoral region – especially water pools]'; 20.iv.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1905.**
- Gran; [Norway]; Bodø; 'paa [= on] *L. polymorphum*'; viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sands. strukket sig fra klp. over nedadvend. frie del af

- polym.* [= probably went from rocks downwards over free parts of *polym.*]; **TRH B5-1906.**
- Gran; [Norway]; Drøbak; [no habitat data]; xii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithothamn. lenormandi* (delvis [= in part])' and '(s. med [= mixed with] *Ph. laevigatum*)'. Relevant collection of *Phymatolithon laevigatum* is C25-3740]; **TRH B5-1907.**
- Gran; [Norway]; Romsdalen, Vestnes, Flatvaagen [now Flatevågen]; 'indelukket pold [= enclosed round fjord with narrow inlet]'; iii.1898; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1908.**
- Hariot; France; La Rochelle (Océan); [no habitat data]; iii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: packet marked '(noget forkrøblet [= somewhat dwarfed])'. It is unclear whether Hariot collected the sample or only sent it to Foslie. Adey & Lebednik 1967: 56 list the collection date as 'v.1906']; **TRH B5-1909.**
- Hauck; [Italy]; Adria [= Adriatic Sea], Miramar [north of Trieste]; [no habitat data]; 6.x.1879; [no slides]; annotation slip in box with printed words 'Herbarium Hauck' also marked 'ex herb. A. Weber [= Anna Weber van Bosse]' [L]; [no pfa]; [no notes]; **TRH B5-1910.**
- Holmes; [United Kingdom]; England, Cornwall, Borecastle; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1911.**
- Jónsson; Island [= Iceland]; Akureyjarhólmi ved [= near] Reykjavik; collection depth: 1-2 fathoms; 27.iv.1897; [no slides]; Jónsson collection number 209 'delvis [= in part]'; [no pfa]; [Note: annotation slip in box marked 'nær *squamul.* [= close to *squamul.*]' [i.e. *Lithothamnion squamulosum*]. The other part of Jónsson collection 209, not listed in Adey & Lebednik 1967, is filed under *Lithothamnion glaciale* (B9-2201)]; **TRH B5-1912.**
- Jónsson; Island [= Iceland]; Reykjavik; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1913.**
- Jónsson; Island [= Iceland]; Reykjavik; [no habitat data]; 5.vii.1905; [no slides]; Planta Islandica number 7; [no pfa]; [no notes]; **TRH B5-1914.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], in der grotte von [= in the cave at] Bagnole [Island]; [no other habitat data]; v.1895; slide 639; [no other collection data]; [no pfa]; [Note: collector indicated on slide but not on box lid. Box marked 'Præp. 639 af løse smaastk. af andet ekspl. [= slide 639 of loose small pieces of another specimen]']; **TRH B5-1944.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], grotte von [= cave at] Bagnole [Island]; [no habitat data]; 1.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]'. Locality on box is numbered '1)']; **TRH B5-1915.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], beim Schlachthaus [= at the slaughter house]; [no habitat data]; 6.vi.1895; slide 640; [no other collection data]; [no pfa]; [Note: box marked '1 ekspl. cyst. konc.? [= one specimen cystocarpic conceptacles]'. Locality on box is numbered '3)'. Annotation slip in box marked 'Skiller sig fra typisk *L. lenorman.* ved mindre sp. konc., som undertiden overvokses, og ved ngt. mere kjegleformige cyst. konc. [= different from typical *L. lenorman.* with smaller sporangial conceptacles, which is overgrown, and with some more conical formed cystocarpic conceptacles]'. Larger original box includes a specimen in a small box marked 'Præp. 640 [= slide 640]']; **TRH B5-1916.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; vi. '(og [= and] iii.?)'. 1895 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: date of collection is unresolved. Box lid gives two dates in 1895, but annotation slip in box is marked 'Helgoland vi.1893']; **TRH B5-1917.**
- Kuckuck; Marokko [= Morocco]; Tangier, nordlich der stadt [= north part of city]; collection depth: 17-33 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]']; **TRH B5-1918.**
- Kylin; [Sweden]; Bohuslen, Väderøarne; [no habitat data]; 23.vi.1905; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one stone marked '25' and

- 'Väderøarne' and '23.vi.1905'. Foslie originally placed this stone and the stone in B5-3828 in the same box and treated it as one collection. The two marked stones have been separated into distinct collections during the present study. Original box marked '(og [= and] *Phym. laevigatum?*)'. Annotation slip with original collection marked 'Bohuslen' and '25, Vaderöarne, 23/6 1905' and '26, Vaderöarne, 25/6 1905' and '*Lith. lenormandi* (og [= and] *Phym. laevigatum?*)'; **TRH B5-1919.**
- Kylin; [Sweden]; Bohuslen, Väderöarne; [no habitat data]; 28.vi.1905 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one stone marked '26' and 'Väderøarne' and '25.vi.1905' [not 28.vi.1905 as on box]. Foslie originally placed this stone and the stone in B5-1919 in the same box and treated it as one collection. The two marked stones have been separated into distinct collections during the present study. Original box marked '(og [= and] *Phym. laevigatum?*)'. Annotation slip with original collection marked 'Bohuslen' and '25, Vaderöarne, 23/6 1905' and '26, Vaderöarne, 25/6 1905' [28/6 on box cover] and '*Lith. lenormandi* (og [= and] *Phym. laevigatum?*)'; **TRH B5-3828.**
- Lagerheim; Sverige [= Sweden]; [Bohuslen], Väderøarne; [no habitat data]; viii.1882; [no slides]; ex herb. Kjellman [**UPS**]; [no pfa]; [Note: box marked 'vattenbrynet på Purpura' [meaning uncertain]]; **TRH B5-1920.**
- Mackay; Canada; [Nova Scotia], Halifax Harbour, Point Pleasant, within and opposite the mouth of the harbour; chip of reef at low water; 15.xi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: habitat data on annotation slip in box]; **TRH B5-1921.**
- Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: ca 1 fathom; 20.viii.1896; slide 1126; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. præpentioidis lenormandi*' and 'cyst. konc. [= cystocarpic conceptacles]'. Grouped with B5-1923 under one entry in Adey & Lebednik 1967: 57]; **TRH B5-1922.**
- Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: 1-1.5 metres; 20.viii.1896; slide 1127; [no other collection data]; [no pfa]; [Note: box marked 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]'. Grouped with B5-1922 under one entry in Adey & Lebednik 1967: 57]; **TRH B5-1923.**
- Nordgaard; [Norway]; Stod, Smaasan [now Småsan]; collection level: '43 m o.h. [= metres above sea level]'; 21.viii.1896; slides 1565a-1565b; [no other collection data]; [no pfa]; [Note: box marked 'subfossil'. Annotation slip in box marked 'Tildels overvokset af Bryozoaer [= partly overgrown by Bryozoa]' and 'Nordgaard præp. 1565b med bryozo. [= Nordgaard slide 1565b with bryozoa]'. Adey & Lebednik 1967: 55 list entry as 'O. Nordgård, Stod, Snåsa, 43 m., 1565a']; **TRH B5-1924.**
- Norum; [Norway]; Sandsund ved [= near] Røvær; collection depth: ca 3 fathoms, 'paa a. art [= on another species]'; 1.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 56 mistakenly list collector as 'E. Norman']; **TRH B5-1925.**
- Norum; [Norway]; Thjemfj. [= Trondheimsfjorden], Værran [now Verran], Thunskjærene [by Tunsøra]; 'litoral reg. [= littoral region]'; 9.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked '*L. lenormandi* (s. med *Phym. polym.*, særsk. æske [= mixed with *Phym. polym.*, distinct box])' and 'Grove skorper s. art? – f. *sublaevis* synes fortrinnsvis optr. besk. steder [= coarse crusts same species? – f. *sublaevis* seems to preferably occur in moderate places]' and 'leg. E. Norum']; **TRH B5-1957.**
- Norum; [Norway]; Thjemfj. [= Trondheimsfjorden], Værran [now Verran], Thunskjærene [by Tunsøra], Thunskjærene; 'litoralreg. [= littoral region]'; 9.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 55 mistakenly list collector as 'E. Norman']; **TRH B5-1926.**
- Phillips; [United Kingdom]; North Wales, Bangor; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1927.**
- Rosenvinge; [Denmark]; Bornholm, Rø; 'ved laveste vand merke [= at the lowest water mark]'; 9.vii.1901; [no slides]; Rosenvinge collection number 6988, [ex] Bot. Mus. Kbhavn [**C**]; [no pfa]; [Note: box marked '*L. lenormandi* fre. [= nearly (?)] f. *typica*']; **TRH B5-1928.**

- Rosenvinge; Denmark; Thisted; 'lavt vand [= low water]'; 10.ix.1890; [no slides]; [ex] Bot. Mus. Kbh. [C] Rosenvinge collection number 1064; [no pfa]; [Note: box marked '*L. lenormandi* f. *typica*']; **TRH B5-1929.**
- Sauvageau; Kanariske øer [= Canary Islands]; Puerto Orotava; 'litoralreg. [= littoral region]'; xii.1904-ii.1905; slides 1027-1028; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1930.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; from an exposed place; vi.1906; slide 1122; [no other collection data]; [no pfa]; [Note: box marked 'grovere ekspl. tildels nær *squamul.* udsat sted [= coarser specimen partly close to *squamul.* from exposed place] and 'lab. Arago'. Box cover also includes long annotation relating to specimens in box marked 'x' and 'o'. '*L. sonderi*' or '*Lithoph. incrust.*' also appear to be present]; **TRH B5-1931.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; 5.i.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(& *L. sonderi*)']; **TRH B5-1932.**
- Sauvageau; Frankrige [= France]; Dept. de la Charente Inférieure, Ile de Ré; [no habitat data]; iii.1900; [no slides]; comm. Bornet; [no pfa]; [Note: annotation slip in box marked '*L. lenormandi* f. med overv. koncept. – s. m. *polym.* og ofte overv. af denne. Abnormalt udviklet p.g.a. *polym.*? ell. konc. ej fuldt udv.? [= *L. lenormandi* f. with overgrown conceptacles – mixed with *polym.* and often overgrown by this. Abnormally developed because of *polym.*? or conceptacles not fully developed?]. Relevant collection of *Phymatolithon polymorphum* is C24-3728, filed under *P. polymorphum* f. *papillata*. Grouped with B5-1934 under one entry in Adey & Lebednik 1967: 56, who record 3 boxes, but only two were found during the present study]; **TRH B5-1933.**
- Sauvageau; [France]; Dept. de la Charente Inférieure, Ile de Ré; [no habitat data]; iii.1900; [no slides]; comm. Bornet; [no pfa]; [Note: box marked '*L. lenormandi* (ialf. delvis [= at least partly])'. Grouped with B5-1933 under one entry in Adey & Lebednik 1967: 56, who record 3 boxes, but only two were found during the present study]; **TRH B5-1934.**
- Sauvageau; [France]; Basses Pyrénées, Guéthary; [no habitat data]; iii.-v.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '6', and '*Lithoth. sonderi lenormandi* ialf. delvis! [= at least partly!]', and 'lave cyst. konc. [= low cystocarpic conceptacles]' and '*(Lithoph. subtenellum) (papillosum?)*']; **TRH B5-1935.**
- [Schreiner]; [Norway]; Kristiania [now Oslo], Nesodden; [no habitat data]; 17.xii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. lenormandi*' (begge ekspl.?). [= both specimens?]. Collection cited by Foslie 1895a: 183, who lists Schreiner as the collector]; **TRH B5-1936.**
- Solms-Laubach; [Italy]; Naples, grottes de [= cave at] Ventotene; [no habitat data]; 1879; slide 291; ex herb. Thur. - Born. [PC]; [no pfa]; [no notes]; **TRH B5-1937.**
- Tellam; [United Kingdom]; [England], Cornwall; [no habitat data]; 1901 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. adplicitum* Holmes = *L. lenormandi* fere [= nearly] f. *squarrosula*' and '(1901)'. It is unclear whether 1901 is the collection date or the date the material was sent to Foslie. Name of collector on box and in Adey & Lebednik 1967: 56 mistakenly given as Tellan]; **TRH B5-1938.**
- Tellam; [United Kingdom]; England, Cornwall, St. Minver near Padstow; [no habitat data]; [no date]; [no slides]; ex herb. E.M. Holmes [BM, not BIRM as indicated by Stafleu & Cowan 1979: 260], 1899; [no pfa]; [Note: name of collector on box and in Adey & Lebednik 1967: 56 mistakenly given as Tellan]; **TRH B5-1939.**
- Thuret; [France]; Cherbourg, Baie Saint Anne; [no habitat data]; 14.xii.1853; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*G. subtenellum?* *Papill.?* *Melobesia lenormandi?*' and '(antheridia)']; **TRH B5-1940.**
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900; [no slides]; comm. Sauvageau; [no pfa]; [no notes]; **TRH B5-1941.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 15; [Note: Adey

- & Lebednik 1967: 57 mistakenly interpreted the Roman number III as a collection number rather than a designation for the month of March]; **TRH B5-1942.**
- Wille; [Norway]; Lyngør; 'litoral. [= littoral [region]]'; 27.vii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1943.**
- [Anon.]; [France]; Cherbourg, Bai St. Anne; [no habitat data]; 14.xii.1853; [no slides]; ex herb. Bornet - Thuret [**PC**]; [no pfa]; [Note: box marked 'Anth. konc. foto nr. 31A [= antheridial conceptacles photograph number 31A]' and ' "bisporer" - carposp.? [= bisporer – carposporer?]' and 'Anth. konc. [= antheridial conceptacles]'. Larger original box contains fragments in a small original box marked with basic collection data and with 'antheridia']; **TRH B5-1945.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; 13.ii.1854; [no slides]; ex herb. Le Jolis [**CHE**]; [no pfa]; [no notes]; **TRH B5-1946.**
- [Anon.]; [Channel Islands]; Guernsey [Island]; [no habitat data]; [no date]; [no slides]; ex herb E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1899; [no pfa]; [no notes]; **TRH B5-1947.**
- [Anon.]; [United Kingdom]; Scotland, vestkyst [= west coast], Kitchatten Bay, Bute [but see Note]; [no habitat data]; [no date]; [no slides]; comm. Hannah Robertson; pfa: Printz 1929, pl. 3, fig. 16; [Note: box marked '*L. lenormandi* fere [= nearly] f. *squamulosa*' and '(return. ekspl. s. med. *L. incrustans* [= returned specimen mixed with *L. incrustans*)']'. The locality name is spelled 'Bule' on one side of box and 'Bute' on the other. Adey & Lebednik 1967: 56 mistakenly list 'Robertson' as the collector]; **TRH B5-1948.**
- [Anon.]; [Monaco]; Port de Monaco; [no habitat data]; [no date]; [no slides]; [comm.] Hariot 1909, number 5; [no pfa]; [Note: Adey & Lebednik 1967: 57 mistakenly list 'Hariot' as the collector and '1909' as the collection date]; **TRH B5-1949.**
- [Anon.]; [Norway]; Haugesund, Fæø [now Feøy]; collection depth: 3-5 fathoms, 'ydre side [= outer side]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1950.**
- [Anon.]; [Norway]; Haugesund, Fæø [now Feøy]; 'nedre vm., ydre side [= lower water mark, outer side]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1951.**
- [Anon.]; [Norway]; Hvaløerne [now Hvaler], Galtene [now Galtane] vestenfor [= west of] Skjærhalden [now Skjærhollen]; collection depth: ca 5 fathoms; 25.vii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1894.**
- [Anon.]; [Norway]; Hvaløerne, Skjærhalden, Storsanden [now Hvaler, Skjærhollen, Storesand]; 'opk. [= washed ashore]'; 16.vii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1895.**
- [Anon.]; [Norway]; Langesund, bugt indenfor badehusene [= bay within the bath houses]; collection depth: 0.5-1 fathoms; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH B5-1952.**
- [Anon.]; [Norway]; Lyngør; collection depth: 0.5-1 fathoms; 15.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Smaa stk. paa *L. collic.* fra s. strand [= small pieces on *L. collic.* from sand beach]'. See B20-2698 for relevant collection of *L. colliculosum*. Annotation slip in box with cell measurements also marked 'Enp. konc. [= uniporate (enporede) conceptacles] 240-400µ'; **TRH B5-1953.**
- [Anon.]; [Norway]; Røvær; [no habitat data, but see Note]; 21.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Springflo ebbe [= spring ebb tide]' and 'Dels ydre side, dels beskyttet [= in part outer side, in part protected]']; **TRH B5-1954.**
- [Anon.]; [Norway]; Røvær, Ulvøundet [now Ulvøysund]; collection depth: 5-8 fathoms; 21.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. lenormandi* (& *L. laeve*) ogsaa særsk. [= also distinct]']; **TRH B5-1955.**
- [Anon.]; [Norway]; Skudesnes; 'nederst lit. reg. [= lowest littoral region]'; 24.vii.1902; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1956.**

[Anon.]; Irland [= Republic of Ireland]; Ballina County; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. [Dublin] **[DBN]**, number 64; [no pfa]; [Note: the numbers 25, 51, 52, & 56 also are written on the box lid]; **TRH B5-1958.**

[Anon.]; Irland [= Republic of Ireland]; Baltimore; [no habitat data]; 8.ix.1895; [no slides]; [ex] Sc. Art Mus. [Dublin] **[DBN]**, number 54; [no pfa]; [no notes]; **TRH B5-1959.**

[Anon.]; Irland [= Republic of Ireland]; Roundstone; 'paa a. art? [= on another species?]; ix.1893; slide 1128; [ex] Science & Art Mus. Dublin **[DBN]**, number 59; [no pfa]; [Note: annotation slip in box marked '59' and 'Delvis beklædt med *incrustans* [= in part covered with *incrustans*']'. Larger original box contains a small, original, unmarked box with one piece of a specimen]; **TRH B5-1960.**

[Anon.]; [Sweden]; Bohuslen, Grebbestad; [no habitat data]; [no date]; slide 313; ex herb. Areschoug **[S]**; pfa: Printz 1929, pl. 3, fig. 14; [Note: collection not included in Adey & Lebednik 1967]; **TRH B5-1961.**

***lenormandii*, *Lithothamnion* (f. *squamulosa*)** [originally described as *Lithothamnion squamulosum* (Foslie 1895a: 183) but subsequently (Foslie 1905c: 13 (also see Foslie 1901a: 8)) reduced to the rank of form and treated as *Lithothamnion lenormandii* f. *squamulosa*. Collections listed in Adey & Lebednik 1967: 55-57 under species without mention of forma]. **Holotype:** TRH, B5-1962 (see below).

Boye; [Norway]; Sogn, Sulen [now Sula], indre [= inner] Stensund [now Steinsund]; 'nederst lit. reg. beskyttet [= lowest littoral region, protected]'; vii.1894; slide 65 and two slides numbered 8; [no other collection data]; pfa: Foslie 1895a, pl. 19, figs 24-26, and Printz 1929, pl. 3, figs 19-20; [Note: **Holotype** of *Lithothamnion squamulosum* Foslie. Additional data — Woelkerling 1993: 206. Collection comprises a larger box with two smaller boxes. Smaller boxes listed separately in Adey & Lebednik 1967: 55, who mistakenly give the collector as 'Boge'. *L. squamulosum* reduced to *L. lenormandii* f. *squamulosa* by Foslie 1905c: 13]; **TRH B5-1962.**

Foslie; [Norway]; Florø; 'ovenfor *Ph. polym.* – danner smalt belte h.v.d. ved nederste vm., ngt. uds. steder dels paa klip. dels balaner [= above *Ph. polym.* – forms narrow belt mainly at the lowest water mark, some exposed places partly on rock partly on *Balanus*]; 10.viii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped under one entry in Adey & Lebednik 1967: 55 with two collections of *L. lenormandii* (f. *lenormandii*) (B5-1888, B5-1889)]; **TRH B5-1963.**

Sauvageau; [France]; Basses Pyrénées, Guéthary; [no habitat data]; iii.-v.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. lenormandi* (f. *squam.?*)' and '(og [= and] *Lithoph. subtenellum*) ogsaa arter d° [= also the same species]'. Collection not included in Adey & Lebednik 1967]; **TRH B5-1964.**

Snyder; [United States]; California, Pacific Beach near San Diego; 'litoralreg. [= littoral region]'; [no date]; slide 581; comm. F.S. Collins 1901, collection D; [no pfa]; [Note: slide and one side of box has a question mark after the taxon name but the other side of the box does not']; **TRH B5-1965.**

Vilke; [Norway]; Algerøen [now Algrøna] ved [= near] Bergen; [no habitat data]; 2.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collector not listed in Adey & Lebednik 1967: 56]; **TRH B5-1966.**

[Anon.]; [Monaco]; Port de Monaco; [no habitat data]; [no date]; [no slides]; [comm.] Hariot 1909, number 6; [no pfa]; [Note: box marked '(steril [= sterile])'. Adey & Lebednik 1967: 57 mistakenly list 'Hariot' as the collector and '1908' as the collection date]; **TRH B5-1967.**

***lenormandii*, *Lithothamnion* (f. *sublaevis*)** [originally described as *Lithothamnion lenormandii* f. *sublaevis* (Foslie 1895a: 179), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 55-57 under species without mention of forma]. **Lectotype:** TRH, B5-1968 (see below).

Batters; [United Kingdom]; [England], Berwick-upon-Tweed; [no habitat data]; 1.iii.1889; slide 244; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 16; [Note: **Lectotype** of *Lithothamnion lenormandii* f. *sublaevis* Foslie. Additional data — Woelkerling 1993: 211]; **TRH B5-1968.**

Børgesen; Færøerne [= Faeroe Islands]; Suderø, Lobra; collection depth: 8 fathoms; 14.vi.1896; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B5-1969.**

Debray; Frankrige [= France]; Seine Inférieure, Fecamp; [no habitat data]; ix.1882; [no slides]; Debray collection number 53; [no pfa]; [Note: annotation slip in box marked 'Melobesia lenormandi, Areschoug' and 'Septembre 1882' and 'Fecamp (Seine Inférieure)' in one handwriting and 'f. *sublaevis*' in a second handwriting]; **TRH B5-1970.**

Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 3, fig. 17; [Note: the coralline is growing on a mussel shell that is marked '6'. Collection not included in Adey & Lebednik 1967]; **TRH B5-1971.**

[Anon.]; Irland [= Republic of Ireland]; West coast of Ireland, Clare Island; [no habitat data]; iv.1909; [no slides]; comm. A.D. Cotton; [no pfa]; [Note: box marked '*L. lenormandi* fere [= nearly] f. *sublaevis*' and 'Konk. nær sonderi [= conceptacles close to *sonderi*']. Collection not included in Adey & Lebednik 1967]; **TRH B5-1972.**

squamulosum, *Lithothamnion*. See listing above for *lenormandii*, *Lithothamnion* (f. *squamulosa*)

Case B, Drawer 6

During the present study, a loose note containing information on cell or conceptacle dimensions for several collections was found. It is now placed in an envelope marked 'Loose note found in Drawer B6'.

fruticulosum, *Lithothamnion* [originally described as *Spongites fruticulosa* (Kützinger 1841: 33). Subsequently Decaisne (1842b: 126) transferred without change in rank into *Melobesia*, then (Hauck 1883b: 274) reduced to the rank of form and transferred into *Lithothamnion* as *L. fasciculatum* f. *fruticulosum*, then (Foslie (1895a: 46) re-elevated to the rank of species within *Lithothamnion* (as *L. fruticulosum*), where Foslie retained it in publication. Species also (Heydrich 1900b: 315) transferred into *Paraspora*, but this placement not accepted by Foslie (1904d: 17, footnote 1, Foslie 1908c: 268)]. **Holotype:** L, 943.8-134 (Woelkerling 1985: 136, Woelkerling & Verheij 1995: 41).

Note: Additional collections marked *Lithothamnion fruticulosum* occur in Drawer B7 with collections of *Lithothamnion indicum*. Foslie (1907a: 7, 1907e: 99, 1907f: 183) transferred these collections from *L. fruticulosum* to *L. indicum* but did not change the names on his box covers. In addition, some collections in Drawer B6 are identified as *Lithothamnion fruticulosum* on the box lid but as *Lithothamnion fruticulosum* f. *crassiuscula* on the prepared slides. All such collections are listed here under *Lithothamnion fruticulosum* noting in each case when the name on the slide differs.

Børgesen; [France]; Korsika [= Corsica]; [no habitat data]; xi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Annotation slip in box marked 'Anth. konc. [= antheridial conceptacles]' and 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B6-1973.**

- Chalon; [France]; Finistère, Roscoff; [no habitat data]; viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Blandt en mgd. levende og især døde ekspl. af *L. calc.* [= among a lot of living and special dead specimens of *L. calc.*']. Annotation slip in box marked 'Lidt høiere konc. (og mindre) end *L. fruticosum* [= some higher conceptacles (and smaller) than *L. fruticosum*]'; **TRH B6-1975.**
- Chalon; [France]; [Finistère], [Roscoff], Duon; dredged; viii.1903; [no slides]; [ex] herbarium Chalon [BR]; [no pfa]; [Note: box marked '*Lithoth. calcareum* forma *mamillosum* Heydr.' and 'i [= in] Chalon, Alg. Mar. p. 206 –' and '= *L. fruticosum* (Kütz) Fosl. forkr. form [= dwarfed form]' and also marked 'og [= and] *L. sonderi* [&] *Phym. polymorph.*' and 'skorper [= crusts]'. One annotation slip in box marked 'Har same form fra Roscoff [= have same form from Roscoff]'. Another annotation slip in box stamped 'Herbier J. Chalon' and also marked 'Drague à Duon [= dredged at Duon]'; **TRH B6-1974.**
- Hauck; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; 2.v.1878; slide 4; [ex] herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked '*L. corall.* Cr. ex Hauck' and '*L. fasc. β frutic.* Hauck' and '= *L. frutic.?*'. Slide marked 'ded. 1878 [= he gave in 1878]', probably referring to the year in which Hauck sent the material to Bornet. Some cell measurements pertaining to slide 4 occur with measurements from other collections on a slip of paper filed in an envelope marked 'Loose notes found in Drawer B6'. Grouped with B6-1977, B6-1978 and B6-1979 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1976.**
- Hauck; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fascic. β fruticosum* Hauck = *L. fruticosum* (Kütz.) Fosl.'. Grouped with B6-1976, B6-1978 and B6-1979 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1977.**
- Hauck; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; [no slides]; number 37; [no pfa]; [Note: collection consists of two small round boxes housed in a newer brown box. One small box (with one fragment) marked '*L. fascicul. = L. fruticul.*'. Other small box (with three fragments) marked 'Cyst. konc. [= cystocarpic conceptacles]'. Grouped with B6-1976, B6-1977 and B6-1979 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1978.**
- Hauck; [Croatia]; [Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of fragments in two small round boxes housed in a newer brown box. Both small boxes marked '*L. fascicul.*' and 'Rovigno' and one also marked 'konc. [= conceptacles]'. Grouped with B6-1976, B6-1977 and B6-1978 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1979.**
- [Kuckuck]; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [Islands], zw. [= between] Bagnole [Island] und [= and] St. Catarina [Island]; collection depth: 30-32 metres; 4.xi.1899; slide 629; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticul. f.*'. Grouped with B6-1983, B6-1984, and a collection of f. *ramulosa* (B6-2070) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1982.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], two localities listed: '2) Bagnole' [Island] and '4) Zwischen [= between] Astorga u. [= and] Due Sorelle; collection depths: 20 metres (Bagnole) and 30-31 metres (Astorga); 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. 7 [= sporangial conceptacles 7]'. Large round box marked '*L. fruticosum*' but collection includes one fragment in a small round box marked '*L. frutic. f. crassiusc.*' and 'Adria Bagnole 4.11.99' and 'sp. konc. [= sporangial conceptacles]'. Grouped with B6-1982, B6-1984, and a collection of f. *ramulosa* (B6-2070) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1983.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Bagnole [Island]; three collection depths given: '5) 30-32 metres', '6) 21-26 metres' and '8) 20-23 metres'; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with B6-1982, B6-1983, and a collection of f. *ramulosa* (B6-2070) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1984.**

- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Pola, Brion. Inseln [= Brioni Islands], Brioni minor; collection depth: ca 18 metres; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '4a']. Grouped with B6-1987 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1986.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Pola, Brionische Inseln [= Brioni Islands], nahe bei [= near to] St. Giovanni; collection depth: 34-36 metres; [no date]; [no slides, but see Note]; [no other collection data]; [no pfa]; [Note: box marked "~~Gon. mammill. (?)~~ *L. fruticosum*". Locality on box is numbered '1b']. Annotation slip in box marked 'Ingen sporer [= without spores]'. Box is marked 'Præp. [= slide] 604, but slide 604 belongs to B6-1988, which has the same collection data but is marked as having cystocarpic conceptacles. Grouped with B6-1986 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1987.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Pola, Brionische Inseln [= Brioni Islands], nahe bei [= near to] St. Giovanni; collection depth: 34-36 metres; 7.vi.1895; slide 604; [no other collection data]; [no pfa]; [Note: one side of box marked 'Præp [= slide]. 604' and 'Delvis cyst. konc. [= partly cystocarpic conceptacles]'. Locality on box is numbered '1b']. One annotation slip in box has cell measurements and is marked '7.vi.1895' and 'Præp. [= slide] 604'. Another annotation slip is marked '7.vi.1895' and '1b'. Slide 604 marked '~~*L. fruticosum* f. *crassiuscula* Gon. mam.?~~' and has a collection date of 7.vi.1895. Collection not included in Adey & Lebednik 1967]; **TRH B6-1988.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands]; collection depth: 25-35 metres; 28.ix.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '1 + 3' before habitat data, and also marked '*L. fruticosum* f.'. Grouped under one entry in Adey & Lebednik 1967: 58 with collection of f. *clavulata* (B6-2061)]; **TRH B6-1989.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Orsera, zwischen [= between] Eiland Lunga [=Lunga Island] und [= and] Punta Petalon; collection depth: 18-22 metres; 17.xii.1896; slide 616; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum?* ung [= young]'. Locality on box is numbered '3']. Some cell measurements pertaining to slide 616 occur with measurements from other collections on a slip of paper filed in an envelope marked 'Loose notes found in Drawer B6'. Grouped with two other collections of *L. fruticulosa* (B6-1991, B6-1992) and three collections of *L. fruticulosa* f. *ramulosa* (B6-2073, B6-2074, B6-2075) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1990.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], vor [= near] Orsera, zwischen [= between] Eil. Càlle u [= and] – Eil. Gàliner; collection depth: 20 metres; 17.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. cyst. & anth. konc. [= sporangial cystocarpic & antheridial conceptacles]'. Annotation slip in box has detailed locality data. Grouped with two other collections of *L. fruticulosa* (B6-1990, B6-1992) and three collections of *L. fruticulosa* f. *ramulosa* (B6-2073, B6-2074, B6-2075) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1991.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], vor [= near] Orsera, zwischen [= between] Eil. Lunga [= Lunga Island] und [= and] Spitze [= point] Petalon; collection depth: 18-22 metres; 17.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]'. Precise locality data and collection depth on annotation slip in box. Grouped with two other collections of *L. fruticulosa* (B6-1990, B6-1991) and three collections of *L. fruticulosa* f. *ramulosa* (B6-2073, B6-2074, B6-2075) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1992.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], vor [= near] Orsera, zwisch. Eil. Call. u. Eil. Galiner [= between Calle Island and Galiner Island]; collection depth: 20 metres; 17.xii.1896; [no slides]; [no other collection data]; pfa: Foslie 1904d: pl. 3, fig. 10; [Note: box marked 'Anth. konc. [= antheridial conceptacles]' and '(2den halvdel af ekspl. afb. [= the second half of specimen is pictured] Lith. Adr. Meer.pl. 3, fig. 10 [= Foslie 1904d, pl.

- 3, fig. 10)'. This collection not grouped with other 17.xii.1896 Orsera collections in Adey & Lebednik 1967: 57]; **TRH B6-1993.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], [Pola]; collection depth: 24-26 metres; 7.vi.1895 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a newer brown box with two annotation slips. One slip has complete collection data and is dated 7.vi.1895. Second slip had depth data but is dated 11.vi.1895. Both slips marked '4b)', almost certainly a locality number of Kuckuck. Grouped with B6-1995 and B6-1996 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1994.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola; [no habitat data]; 7.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Delvis anth.? konc. [= partly antheridial? conceptacles]'. Grouped with B6-1994 and B6-1996 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1995.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola; [no habitat data]; 7.vi.1895; [no slides, but see Note]; [no other collection data]; [no pfa]; [Note: box marked 'anth.? [= antheridia?']'. Box is marked 'Præp. [= slide] 604, but slide 604 belongs to B6-1988. Grouped with B6-1994 and B6-1995 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1996.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Ins. [= Brioni Islands], Pola; collection depth: 24-38 metres; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles]' and 'cyst [= cystocarpic]'. Collection not included in Adey & Lebednik 1967]; **TRH B6-1997.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], westl. nahe bei [= westerly near to] Gaza Island; [no habitat data]; 11.vi.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 13, fig. 8; [Note: box marked 'Cyst. & anth. konc. [= cystocarpic & antheridial conceptacles]'. Locality on box is numbered '1b)'. One specimen in box is marked 'Lith. Mon. pl. 13, fig. 8 [= Printz 1929, pl. 13, fig. 8]'. Grouped with five other collections of *L. fruticosum* (B6-1999, B6-2000, B6-2001, B6-2002, B6-2003), one of *L. fruticosum* f. *crassiuscula* (B6-2067) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1998.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands]; collection depth: 25-35 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '3)' before depth data and also marked 'konc. [= conceptacles]'. Annotation slip in box marked 'Smaa cyst. konc. [= small cystocarpic conceptacles]'. Grouped with five other collections of *L. fruticosum* (B6-1998, B6-2000, B6-2001, B6-2002, B6-2003), one of *L. fruticosum* f. *crassiuscula* (B6-2067) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-1999.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], südlich von Eiland Gronghera [= south of Gronghera Island]; collection depth: 25-35 metres; 11.vi.1895; slide 605; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum*' but slide 605 marked '*L. fruticosum* f. *crassiuscula*'. Locality on box is numbered '3)'. Box also marked 'cyst. konc. tild. fremst [= cystocarpic conceptacles partly protruding]'. Annotation slip in box marked 'konc. afrundet [= conceptacles rounded]' and 'cyst. konc. [= cystocarpic conceptacles]'. Some cell measurements pertaining to slide 605 occur with measurements from other collections on a slip of paper filed in an envelope marked 'Loose note found in Drawer B6'. Grouped with five other collections of *L. fruticosum* (B6-1998, B6-1999, B6-2001, B6-2002, B6-2003), one of *L. fruticosum* f. *crassiuscula* (B6-2067) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2000.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], vor Bai Lago, inder mittle des Kanals [= near Baie Lago in the middle of the canal]; collection depth: 24-26 metres; 11.vi.1895; slide 607; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]'. Locality on box is numbered '4b)'. Name on box is '*L. fruticosum*' but name on slide is '*L. fruticosum* f. *crassiuscula*'. Annotation slip in box

marked 'Lidt mindre cell. end præp. 606 [= some smaller cells than slide 606]'. Slide 606 belongs to collection B6-2076. Grouped with five other collections of *L. fruticosum* (B6-1998, B6-1999, B6-2000, B6-2002, B6-2003), one of *L. fruticosum* f. *crassiuscula* (B6-2067) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2001**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwisch. [= between] Toronda [Island] u. [= and] Gaza [Island]; collection depth: 16-25 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. [= conceptacles]'. Locality on box is numbered '1d)'. Grouped with five other collections of *L. fruticosum* (B6-1998, B6-1999, B6-2000, B6-2001, B6-2003), one of *L. fruticosum* f. *crassiuscula* (B6-2067) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2002**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands]; collection depth: 25-35 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: top of box marked '3)' before depth data. Bottom of box marked '*L. fruticosum* f. nær [= close to] *solutum*'. Grouped with five other collections of *L. fruticosum* (B6-1998, B6-1999, B6-2000, B6-2001, B6-2002), one of *L. fruticosum* f. *crassiuscula* (B6-2067) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2003**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands]; collection depth: 15-30 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '7)' before depth data and also marked 'Cystoc. [= cystocarpic]'. Collection not included in Adey & Lebednik 1967]; **TRH B6-2004**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. [= conceptacles]' and 'Obs. snit lille æske [= observed cut small box]'. Original round box contains fragments in a small unnumbered round box. Collection not included in Adey & Lebednik 1967]; **TRH B6-2005**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], nach dem [= past] Quietto, vor [= before] Fontane; collection depth: 15-22 metres; 14.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '1)'. Grouped with B6-2007 and B6-2008 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2006**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], nach dem [= past] Quietto; collection depth: 15-23 metres; 14.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Største anth.? konc. [= largest antheridial? conceptacles]' and 'Røde med skorpe af *L. papill?* [= red with crust of *L. papill?*']. Locality on box is numbered '4)'. Grouped B6-2006 and B6-2008 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2007**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], nach dem [= past] Quietto, von [= near] Fontane; collection depth: 15-22 metres; 14.xi.1899; slide 842; [no other collection data]; [no pfa]; [Note: box marked '*G. notarisii* forkr. form [= dwarfed form]' and 'sporangier [= sporangia]'. Name on slide is '*L. fruticl.*'. Locality on box is numbered '1)'. Annotation slip in box marked 'Koncept. nær typisk *not.*, men cell. tildels tem. store [= conceptacles close to typical *not.*, but cells rather partly large]'. Grouped with B6-2006 and B6-2007 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2008**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Parenzo; two collection depths: '2) 25 metres' and '4) 25-15 metres'; 11.x.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles]']; **TRH B6-2010**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Parenzo, nòrdl. Eil. Lunga [= north of Lunga Island]; collection depth: 20-32 metres; 11.x.1899; slide 772; [no other collection data]; pfa: Foslie 1904d, pl. 3, fig. 8; [Note: box marked 'cyst. konc. [= cystocarpic conceptacles]'. Box lid also marked 'Af s. ekspl.: [= of same specimen:] a = præp. [= slide] 772, b = Lith. Adr. Meer. etc. Taf. 3, fig. 8 [= Foslie 1904d, pl. 3, fig. 8]'. Locality on box is numbered '1)'. Specimens identified on box lid as '*L. fruticosum*' but slide 772 is marked '*L. fruticosum* f. *crassiuscula* ung [= young]'. Annotation slip in box marked '*L. frut. f.*

- crassiuscula*, Adriaterhavet, præp. [= slide] 772'. Grouped with a collection f. *ramulosa* (B6-2076) under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2011**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 24-25 metres; 24.v.1895; slide 632; box marked '3'); [no pfa]; [Note: box marked '*L. fruticosum*' but slide 632 marked '*L. fruticosum* f. *crassiuscula*'. Slide also marked 'Rovigno lok. 2 [= locality 2]' and '24-25 m.'. Box also marked 'Obs. smaa sp. konc. [= small sporangial conceptacles observed]' and '(Blandt *G. brass. fl.* [= amongst *Goniolithon brassica-florida*])']; **TRH B6-1980**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Bagnole [Island], nahe bei [= near to] St. Catarina [Island]; collection depth: 25 metres; 6.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum* ung [= young]' and 'cyst. konc. [= cystocarpic conceptacles]'. Locality on box is numbered '1)']; **TRH B6-1981**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], zwischen [= between] Prioni [now Piroso Island] u. dem Festlande [= and the mainland]; collection depth: 20-25 metres; 10.i.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 13, fig. 11; [Note: box marked 'Rovigno winter 96-97'. Locality on box is numbered '2)']; **TRH B6-2009**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], vor [= near] St. Catarina [Island]; collection depth: 20-27 metres; 25.xi.1896; slide 633; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum*' but slide marked '*L. fruticosum* f. *crassiuscula*'. Box also marked 'Konc. [= conceptacles]' and 'og [= and] '*G. brassica-florida* Konc [= conceptacles]' and '(delte! [= divided!)]'. Grouped with B6-2013 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2012**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], vor [= near] St. Catarina [Island]; collection depth: 20-27 metres; 25.xi.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles]'. Grouped with B6-2012 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2013**.
- Kuckuck; Phoenicia [now Lebanon]; Beirut; collection depth: 15-20 metres; 19.iii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B6-2014**.
- Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; two numbers and collection depths given: '1) 17-33 metres' and '3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst. & anth.? [= cystocarpic & antheridial?]']. Grouped with B6-2016, B6-2017, B6-2018 and B6-2019 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2015**.
- Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; two numbers and collection depths given: '1) 17-33 metres' and '3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tildels sammenv. med *L. calc.*? [= partly coalesced with *L. calc.*']'. Grouped with B6-2015, B6-2017, B6-2018 and B6-2019 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2016**.
- Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; two numbers and collection depths given: '1) 17-33 metres' and '3a) 15-20 metres'; 14.vi.1901; slide 796; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Lave cyst. konc. ligner *L. frutic.* [= low cystocarpic conceptacles looks like *L. frutic.*]' and 'anth. konc. [= antheridial conceptacles]'. Grouped with and B6-2015, B6-2016, B6-2018 and B6-2019 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2017**.
- Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; two numbers and collection depths given: '1) 17-33 metres' and '3a) 15-20 metres'; 14.vi.1901; slide 790; [no other collection data]; [no pfa]; [Note: original round box includes fragments in a small round box marked '790'. Grouped with B6-2015, B6-2016, B6-2017 and B6-2019 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2018**.
- Kuckuck; Marokko [= Morocco]; Tanger [= Tangier]; two numbers and collection depths given: '1) 17-33 metres' and '3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tildes med koncept. som nærmer sig. *L. calc.* [=

- partly with conceptacles that approach *L. calc.*']. Grouped with B6-2015, B6-2016, B6-2017 and B6-2018 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2019.**
- Kuckuck; [Turkey]; østl. Middelhavet [= the Eastern Mediterranean], Gulf of Budrum [now Bodrum], (Halicarnass [now Halicarnassus]); [no habitat data]; 26.iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Asia minor)']; **TRH B6-2020.**
- Lichtenstern; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; slide 28; ex herb. Bot. Mus. Vienna [**W**]; [no pfa]; [Note: box marked '*L. fascic. Aresch.*''] and 'Koncept. [= conceptacles]'. Adey & Lebednik 1967: 57 list collector as 'Franz-Lichtenstein']; **TRH B6-2021.**
- Lichtenstern; [Croatia]; Adraitervhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; [no slides]; ex herb. Bot. Mus. Vienna [**W**]; pfa: Printz 1929, pl. 13, fig. 2; [Note: box marked '*L. fascic. Aresch.*'']. Grouped with B6-2023 and with collections of f. *clavulata* (B6-2063) and f. *ramulosa* (B6-2078) under one entry in Adey & Lebednik 1967: 57 who list collector as 'Franz-Lichtenstein']; **TRH B6-2022.**
- Lichtenstern; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; slide 27; [ex herb.] Bot. Mus. Vienna [**W**]; pfa: Printz 1929, pl. 13, fig. 2; [Note: box marked 'Brudst. af ekspl. [= fragments of specimen]' and '*L. fascic. Aresch.*'']. Slide marked '*L. fruticosum delvis* [= in part]' and 'Rovigno' and 'ex herb. Bot. Mus. Wien'. Grouped with B6-2022 and with collections of f. *clavulata* (B6-2063) and f. *ramulosa* (B6-2078) under one entry in Adey & Lebednik 1967: 57 who list collector as 'Franz-Lichtenstein']; **TRH B6-2023.**
- M'Calla; Irland [= Republic of Ireland]; Galway, Roundstone Bay; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. [Dublin] [**DBN**]; [no pfa]; [Note: box marked '73 delvis [= in part]' and 'koncept.? [= conceptacles?]' and '*L. fruticosum non. Ung.* [= not of Unger]'. Apparently grouped with B-2059 (but collector not indicated) from Roundstone Bay under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2024.**
- Mouchez [but see Note]; Mauritania; [no other locality data]; [no habitat data]; 1876; slide 290; ex herb. Thuret [**PC**]; [no pfa]; [Note: box marked 'Tag snit! [= cut taken!]' and '*Lith. crassum*. = *L. fruticosum*?' and 'det. Born.'. Slide marked '*Lithophyllum racemus*?' and '*L. crassum*' and 'det. Born.'. Collector incorrectly recorded on box as 'Mouchaz' but correct spelling given on remaining part of collection in **PC** (see Lemoine 1912: LV, entry under *L. fruticosum*). Adey & Lebednik 1967: 58 also record collector as Mouchaz]; **TRH B6-2025.**
- Solms [Laubach]; [Italy]; Naples; [no habitat data]; ii.1880; slide 6; [ex] Herb. Thuret - Bornet [**PC**]; [no pfa]; [Note: box marked 'a.' and '*L. fascic. Aresch. (Spongites frut. Kütz.)*' and 'Solms leg. nr. 3, ex Solms L. in litt' and '= *L. ramulosa frutic.*'. Grouped with B6-2028 and B6-2029 under one entry in Adey & Lebednik 1967: 58, who give the collection date as 'xii.1880', do not identify the collector and list Solms as 'Solus']; **TRH B6-2027.**
- Solms [Laubach]; [Italy]; Naples; [no habitat data]; ii.1880; [no slides]; [ex] Herb. Thuret - Bornet [**PC**]; [no pfa]; [Note: box marked 'b' and '*L. fascicul. Aresch. (Spong. frutic. Kütz.)*' and 'Solms leg. nr. 3, ex Solms Laub. in lit' and '= *L. fruticul.*'. Grouped with B6-1027 and B6-2029 under one entry in Adey & Lebednik 1967: 58, who give the collection date as 'xii.1880', do not identify the collector and list Solms as 'Solus']; **TRH B6-2028.**
- Solms [Laubach]; [Italy]; Naples; [no habitat data]; ii.1880; slide 3; [ex] Herb. Thuret - Bornet [**PC**]; [no pfa]; [Note: box marked 'c' and '*L. fascic. Aresch. (Spong. frutic. Kütz.)*' and 'Solms leg. nr. 3, ex Solms L. in lit' and '= *L. fruticul.*'. Some cell measurements pertaining to slide 3 occur with measurements from other collections on a slip of paper filed in an envelope marked 'Loose note found in Drawer B6'. Grouped with B6-2027 and B6-2028 under one entry in Adey & Lebednik 1967: 58, who give the collection date as 'xii.1880', do not identify the collector and list Solms as 'Solus']; **TRH B6-2029.**
- Vanhöffen; [Cape Verde]; St. Vincent; [no habitat data]; ix.1901; slide 919; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Med grove porer men konc. ej saa flade som sedv. hos *frutic.* - ngt. hvelvet (konvekse) som *clavul.* [= with coarse pores

- but conceptacles not so flattened as usual as those of *fruticulosum* – some curved (convex) as *calvul.*]. Grouped with B6-2031 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2030.**
- Vanhöffen; [Cape Verde]; St. Vincent; [no habitat data]; ix.1901; [no slides]; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles] 500-600 μ ']. Grouped with B6-2030 under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2031.**
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticul.* (?)' and 'Sp. konc. [= sporangial conceptacles]']. Collection not included in Adey & Lebednik 1967]; **TRH B6-2032.**
- Vickers; [Italy]; Neapel [= Naples]; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]' and 'sp. konc. tildels n. som hos *phil.* [= sporangial conceptacles partly close to those of *L. philippii*']]; **TRH B6-2033.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; slide 1506; [no other collection data]; [no pfa]; [Note: box marked '~~*Gon. mamillosum?*~~ *L. fruticulosum?*']. Grouped with B6-2035, B6-2036, B6-2037, B6-2038 and B6-2039 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2034.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]']. Grouped with B6-2034, B6-2036, B6-2037, B6-2038 and B6-2039 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2035.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. [= cystocarpic]']. Grouped with B6-2034, B6-2035, B6-2037, B6-2038 and B6-2039 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2036.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '~~*Gon. mamillosum*~~ *L. fruticul.*' and 'Cyst. [= cystocarpic]']. Grouped with B6-2034, B6-2035, B6-2036, B6-2038 and B6-2039 under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2037.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; slide 1507; [no other collection data]; [no pfa]; [Note: box marked '~~*Gon. mamillosum?*~~ *L. fruticulosum*']. Annotation slip in box marked 'Ikke skrå celler [= no tilted cells]'. Grouped with B6-2034, B6-2035, B6-2036, B6-2037 and B6-2039) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2038.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]']. Grouped with B6-2034, B6-2035, B6-2036, B6-2037 and B6-2038) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2039.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst.! [= cystocarpic!]']. Grouped under one entry in Adey & Lebednik 1967: 57 with a collection of f. *clavulata* (B6-2064)]; **TRH B6-2040.**
- [Anon.]; Adriaterhavet [= Adriatic Sea]; [no other locality data]; [no habitat data]; x.1908; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 57 list Rovigno as the collection locality, but that locality name is not written anywhere on or inside the box]; **TRH B6-2041.**
- [Anon.]; [Algeria]; Algier, Matifon; dredged; 20.v.1890; [no slides]; Herb. Debray collection number 9a; [no pfa]; [Note: box marked '9a' and 'Debr. 1-19' and '*L. fasciculatum*' and '~~*L. uncinatum?*~~']. Annotation slip in box marked '*Lithothamnium fasciculatum* Aresch.' and 'Algier, Matifon drague' and '20.v.1890' and '9']; **TRH B6-2043.**
- [Anon.]; [Canary Islands]; Gran Canaria, Las Palmas, Confital; 'rocheres de [= rocks at] Confital'; [no date]; slide 10; herb. A. Vickers, ex herb. Bornet [PC]; [no pfa]; [Note: box marked '*Lithoth. crassum*' and '*L. fruticulosum* f.?' and 'ser. Born']; **TRH B6-2044.**

- [Anon.]; [France]; Finistère, [Iles Glénans]; [no habitat data]; [no date]; slide 278; ex herb Debray [**AL**, according to Stafleu & Mennega 1998: 130], collection number 13b; [no pfa]; [Note: box marked '*L. frutic. (?)*' and '(Debray 1-19)' and '(13 ex parte)'. Debray collection number 13a is filed under *Lithothamnion calcareum* in Drawer C1 (C1-2830). Grouped with B6-2046 under one entry in Adey & Lebednik 1967: 58, who list the collector as 'Gleams']; **TRH B6-2045.**
- [Anon.]; [France]; Finistère, Glenans; [no habitat data]; [no date]; [no slides]; ex herb Debray [**AL**, according to Stafleu & Mennega 1998: 130], collection number 96 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. calcareum* vistnok [= most certainly] *calcareum fruticulosum* (delvis [= in part])?'. Grouped with B6-2045 under one entry in Adey & Lebednik 1967: 58, who list the collector as 'Gleams']; **TRH B6-2046.**
- [Anon.]; [France]; St. Malo; [no habitat data]; vii.1872; [no slides]; [ex] herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: box marked 'sp. konc [= sporangial conceptacles] ca 400µ']; **TRH B6-2047.**
- [Anon.]; [France]; Villefranche s/m [= Villefranche-sur-Mer]; [no habitat data]; [no date]; [no slides]; comm. J. Chalon 1905; [no pfa]; [Note: box marked '(med cyst. konc. [= with cystocarpic conceptacles])' and 'partim [= in part]'. Collection not included in Adey & Lebednik 1967]; **TRH B6-2048.**
- [Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; [no date]; [no slides]; comm. Spyridion Miliarakis; pfa: Foslie 1904d, pl. 1, fig. 15; [Note: box marked 'sp. & cyst. konc. [= sporangia & cystocarpic conceptacles]'. Grouped with B6-2050 under one entry in Adey & Lebednik 1967: 58, who mistakenly list 'Miliarakis' as the collector]; **TRH B6-2049.**
- [Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; [no date]; [no slides]; comm. Spyridion Miliarakis; [no pfa]; [Note: annotation slip in box marked 'Ingen sporer [= without spores]'. Grouped with B6-2049 under one entry in Adey & Lebednik 1967: 58, who mistakenly list 'Miliarakis' as the collector]; **TRH B6-2050.**
- [Anon.]; [Italy]; Gulfo di Napoli [= Gulf of Naples]; collection depth: 30-80 metres; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. & cyst. konc. [= sporangia & cystocarpic conceptacles]' and 'Analyse nr. 13' and '*"Lith. ramulosum"* Zool. St. Neapel'. Grouped with B6-2052 and with a collection of *L. fruticulosum* f. *crassiuscula* (B6-2068) under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2051.**
- [Anon.]; [Italy]; Gulfo di Napoli [= Gulf of Naples]; collection depth: 30-80 metres; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*"L. ramulosum"* Zool. St. Neapel' and '*L. fruticulosum*'. Grouped with B6-2051 and with a collection of *L. fruticulosum* f. *crassiuscula* (B6-2068) under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2052.**
- [Anon.]; Mare Mediterr. [= the Mediterranean], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; slide 612; ex Herb. Kützing [**L**]; [no pfa]; [Note: **Holotype fragment** of *Spongites fruticosus* Kützing. Additional data — Woelkerling 1993: 99]; **TRH B6-2053.**
- [Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot vi.1906, number 2 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked 'steril [= sterile]'. Grouped under one entry in Adey & Lebednik 1967: 58 (who mistakenly list 'Hariot' as the collector) with four other Monaco collections (B6-2055, B6-2056, B6-2057, B6-2058) sent by Hariot in 1906 (numbers 3, 11, 13, 14)]; **TRH B6-2054.**
- [Anon.]; Monaco; Middelhavet [= the Mediterranean], [no other locality data]; [no habitat data]; [no date]; slide 1034; comm. Hariot 1906, number 3 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked 'konc [= conceptacles] 300-600µ'. Grouped under one entry in Adey & Lebednik 1967: 58 (who mistakenly list 'Hariot' as the collector) with four other Monaco collections (B6-2054, B6-2056, B6-2057, B6-2058) sent by Hariot in 1906 (numbers 2, 11, 13, 14)]; **TRH B6-2055.**
- [Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot vi.1906, number 11 [material almost certainly sent from **PC**]; [no pfa]; [Note: box

marked '*L. fruticosum?*' and 'steril [= sterile]'. Grouped under one entry in Adey & Lebednik 1967: 58 (who mistakenly list 'Hariot' as the collector) with four other Monaco collections (B6-2054, B6-2055, B6-2057, B6-2058) sent by Hariot in 1906 (numbers 2, 3, 13, 14)]; **TRH B6-2056**.

[Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm.

Hariot vi.1906, number 13 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked '*L. fruticosum?*' delvis beklædt med [= partly covered with] *L. philippi?*' and 'steril [= sterile]'. Grouped under one entry in Adey & Lebednik 1967: 58 (who mistakenly list 'Hariot' as the collector) with four other Monaco collections (B6-2054, B6-2055, B6-2056, B6-2058) sent by Hariot in 1906 (numbers 2, 3, 11, 14)]; **TRH B6-2057**.

[Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm.

Hariot vi.1906, number 14 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked '(steril [= sterile])'. Grouped under one entry in Adey & Lebednik 1967: 58 (who mistakenly list 'Hariot' as the collector) with four other Monaco collections (B6-2054, B6-2055, B6-2056, B6-2057) sent by Hariot in 1906 (numbers 2, 3, 11, 13)]; **TRH B6-2058**.

[Anon.]; Irland [= Republic of Ireland]; Roundstone [Bay]; [no habitat data]; ix.1893; [no slides]; [ex] Science & Art Mus. [Dublin] [**DBN**]; [no pfa]; [Note: box marked 'B.' and '*L. fruticul. (?)*'. Apparently grouped with a McCalla collection (B6-2024) under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2059**.

[Anon.]; [Sénégal]; Cap Verd [= Cape Verde]; [no habitat data]; [no date]; [no slides]; comm.

Hariot vi.1906, number 8 [material almost certainly sent from **PC**]; [no pfa]; [Note: box marked '*L. fruticosum??*' and 'steril [= sterile]'. Adey & Lebednik 1967: 58 mistakenly list 'Hariot' as the collector and 'vi.1906' as the collection date]; **TRH B6-2042**.

[Anon.]; [Spain]; Iles Baleares [= Balaeric Islands], A 5 milles env. an S.E. de Cabrera, (bord du plateau Continental [= edge of the continental shelf]); collection depth: 131 metres; 7.vii.1905; [no slides]; comm. Pruvot-Chalon; [no pfa]; [Note: box marked 'Brudst. [= fragments]'. Adey & Lebednik 1967: 58 list 'Pruvot-Chalon' as the collector]; **TRH B6-2060**.

[Anon.]; Isle of Man; Millport; [no habitat data]; 1903; [no slides]; comm. Mrs Hannah Robertson; [no pfa]; [Note: annotation slip in box marked 'Stunted and dead specimens. Relicts from a time when this species had a more northern distribution than at present?'. Adey & Lebednik 1967: 58 mistakenly list 'H. Robertson' as the collector]; **TRH B6-2026**.

***fruticosum*, *Lithothamnion* (f. *clavulata*)** [originally described as *Lithothamnion fruticosum* f. *clavulata* (Foslie 1901b: 17), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 57-58 under species without mention of forma]. **Neotype**: **TRH**, B6-2062 (see below).

Note: Additional collections marked *Lithothamnion fruticosum* f. *clavulata* occur in Drawer B7 with collections of *Lithothamnion indicum*. Foslie (1907a: 7, 1907e: 99, 1907f: 183) transferred these collections from *L. fruticosum* to *L. indicum* but did not change the names on his box covers.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola, vor [= near] Brioni minor; [no habitat data]; 28.ix.1899; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 14; [Note: locality on box is numbered '3']. Grouped under one entry in Adey & Lebednik 1967: 58 with a collection of *Lithothamnion fruticosum* (f. *fruticulosa*) (B6-1989)]; **TRH B6-2061**.

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Val di Bora; collection depth: 18-23 metres; 7.ix.1899; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 12, and Printz 1929, pl. 13, fig. 1; [Note: **NEOTYPE** of *Lithothamnion fruticosum* f. *clavulata* Foslie. Additional data — Woelkerling 1993: 51, who mistakenly records the collection year as '1894'. Adey & Lebednik 1967: 58 mistakenly record the collection year as '1897' and the Foslie 1904d plate as '7']; **TRH B6-2062**.

- Lichtenstern; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; slide 20; ex [herb.] Bot. Mus. Vienna [W]; pfa: Foslie 1904d, pl. 1, fig. 11, and Printz 1929, pl. 13, fig. 3; [Note: box marked 'L. fascicul. Aresch.' and 'L. fruticosum'. Slide marked 'L. fascicul. (Hauck.) Aresch. = L. fruticosum f. clavulata' and 'Rovigno' and 'ex herb. Bot. Mus. Wien'. Some cell measurements pertaining to slide 20 occur with measurements from other collections on a slip of paper filed in an envelope marked 'Loose note found in Drawer B6'. Grouped with two collections of *L. fruticulosa* (f. *fruticulosa*) (B6-2022, B6-2063) and one of f. *ramulosa* (B6-2078) under one entry in Adey & Lebednik 1967: 57, who list collector as 'Franz-Lichtenstein']; **TRH B6-2063.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1907; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 13, figs 4-6; [Note: grouped under one entry in Adey & Lebednik 1967: 57 with a collection of *L. fruticulosa* (f. *fruticulosa*) (B6-2040)]; **TRH B6-2064.**
- [Anon.]; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 12-15 metres; 13.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: almost certainly collected by Kuckuck but not recorded on box. Annotation slip in box marked with collection date and with '2']; **TRH B6-2065.**
- [Anon.]; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'anth.? [= antheridia?']'. Collection not included in Adey & Lebednik 1967]; **TRH B6-2066.**

***fruticosum, Lithothamnion* (f. *confinis*).** See listing in Drawer B7. Includes lectotype

***fruticosum, Lithothamnion* (f. *crassiuscula*)** [originally described as *Lithothamnion fruticosum* f. *crassiuscula* (Foslie 1901b: 17), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 57-58 under species without mention of forma]. **Neotype: TRH, B6-2067** (see below).

Note: collections identified as *Lithothamnion fruticosum* on the box lid but as *Lithothamnion fruticosum* f. *crassiuscula* on the prepared slides are listed here under *Lithothamnion fruticosum* noting in each case when the name on the slide differs.

- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwischen [= between] Astorga u. [= and] Due Sorelle; collection depth: 30-31 metres; 4.xi.1899; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 3, fig. 15; [Note: box marked 'L. fruticosum f. crass.'. Locality on box is numbered '4)]; **TRH B6-1985.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwisch. [= between] Toronda [Island] u. [= and] Gaza [Island]; collection depth: 16-25 metres; 11.vi.1895; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 4, and Printz 1929, pl. 13, fig. 9; [Note: **Neotype** of *Lithothamnion fruticosum* f. *crassiuscula* Foslie. Additional data — Woelkerling 1993: 66. Box marked '13' before locality data. Grouped with six collections of *L. fruticosum* (B6-1998, B6-1999, B6-2000, B6-2001, B6-2002, B6-2003) and one of *L. fruticosum* f. *ramulosa* (B6-2071) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2067.**
- [Anon.]; [Italy]; Gulf of Naples; collection depth: 30-80 metres; [no date]; slides 59-60, 1630 and one unnumbered slide; [ex] Zool. St. Neapel; pfa: Foslie 1904d, pl. 1, fig. 6, and Printz 1929, pl. 13, fig. 10; [Note: box marked 'Lith. ramulosum' and 'sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Ligner L. frutic., daarlige snit! [= looks like L. frutic., not clear cuts!']'. Slide 59 marked 'L. fruticosum' and 'Neapel' and '(coll. Zool. St.)'. Slide 60 marked 'Lith. ramosissimum Reuss'. Unnumbered slide marked 'Zool. St. Neapel' and 'Koncept.? tag. = præp. And. 54-55 (samme ekspl.) [= conceptacles? taken = slides Andersson 54-55 (same specimen)]' and 'L. fruticul.?'. 'And.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Grouped

with two collections of *L. fruticosum* (f. *fruticosum*) (B6-2051, B6-2052) under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2068.**

[Anon.]; [Italy]; Gulf of Naples; collection depth: 30-80 metres; [no date]; [no slides]; [ex] Zool. St. Neapel; pfa: Printz 1929, pl. 13, fig. 7; [Note: box also marked ‘*Lith. ramulosum*’ and ‘Anth. konc. [= antheridial conceptacles]’]; **TRH B6-2069.**

***fruticosum, Lithothamnion* (f. *corymbiformis*).** See listing under **ungeri, *Lithothamnion* (f. *corymbiformis*)** in Drawer B27. Includes lectotype

***fruticosum, Lithothamnion* (f. *fastigiata*).** See listing in Drawer B25. Includes lectotype

***fruticosum, Lithothamnion* (f. *flexuosa*).** See listing in Drawer B27. Includes lectotype

***fruticosum, Lithothamnion* (f. *glomerata*).** See listing under *Lithothamnion intermedium* f. *glomerata* in Drawer B8. Includes lectotype

***fruticosum, Lithothamnion* (f. *occidentalis*).** See listing under *Lithothamnion occidentale* in Drawer B7. Includes lectotype

***fruticosum, Lithothamnion* (f. *pteridoides*).** See listing in Drawer B7. Includes lectotype and isotype material

***fruticosum, Lithothamnion* (f. *ramulosa*)** [originally described as *Lithothamnion ramulosum* (Philippi 1837: 388, as ‘*Lithothamnium*’), then (Kützing 1869: 35) transferred without change in rank into *Spongites*, and then (Foslie 1900: 13) transferred back to *Lithothamnion* but reduced to the rank of form and treated as *Lithothamnion fruticosum* f. *ramulosa*, where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 57-58 under species without mention of forma]. **Holotype:** L, 934.3-10 in part (Woelkerling 1983a: 185, who mistakenly refers to the collection as lectotype, and Woelkerling & Verheij 1995: 73).

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Bagnole [Island]; collection depth: 30-31 metres; 4.xi.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 13, figs 12, 14; [Note: figures in Printz labelled as f. *kuetzingerii*, a superfluous name for f. *ramulosa* (see Woelkerling 1993: 133). Grouped with three collections of *L. fruticosum* (f. *fruticosum*) (B6-1982, B6-1983, B6-1984) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2070.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands]; collection depth: 25-35 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘3’] before depth data. Grouped with six collections of *L. fruticosum* (B6-1998, B6-1999, B6-2000, B6-2001, B6-2002, B6-2003) and one of *L. fruticosum* f. *crassiuscula* (B6-2067) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2071.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands] bei [= near] Pola; collection depth: 20-25 metres; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘2’] before depth data, and also marked ‘Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]’]; **TRH B6-2072.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], vor [= near] Orsera; collection depth: ca 20 metres; 17.xii.1896; slide 625; [no other collection data]; [no pfa]; [Note: grouped with two collections of f. *ramulosa* (B6-2074, B6-2075) and three collections of *L. fruticulosa* (f. *fruticulosa*) (B6-1990, B6-1991, B6-1992) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2073.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], vor [= near] Orsera; collection depth: ca 20 metres; 17.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked ‘konc? [= conceptacles?’] and ‘(+ stk. [= piece] *G. Brass-fl.*)’]. Grouped with two collections

of f. *ramulosa* (B6-2073, B6-2075) and three collections of *L. fruticulosa* (f. *fruticulosa*) (B6-1990, B6-1991, B6-1992) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2074.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], vor [= near] Orsera; collection depth: ca 20 metres; 17.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with two collections of f. *ramulosa* (B6-2073, B6-2074) and three collections of *L. fruticulosa* (f. *fruticulosa*) (B6-1990, B6-1991, B6-1992) under one entry in Adey & Lebednik 1967: 57]; **TRH B6-2075.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Parenzo; collection depth: 25 metres; 11.x.1899; slide 606; [no other collection data]; [no pfa]; [Note: box marked '2' before collector name, and also marked '(maaske med unge skorper af [= maybe with young crusts of] *L. philippii*.)'. Slide marked 'Parenzo, westl. [= west of] Tondo' and '20 metres' [not 25 metres as on box lid]. Annotation slip in box marked '*L. frutic. f. ramulosa*, Adriaterhavet, præp. [= slide] 606'. Grouped with a collection of *L. fruticulosa* (f. *fruticulosa*) (B6-2011) under one entry in Adey & Lebednik 1967: 58]; **TRH B6-2076.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 24-25 metres; 24.v.1895; slide 626; [no other collection data]; pfa: Printz 1929, pl. 13, fig. 13; [Note: box marked '1' before depth data and 'Analyse nr. 14'. One annotation slip in box marked '*L. frut. f. ramulosa*, Adriaterhavet, præp. [= slide] 626'. Another annotation slip marked 'Ligner præp. 1274 [= looks like slide 1274]'. Slide 1274 belongs to a collection (B7-2093) identified as *Lithothamnion indicum*]; **TRH B6-2077.**

Lichtenstern; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; [no slides]; ex herb. Bot. Mus. Vienna [W]; pfa: Printz 1929, pl. 13, fig. 2; [Note: box marked '*Lith. fasciculatum* Aresch.' and '=*L. fruticosum*'. Grouped with two collections of *L. fruticulosa* (f. *fruticulosa*) (B6-2022, B6-2023) and one of f. *clavulata* (B6-2063) under one entry in Adey & Lebednik 1967: 57 who list collector as 'Franz-Lichtenstein']; **TRH B6-2078.**

ramulosum, Lithothamnion

See listing above for *fruticosum*, *Lithothamnion* (f. *ramulosa*)

Case B, Drawer 7

During the present study, some loose notes containing information on cell or conceptacle dimensions were found that could not be linked to any particular collection. These now have been placed in an envelope marked 'Loose notes found in Drawer B7'. In addition, a sheet containing cell measurements from a number of slides also was found and placed in the envelope. The sheet is mentioned in the Note section of entries containing the relevant slides.

***fruticosum*, *Lithothamnion* (f. *confinis*)** [originally described as *Lithothamnion fruticosum* f. *confinis* (Foslie 1904c: 4), without further explicit mention in Foslie's publications, but in his herbarium considered by Foslie to be conspecific with *Lithothamnion indicum* and so indicated on the lectotype box. Collection listed under *Lithothamnion indicum* in Adey & Lebednik 1967: 58 without reference to *Lithothamnion fruticosum* f. *confinis*]. **Lectotype:** TRH, B7-2089 (see below).

Gabriel; [Australia]; Victoria, Western Port; collection depth: 3-5 fathoms; 1899; slide 356; [no other collection data]; pfa: Foslie 1904d, pl. 1, figs 8-9, and Printz 1929, pl. 13, fig. 24; [Note: **Lectotype** of *Lithothamnion fruticosum* f. *confinis* Foslie. Additional data — Woelkerling 1993: 58, and Wilks & Woelkerling 1995: 560, 562. Collection consists of one large round box and three smaller round boxes and the slide now housed in a newer

brown box. The large box is marked 'Analyse nr. 15' and 'Koncept. [= conceptacles]' and '*L. fruticosum indicum*'. One of the smaller boxes is marked '*L. fruticosum f. crassiuscula-indicum*'. The smallest box is marked 'Sp. konc. [= sporangial conceptacles]'. Slide marked 'Western Port Bay'. Cell measurements from slide 356 as well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7'. Collection listed under *Lithothamnion indicum* in Adey & Lebednik 1967: 58 without reference to *Lithothamnion fruticosum f. confinis*; **TRH B7-2089**.

fruticosum, Lithothamnion (f. occidentalis). See listing below for ***occidentale, Lithothamnion***

fruticosum, Lithothamnion (f. pteridoides) [originally described as *Lithothamnion fruticosum f. pteridoides* (Foslie 1904b: 19), without further explicit mention in Foslie's publications, but in his herbarium considered by Foslie to be conspecific with *Lithothamnion indicum* and so indicated on the lectotype and isolectotypes. Collections listed under *Lithothamnion indicum* in Adey & Lebednik 1967: 59 without reference to *Lithothamnion fruticosum f. pteridoides*]. **Lectotype: L**, 991.239-236 (Verheij & Woelkerling 1992: 283).

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.-xii.1899; [no slides]; Siboga Expedition, station 240, collection 178; pfa: Foslie 1904b, pl. 2, fig. 2; [Note: **Lectotype fragment** of *Lithothamnion fruticosum f. pteridoides* Foslie. Additional data — Verheij & Woelkerling 1992: 283 and Woelkerling 1993: 181. Box marked '*L. fruticosum f. pteridoides indicum*'. Apparently grouped with Siboga Expedition collections 207 (B7-2111, listed just below), 219 (B7-2112, listed under *L. indicum*) and 220 (B7-2113, listed under *L. indicum*) under one entry in Adey & Lebednik 1967: 59, who only mention collection 219, and who list the collection under *Lithothamnion indicum* without reference to *Lithothamnion fruticosum f. pteridoides*]; **TRH B7-2110**.

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.-xii.1899; [no slides]; Siboga Expedition, station 240, collection 207; [no pfa]; [Note: **Isolectotype fragment** of *Lithothamnion fruticosum f. pteridoides* Foslie. Additional data — Verheij & Woelkerling 1992: 283 and Woelkerling 1993: 181. Box marked '*L. fruticosum f. pterid. indicum*' and 'Cystoc. [= cystocarpic]'. Apparently grouped with Siboga Expedition collections 178 (B7-2110), 219 (B7-2112) and 220 (B7-2113) under one entry in Adey & Lebednik 1967: 59, who only mention collection 219, and who list the collection under *Lithothamnion indicum* without reference to *Lithothamnion fruticosum f. pteridoides*]; **TRH B7-2111**.

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.-xii.1899; one slide labelled with Siboga Expedition collection number 179; Siboga Expedition, station 240, collection 179; [no pfa]; [Note: **Isolectotype (slide)** of *Lithothamnion fruticosum f. pteridoides* Foslie. Additional data — Verheij & Woelkerling 1992: 283 and Woelkerling 1993: 181. Collection consists only of one slide. Slide marked '*L. fruticosum f. pteridoides indicum*' and '(Præp. 178 smaacellet [= slide 178 small cells])' and 'S.E. 179, station 240' and 'Banda' and 'xi.-xii.1899'. 'Præp. 178' almost certainly is an error for Siboga Expedition collection 178, the lectotype of the taxon (see B7-2110 above). Slide 178 pertains to a Norwegian collection of *Lithothamnion granii* (C10-3117). Collection apparently listed under *Lithothamnion indicum* in Adey & Lebednik 1967: 59 without reference to *Lithothamnion fruticosum f. confinis*]; **TRH B7-2788**.

indicum, Lithothamnion [originally described as *Lithothamnion indicum* (Foslie 1907a: 7), where Foslie retained it in publication]. **Lectotype: TRH**, B7-2084 (see below).

Note: Some boxes, as noted in individual entries, have the names *Lithothamnion fruticosum* or *Lithothamnion fruticosum f. clavulata* without mention of *indicum*. Other boxes

have one of those names on one side and *L. indicum* on the other side. Foslie (1907a: 7, 1907e: 99, 1907f: 183) transferred these collections from *L. fruticosum* to *L. indicum* but did not change or entirely change the names on his boxes to *L. indicum*. Additional collections marked *Lithothamnion fruticosum* or *Lithothamnion fruticosum* f. *clavulata* occur in Drawer B6.

- Gabriel; Australia; [Victoria], Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticul.? indicum*' and 'Cystoc. [= cystocarpic]']; **TRH B7-2079.**
- Gabriel; Australia; [Victoria], Phillips Island, Corner Inlet; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: the locality data is confused. Phillip Island is in Westernport Bay, while Corner Inlet is a separate body of water to the east of Westernport Bay]; **TRH B7-2080.**
- [Gabriel] [but see Note]; Australia; [Victoria], Phillip Island; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen sp. [= without sporangia]'. Gabriel is presumed to be the collector because all other Australian collections of the species were gathered by Gabriel]; **TRH B7-2081.**
- Gabriel; Australia; [Victoria], Phillip Island; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'J. Gabriel (?)'. Annotation slip in box marked 'Ingen sp. [= without sporangia]']; **TRH B7-2082.**
- Gabriel; [Australia]; Victoria, Port Phillip Bay; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: three annotations slips occur in box, one marked 'Ingen sp. [= without sporangia]', the second marked 'ingen cyst. konc. [= without cystocarpic conceptacles]', and the third marked '*L. fruticul. indicum*'; **TRH B7-2083.**
- Gabriel; Australia; Victoria, rundt [= around] Phillips Island, Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; slides 444-445; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 7, and Printz 1929, pl. 13, fig. 20; [Note: **Lectotype** of *Lithothamnion indicum* Foslie. Additional data — Woelkerling 1993: 125, Wilks & Woelkerling 1995: 558, and Harvey et al. 2003: 659. Box marked '*L. indicum fruticosum* f. *crassiuscula*'. Slides 444 & 445 marked '*Lithothamnion fruticosum* (Kütz.) Fosl. f. *crassiuscula-indicum*'. Annotation slip in box contains collection depth data]; **TRH B7-2084.**
- Gabriel; Australia; [Victoria], rundt [= around] Phillips Island, Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 7-9 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tidal rush 11/2 knots'. The locality data is confused. Phillip Island is in Westernport Bay, while Corner Inlet is a separate body of water to the east of Westernport Bay. Both Corner Inlet & Westernport Bay, however, are situated east of Port Phillip Bay]; **TRH B7-2085.**
- Gabriel; Australia; [Victoria], rundt [= around] Phillips Island, Corner Inlet, øst for [= east of] Port Phillip Bay; collection depth: 2.5-4 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum indicum*' and 'Koncept. [= conceptacles]'. The locality data is confused. Phillip Island is in Westernport Bay, while Corner Inlet is a separate body of water to the east of Westernport Bay. Both Corner Inlet & Westernport Bay, however, are situated east of Port Phillip Bay]; **TRH B7-2086.**
- Gabriel; [Australia]; Victoria, Western Port; collection depth: ca 4 fathoms; 1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum indicum*'. Annotation slip inside the box marked 'Ingen sp. [= without sporangia]'. Collection includes one fragment in a small box rediscovered during the present study. Small box marked 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B7-2087.**
- Gabriel; [Australia]; Victoria, Western Port; collection depth: 3-5 fathoms; summer 1899; [no slides]; [no other collection data]; [no pfa]; [Note: collection depth data and collection date on annotation slip in box]; **TRH B7-2088.**

- Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Amirante [Bank]; collection depth: 20-25 fathoms; 11.x.1905; slide 1266; collection number E13; [no pfa]; [Note: box marked '*Lith. indicum* (?)']; **TRH B7-2090.**
- Gardiner; Cargados Carajos, Indiske hav [= Indian Ocean]; [no other locality data]; collection depth: 30 fathoms; 29.viii.1905; [no slides]; collection number B8; [no pfa]; [Note: Cargados Carajos is a dependency of Mauritius]; **TRH B7-2092.**
- Gardiner; Cargados Carajos, Indiske hav [= Indian Ocean]; [no other locality data]; collection depth: 30 fathoms; 30.viii.1905; slides 1277-1278; collection number B9; pfa: Printz 1929, pl. 13, fig. 23; [Note: Cargados Carajos is a dependency of Mauritius. Cell measurements from slide 1277 as well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7'. For slide 1278, sheet marked 'Dårligt snit [= not clear cut]']; **TRH B7-2091.**
- Gardiner; Maldiverne [= Maldives]; Addu Atoll; [no habitat data]; 1900; slide 751; comm. Gardiner; [no pfa]; [Note: box marked '~~*G. brassica-florida?*~~ *L. fruticosum* f. ? *indicum*' and 'cyst. konc. [= cystocarpic conceptacles]']; **TRH B7-2096.**
- Gardiner; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 750; comm. Gardiner; pfa: Foslie 1903c, pl. 1, fig. 2, and Printz 1929, pl. 13, fig. 25; [Note: collection consists of one large round box and a small round box housed in a newer brown box. Large round box marked '*L. indicum fruticosum* f. *crassiuscula*'. Large round box contains a small round box with one fragment and is marked 'Cyst. konc. [= cystocarpic conceptacles]'. Slide 750 is inside large round box. Cell measurements from slide 750 as well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7']; **TRH B7-2097.**
- [Gardiner]; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 758; comm. Gardiner; [no pfa]; [Note: one side of box marked '*L. indicum fruticosum* f. *clavulata*'. Other side of box marked 'cyst. konc. [= cystocarpic conceptacles] c. 550 μ ' and '*L. fruticosum* f. *clavulata*' rather than *indicum*. Grouped with B7-2099 under one entry in Adey & Lebednik 1967: 58]; **TRH B7-2098.**
- Gardiner; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; slide 810; comm. Gardiner; pfa: Foslie 1903c, pl. 1, fig. 3; [Note: box marked '*L. fruticosum* f. *indicum*'. The collection originally may have been a part of B6-2100 but was segregated out by Foslie. Cell measurements from slide 810 as well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7'. Grouped with B7-2098 under one entry in Adey & Lebednik 1967: 58]; **TRH B7-2099.**
- [Gardiner]; Maldiverne [= Maldives]; Male Atoll, Hulule; [no habitat data]; iv.1900; [no slides]; comm. Gardiner; [no pfa]; [Note: box marked '*L. fruticosum* f. *indicum*' and '(cfr. ekspl. præp. 810 [= cf. specimen slide 810])'. Collection not included in Adey & Lebednik 1967. The material in the preceding collection (B7-2099) may have been segregated out into a separate collection and used to prepare slide 810]; **TRH B7-2100.**
- [Gardiner]; Maldiverne [= Maldives]; South Nilandu; [no habitat data]; iv.1900; slide 769; comm. Gardiner; [no pfa]; [Note: annotation slip in box marked '*L. frutic. f. clavulata*' but slide marked '*L. fruticosum* f. *clavulata-indicum*']; **TRH B7-2101.**
- Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Providence [Island]; collection depth: 50-78 fathoms; ix.1905; slide 1275; collection number D4; [no pfa]; [Note: box marked '(kun delvis? [= only in part?])'. Annotation slip in box marked 'Overv. konc. i snit [= overgrown conceptacles in cut]']; **TRH B7-2094.**
- Gardiner; [Seychelles], Indiske hav [= Indian Ocean]; Providence [Island]; collection depth: 29 fathoms; x.1905; slides 1274, 1276; collection number D3; pfa: Printz 1929, pl. 13, figs 21-22; [Note: box marked 'Analyse 10' and 'pl. 13, figs 48-49-21-22'. Two of the specimens inside the box are marked respectively 'pl. 13, fig. 18' and 'pl. 13, fig. 19'. Two other specimens are marked respectively '1274' and '1276'. One annotation slip in box marked '= præp. [= slide] 1274 ingen sporer [= without spores]'. Another annotation slip with cell measurements also marked 'Større cell. end Maldiverne 810 [= larger cells than Maldives Islands 810]'. '810' refers to slide 810 in B6-2099. Cell measurements from slide 1274 as

- well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7']; **TRH B7-2093.**
- Gardiner; [Seychelles]; Indiske hav [= Indian Ocean, Providence [Island]; collection depth: 30 fathoms; 3.x.1905; [no slides]; collection B24 (= D24?); [no pfa]; [Note: box marked 'Af spritmat. [= from spirit material]']; **TRH B7-2095.**
- Gardiner; Seychellerne [= Seychelles Islands]; Indiske hav [= Indian Ocean], [no other locality data]; collection depth: 31 fathoms; x.1905; slide 1272; collection number F2; [no pfa]; [Note: box marked '*Lithoth indicum* (?)']; **TRH B7-2102.**
- Jadin; Mauritius; [no other locality data]; [no habitat data]; iv.1890; slide 510 [missing]; Jadin collection number 555b; [no pfa]; [Note: box marked '*Lithoth. indicum* (?)' and '(ikke sikre konc. [= not sure about conceptacles)']'. Adey & Lebednik 1967: 59 mistakenly list the collector as 'Jodin']; **TRH B7-2103.**
- Jousseaume; [Djibouti]; Røde hav [= Red Sea], [Gulf of Tadjoura], Djibuti + Obock; [no habitat data]; 1897; slide 29; Jousseaume collection number 2, ex herb. Bornet [PC]; [no pfa]; [Note: collection consists of two original round boxes housed inside a newer brown box. Larger round box marked '*L. frutic.? + brass.f.? indicum?*'. One annotation slip in larger round box marked 'leg. Jousseaume' and 'nr. 6 + nr. 2' and '1897'. Another annotation slip marked 'Ligner de fra Austalien [= looks like those from Australia]'. Larger round box contains two fragments in a small round box marked 'Præp. [= slide] Anderss. 29' and 'Jouss. nr. 2'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Grouped with B7-2105 under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2104.**
- Jousseaume; [Djibouti]; Røde hav [= Red Sea], [Gulf of Tadjoura], Djibuti + Obock; [no habitat data]; 1897; slide 30; Jousseaume collection number 6, ex herb. Bornet [PC]; [no pfa]; [Note: box marked '*G. brassica florida L. indicum?*'. Slide marked 'Herb. Thur. – Born.']. Grouped with B7-2104 under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2105.**
- Mouchez; [Mauritania]; Côtes des Mauritanie [= coast of Mauritania], [no other locality data]; [no habitat data]; 1876; slide 8; [ex] herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked 'a.' and '*L. racemus*" = *L. ramosiss.? indicum*'. Slide 8 marked '*L. (ramosiss.?) fruticulosum?*' and '*L. racemus*'. Grouped with B7-2107 under one entry in Adey & Lebednik 1967: 59, who list the collector as 'Monchez' and the collection locality as 'Coles des Mauritanie']; **TRH B7-2106.**
- Mouchez; [Mauritania]; Côtes des Mauritanie [= coast of Mauritania], [no other locality data]; [no habitat data]; 1876; [no slides]; ex herb. Thuret - Bornet [PC]; [no pfa]; [Note: box marked 'b.' and '*L. fruticulosum?* (Kütz.)' and '*L. indicum?*'. Grouped with B7-2106 under one entry in Adey & Lebednik 1967: 59, who list the collector as 'Monchez' and the collection locality as 'Coles des Mauritanie']; **TRH B7-2107.**
- Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], mell. [= between] Koh Mesan og [= and] Cape Liant; collection depth: 9 fathoms; 4.ii.1900; slide 510; Den danske Siamexpedition 1899-1900 [= Danish Expedition to Siam (1899-1900)]; [no pfa]; [Note: box marked '*L. indicum* (?)'. Slide marked '*Lithophyllum racemus* (Lam.) Fosl. *indicum?*'. Annotation slip in box with collection data also marked 'Museum botanicum Hauniense' [an old Latin name for the Botanical Museum of Copenhagen] and 'no. II delvis [= in part]' and '*Lithophyllum racemus* (Lam.) Fosl. f. *crassa* (Phil.) Fosl.' and 'legit: J. Schmidt, determ: M.F.'. Grouped with the type of *Lithothamnion indicum* f. *subtilis* (B6-2108) under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2109.**
- [Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.-xii.1899; [no slides]; Siboga Expedition, station 240, collection 219; [no pfa]; [Note: box marked '*L. fruticulosum?* *indicum*'. Grouped with Siboga Expedition collections 178 (B7-2110, now listed under *Lithothamnion fruticulosum* f. *pteridoides*), 207 (B7-2111, now listed under *Lithothamnion fruticulosum* f. *pteridoides*) and 220 (B7-2113) under one entry in Adey & Lebednik 1967: 59, who only mention collection 219, and who list the collection under

Lithothamnion indicum without reference to *Lithothamnion fruticosum* f. *pteridoides*]; **TRH B7-2112.**

- [Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.-xii.1899; one slide labelled with Siboga Expedition collection number 220; Siboga Expedition, station 240, collection 220; [no pfa]; [Note: box marked '*L. fruticosum indicum*'. Grouped with Siboga Expedition collections 178 (B7-2110, now listed under *Lithothamnion fruticosum* f. *pteridoides*), 207 (B7-2111, now listed under *Lithothamnion fruticosum* f. *pteridoides*) and 219 (B7-2112) under one entry in Adey & Lebednik 1967: 59, who only mention collection 219, and who list the collection under *Lithothamnion indicum* without reference to *Lithothamnion fruticosum* f. *pteridoides*]; **TRH B7-2113.**
- [Weber-van Bosse]; [Indonesia]; Biaru Island, North Bay; [no habitat data]; 17.-18.vii.1899; one slide labelled with Siboga Expedition collection number 1120; Siboga Expedition, station 123, collection 1120; [no pfa]; [Note: box marked '*L. fruticosum indicum*' on one side and '*L. fruticosum*' on the other side]; **TRH B7-2114.**
- [Weber-van Bosse]; [Indonesia]; Dammer Island, Kulewatti (Sollot) Bay; [no habitat data]; 9.-11.i.1900; one slide labelled with Siboga Expedition collection number 661; Siboga Expedition, station 277, collection 661; [no pfa]; [Note: box marked '*Lith. fruticosum indicum* forma'. Cell measurements from slide '661' as well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7']; **TRH B7-2115.**
- [Weber-van Bosse]; [Indonesia]; Kei Island, Tual [anchorage]; [no habitat data]; 11.xii.1899; one slide labelled with Siboga Expedition collection number 676; Siboga Expedition, station 258, collection 676; [no pfa]; [Note: box marked '*L. fruticosum?* *indicum*' and 'anth.? [= antheridia?']; **TRH B7-2116.**
- [Weber-van Bosse]; [Indonesia]; Kur Island; [no habitat data]; 6.-7.xii.1899; one slide labelled with Siboga Expedition collection number 1007; Siboga Expedition, station 250, collection 1007; [no pfa]; [Note: box marked '*L. fruticosum* f. *clavulata indicum*']; **TRH B7-2117.**
- [Weber-van Bosse]; [Indonesia]; south coast Rotti Island, Boeka or Cyrus Bay; [no habitat data]; 27.i.1900; one slide labelled with Siboga Expedition collection number 1081; Siboga Expedition, station 299, collection 1081; [no pfa]; [Note: box marked '*L. fruticosum indicum* forma?']; **TRH B7-2118.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pulu Tongkil; [no habitat data]; 5.-6.vii.1899; [no slides]; Siboga Expedition, station 109, collection 814; pfa: Printz 1929, pl. 13, fig. 26; [Note: one side of box marked '*L. fruticosum* (f. *clavulata*) *indicum*'. Other side of box marked '*L. fruticosum* (f. *clavulata*)'. One side of box also marked 'præp. [= slide]' but no slide is present with collection. Apparently grouped with B7-2123 under one entry in Adey & Lebednik 1967: 59, who omit mention of 'Siboga Expedition collection number']; **TRH B7-2122.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pulu Tongkil; [no habitat data]; 5.-6.vii.1899; one slide labelled with Siboga Expedition collection number 825; Siboga Expedition, station 109, collection 825; pfa: Foslie 1904b, pl. 2, fig. 6; [Note: box marked '*L. fruticosum* f. *clavulata indicum*' on one side and '*L. fruticosum* f. *clavulata*' on the other side'. Slide marked '*L. fruticosum* forma *indicum*'. Apparently grouped with B7-2122 under one entry in Adey & Lebednik 1967: 59, who omit mention of 'Siboga Expedition collection number']; **TRH B7-2123.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Tawi-Tawi Islands, Pulu Sanguisiapo; [no habitat data]; 25.vi.1899; one slide labelled with Siboga Expedition collection number 1024; Siboga Expedition, station 93, collection 1024; [no pfa]; [Note: box marked '*L. fruticosum indicum*'. Grouped with B7-2120 and B7-2121) under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2119.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Tawi-Tawi Islands, Pulu Sanguisiapo; [no habitat data]; 25.vi.1899; [no slides]; Siboga Expedition, station 93, collection 1030; [no pfa]; [Note: box marked '*L. fruticosum indicum*' on one side and '*L. fruticosum*' on the other side. Top side of box also lists both collections 1030 and 1020. Collection 1020 is in

- B7-2121. Grouped with B7-2119 and B7-2121 under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2120.**
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Tawi-Tawi Islands, Pulu Sanguisiapo; [no habitat data]; 25.vi.1899; one slide labelled with Siboga Expedition collection number 1020; Siboga Expedition, station 93, collection 1020; [no pfa]; [Note: box marked '*L. fruticosum indicum*'. Annotation slip in box marked 'Smaa cell. [= small cells]'. Grouped with B7-2119 and B7-2120 under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2121.**
- [Weber-van Bosse]; [Indonesia]; Tana Djampeah, Kamaragi Bay; [no habitat data]; 4.-5.v.1899; one slide labelled with Siboga Expedition collection number 531; Siboga Expedition, station 64, collection 531 'delvis [= in part]'; pfa: Foslie 1904b, pl. 2, fig. 4; [Note: box marked '*Lith. fruticosum f. pteridoides indicum*']; **TRH B7-2124.**
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15.-17.i.1900; one slide labelled with Siboga Expedition collection number 605; Siboga Expedition, station 282, collection 605; [no pfa]; [Note: box marked 'Nusa Besi - Timor' and '*L. fruticosum indicum* forma'. Precise locality data taken from Weber 1902, *Liste des Stations*, p. 15. Cell measurements from slide '605' as well as a number of other slides occur on a sheet in the envelope marked 'Loose notes found in Drawer B7']; **TRH B7-2125.**
- [Weber-van Bosse]; [Indonesia]; Waigeu Island, Piapis Bay (Telok Sapira); [no habitat data]; 14.viii.1899; one slide labelled with Siboga Expedition collection number 994; Siboga Expedition, station 155, collection 994; [no pfa]; [Note: box marked '*L. fruticosum indicum*' on one side and '*L. fruticosum*' on the other side. Slide marked '*L. fruticosum* forma *indicum*']; **TRH B7-2126.**
- [Anon.]; Caroline Islands; [no other locality data]; [no habitat data]; [no date]; slide 855; [ex] Bot. Mus. Hamburg [**HBG**], comm. Reinbold; [no pfa]; [Note: box marked '*G. mamillosum*' and '*L. indicum* f.?' and '(Ekspl. return. [= specimen returned])'. Annotation slip in box marked '(E) rettet Bot. Mus. Hbg. [= not corrected Bot. Mus. Hamburg]'. Box and slide also marked 'Pacific'. Grouped with B7-2128 under one entry in Adey & Lebednik 1967: 59, who mistakenly list 'Reinbold' as the collector and '1901' as the collection date]; **TRH B7-2127.**
- [Anon.]; Samoa [= Samoa Islands]; [no other locality data]; [no habitat data]; [no date]; slide 590; ex Bot. Mus. Hamburg [**HBG**], [no other collection data]; [no pfa]; [Note: box marked '*Lith. brachycladum forma indicum*'. Grouped with B7-2127 under one entry in Adey & Lebednik 1967: 59, who mistakenly list 'Reinbold' as the collector and '1901' as the collection date and who omit mention of 'Samoa' as the collection locality. The Samoa Islands include the nation of Samoa and American Samoa (a dependency of the United States)]; **TRH B7-2128.**

indicum, Lithothamnion (f. subtilis) [originally described as *Lithothamnion indicum* f. *subtilis* (Foslie 1907a: 7), and retained by Foslie in that genus in subsequent publications. Collection listed in Adey & Lebednik 1967: 59 under species without mention of forma].
Lectotype: TRH, B7-2108 (see below).

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], mell. [= between] Koh Mesan og [= and] Cape Liant; collection depth: 9 fathoms; 4.ii.1900 [incorrectly date 4.ii.1800 on box]; slide 461; ex Bot. Mus. Kbhavn [**C**]; pfa: Foslie 1904d, pl. 1, figs 16-17, and Printz 1929, pl. 13, figs 27-28; [Note: **Lectotype** of *Lithothamnion indicum* f. *subtilis* Foslie. Additional data — Woelkerling 1993: 217, who explains the relationship between the names *Lithothamnion fruticosum* (Kütz.) Fosl. f. *clavulata* and *L. indicum* f. *subtilis*. Box marked '*L. fruticosum indicum f. clavulata*'. Slide marked '*Lithothamnion fruticosum* (Kütz.) Fosl. f. *clavulata*' and '4.ii.1900' and 'no. II delvis [= in part]'. Annotation slip (partly printed) in box marked 'Museum botanicum Hauniense' [an old Latin name for the Botanical Museum of Copenhagen] and 'no. II delvis [= in part] (II a)' and '*Lithothamnion*

fruticulosum (Kütz.) Fosl.' and 'Determ: M.F.' and 'Den danske Siamexpedition 1899-1900 [= Danish Expedition to Siam (1899-1900)]'. Grouped with a collection of *Lithothamnion indicum* (f. *indicum*) (B6-2109) under one entry in Adey & Lebednik 1967: 59]; **TRH B7-2108.**

occidentale, *Lithothamnion* [originally described as *Lithothamnion fruticosus* f. *occidentalis* (Foslie 1906b: 12) but subsequently (Foslie 1908f: 3) raised to the rank of species, namely *Lithothamnion occidentale*]. **Lectotype: TRH, B7-2129** (see below).

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor [= outside] Crux Bay; [no habitat data]; 6.iii.1906; slide 1228; Børgesen collection number 1826; pfa: Printz 1929, pl. 13, figs 15, 17; [Note: **Lectotype** of *Lithothamnion fruticosus* f. *occidentalis* Foslie. Additional data — Woelkerling 1993: 161. Box marked '*Lithothamnion fruticosum* f. *occidentalis*'. Box also marked 'steril [=sterile]'. Grouped under one entry in Adey & Lebednik 1967: 59 with B7-2130 and two collections of *Lithothamnion occidentale* f. *effusa* (B7-2140, B7-2141). Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slide and any annotation slips present was not accessible]; **TRH B7-2129.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, American Hill over [= by] Whistling Island; collection depth: ca 15 fathoms; 21.iii.1906; slides 1237-1239 [1239 missing]; Børgesen collection number 2072 [in part, see Note]; pfa: Printz 1929, pl. 13, fig. 16; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box marked '*L. fruticosum* f. *occidentale*' and 'Maaske nogle tilhører *L. solutum* [= maybe some belongs to *L. solutum*']. Larger round box contains fragments in a small round box marked 'pl. 13, fig 16'. Grouped under one entry in Adey & Lebednik 1967: 59 with the lectotype of *Lithothamnion occidentale* (B7-2129) and two collections of *Lithothamnion occidentale* f. *effusa* (B7-2140, B7-2141)]; **TRH B7-2130.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Crux Bay; collection depth: ca 10 fathoms; 1905-1906; [no slides]; Børgesen collection number 2095; [no pfa]; [Note: box marked '*L. fruticosum* f. *occidentale*' and 'sp. konc. [= sporangial conceptacles]'. Grouped with B6-2132 (also numbered 2095) under one entry in Adey & Lebednik 1967: 59. Collection B7-2134 also is marked with Børgesen collection number 2095]; **TRH B7-2131.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Crux Bay; [no habitat data]; [no date]; [no slides]; Børgesen collection number 2095 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. fruticosum* f. *occidentalis*'. Grouped with B6-2131 (also numbered 2095) under one entry in Adey & Lebednik 1967: 59. Collection B7-2134 also is marked with Børgesen collection number 2095]; **TRH B7-2132.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, Crux Bay; collection depth: ca 10 fathoms; 9.iii.1906; slide 1231; Børgesen collection number 2095 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. fruticosum* f. *occidentale*' and 'Anth.? [= antheridia?']. Annotation slip in box marked '*G. mamill.?*'. Collections B7-2131 & B7-2132 also are marked with Børgesen collection number 2095]; **TRH B7-2134.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor [= outside] Crux Bay; [no habitat data]; 29.iii.1906; slide 1232; Børgesen collection number 2221; [no pfa]; [Note: box marked '*L. occidentale* eller [= or] *L. solutum?* s. m. [= mixed with] *L. syntrophicum* f. *ruptilis?*']; **TRH B7-2136.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; [St. Jan], udfor [= outside] Crux Bay; [no habitat data]; 1905-1906; slide 1223; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticosum* f. *occidentale*'. Adey &

Lebednik 1967: 59 mistakenly associated this slide with Børgesen collection 2095]; **TRH B7-2133.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor, landfogedboligen [= outside the landbailiff house]; [no habitat data]; 1905-1906; slides 1212-1213; Børgesen collection number 1727; [no pfa]; [Note: box marked '*L. fruticulosum* f. *occidentale* delvis [= in part]?' and 'Præp. 1212 mindste, konc. - delvis *syntroph. f. ruptilis?* [= slide 1212 smallest, conceptacles - in part *syntroph. f. ruptilis?*]' and 'Præp. 1213 næstm. - delvis *syntroph. f. ruptilis?* [= slide 1213 second smallest - in part *syntroph. f. ruptilis?*']]; **TRH B7-2137.**

Mortensen; Vestindien [as used by Børgesen, who sent the specimen to Foslie, Vestindien = Danish West Indies, now the U.S. Virgin Islands]; mellem [= between] St. Thomas and St. Jan; collection depth: 15-20 fathoms; [no date]; slide 1214; comm. Børgesen 1906; [no pfa]; [Note: box marked '*L. fruticulosum* *occidentale* (delvis [= in part])'. Adey & Lebednik 1967: 59 mistakenly list 'Børgesen' as the collector and 'St. Thomas' as the collection locality]; **TRH B7-2138.**

occidentale, *Lithothamnion* (f. *effusa*) [originally described as *Lithothamnion solutum* f. *effusa* (Foslie 1906b: 14) but subsequently (Foslie 1908f: 3) transferred without change in rank into *Lithothamnion occidentale*, as *L. occidentale* f. *effusa*. Collections listed in Adey & Lebednik 1967: 59 under species without mention of forma]. **Lectotype: TRH, B7-2140** (see below).

Bock; St. Domingo [= Dominican Republic]; Monte Christi, P. Plata [= Puerto Plata]; [no habitat data]; xii.1894; slide 678; ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked '*L. australe* f. *americana?* *occidentale* f. *effusa*'. Slide marked '*L. australe* f. *americana?* *solutum* f. *effusa*'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH B7-2139.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor [= outside] American Hill; collection depth: ca 8 fathoms; iii.1906; slides 1241-1242; Børgesen collection number 2003; pfa: Printz 1929, pl. 13, fig. 18; [Note: **Lectotype** of *Lithothamnion solutum* f. *effusa* Foslie. Additional data — Woelkerling 1993: 82 and Woelkerling 1998c: 362, who mistakenly lists the slides as 1224-1225 and 1252. Collection consists of three original round boxes housed in a newer brown protective box. Largest round box contains specimens/fragments, slides 1241 (unmarked) and 1242 (marked '*Lithoth. solutum* f. *effusa*') and two fragments in a small round box marked 'pl. 13, f. 18'. Lid of largest box marked with collection data and with '*L. fruticulosum* f. *occidentale*' and 'Sp. konc. 3 ekspl. 400-500 μ [= sporangial conceptacles 3 specimens 400-500 μ .'. Green tags on two specimens inside largest box marked 'Sp. konc. [= sporangial conceptacles]' and 'Præp. [= slide] 1241'. Third box contains specimens/fragments and is marked with collection information and also marked '*L. occidentale* f. *effusa?*' and 'Præp. [= slide] 1242'. Green tags on two specimens in third box marked 'Sp. konc. [= sporangial conceptacles]' and green tag on a third specimen/fragment is marked 'Præp. [= slide] 1242'. Grouped under one entry in Adey & Lebednik 1967: 59 with B7-2141 and with two collections of *Lithothamnion occidentale* (f. *occidentale*) (B7-2129, B7-2130)]; **TRH B7-2140.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, American Hill over [= by] Whistling Island; collection depth: ca 15 fathoms; 21.iii.1906; slide 1240; Børgesen collection number 2072 [in part]; [no pfa]; [Note: box marked '*L. solutum* *occidentale* f. *effusa?*' and 'Steril [= sterile]'. Grouped under one entry in Adey & Lebednik 1967: 59 with B7-2140 and with two collections of *Lithothamnion occidentale* (f. *occidentale*) (B7-2129, B7-2130)]; **TRH B7-2141.**

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfor [= outside] Crux Bay; [no habitat data]; 9.iii.1906; slides 1233-1234; Børgesen collection number 1917; [no pfa]; [Note: box marked '*L. fruticulosum* f. *occi-*

dentale?) og [= and] *L. solutum* f. *effusa?* af mindste [= of smallest] and 'Præp. 1233 gj. gr. aaben toppen [= slide 1233 through open top branch]' and 'Præp. 1234 gj. gr. hel [= slide 1234 through whole branch]' and 'konc. [= conceptacles] 240-400 μ ']; **TRH B7-2135.**

solutum, Lithothamnion (f. effusa). See listing above for ***occidentale, Lithothamnion (f. effusa)***

Case B, Drawer 8

fruticulosum, Lithothamnion (f. glomerata). See listing below for ***intermedium, Lithothamnion (f. glomerata)***

intermedium, Lithothamnion [originally described as *Lithophyllum intermedium* (Foslie 1906b: 23), where Foslie retained it in publication]. **Lectotype:** TRH, B8-2142 (see below).

Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms; 25.viii.1882; slides 175-176; [no other collection data]; pfa: Kjellman 1883, pl. 4, fig. 2, and Printz 1929, pl. 22, fig. 1; [Note: **Lectotype** of *Lithothamnion intermedium* Foslie. Additional data — Woelkerling 1993: 129. Collection consists of two original round boxes, two slides, and two annotation slips now housed in a newer brown box. Larger original box contains one fragment in a small original box marked 'Sp. konc. [= sporangial conceptacles]'. Slides marked with locality data and with '*L. ungeri* f. *intermedium*'. Collection depth given as 'ca. 20 fathoms' on larger round box lid but as '20-25 fathoms' on one annotation slip in larger round box. Another annotation slip in larger round box marked '4 delte sp. [= 4-parted sporangia]']; **TRH B8-2142.**

Foslie; [Norway]; Kragerø; [no habitat data]; [no date]; slide d; [no other collection data]; [no pfa]; [Note: collection consists of four specimens, a small unmarked original box with two fragments, three annotation slips and slide d housed in a newer brown box. Original box housing collection no longer present. One annotation slip marked '*Lithothamn. intermedium* Kjellm.' and 'Præp. [= slide] d' and 'Kragerø'. Second annotation slip marked '*interm.?*' and 'Konc. flerporede [= conceptacles several-pored] 400-500 μ ' and '*fornic.?*' and '4 delte sp. [= 4-parted sporangia] 110x55'. Third annotation slip marked 'Obs. lille stk. med konc. ca. 400 μ , vistnok af ekspl. fra Vadsø af Kjellm. best. som *interm.* [= observed small piece with conceptacles ca 400 μ , perhaps like Kjellm. specimen from Vadsø identified as *interm.*']. Slide d marked '*Lithothamnion intermedium* Kjellm.' and 'Kragerø' and '(middelsk. saml.)' [meaning uncertain] and 'M. Foslie'. Collection not included in Adey & Lebednik 1967]; **TRH B8-2149.**

Foslie; [Norway]; Tromsø; [no habitat data]; 3.viii.1886; slide 6 [missing]; [no other collection data]; [no pfa]; [Note: collection consists two original round boxes now housed in a newer brown box. Larger round box marked '*L. intermedium?*.' and '4 delte sp. [= 4-parted sporangia]'. Larger round box contains two small fragments in a small, round, unmarked box]; **TRH B8-2143.**

Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of the original box lid (remainder of box no longer present) and contents of original box housed in a newer brown box. Original box lid marked '*L. obtusatum*' and 'Drøbak, 12.vii.1893' and 'Delvis [= in part] *interm.* (og [= and] *collicul.*)'. '*L. obtusatum*' apparently is an unpublished herbarium name and has not been formally described. Annotation slip with measurements also marked 'flerporede konc. [= several pored conceptacles] 200-300-400 μ ' and 'ca 40 porer [= pores]' and '9.1905'. An-

other annotation slip marked 'Drøbak, 12/7 93' and 'Gran'. Adey & Lebednik 1967: 60 omit mention of collector]; **TRH B8-2144.**

[Anon.]; [Norway]; Finnmarken, Mehavn [now Finnmark, Mehamn], østsiden [= east side]; collection depth: 5-8 fathoms; 20.vii.1889; slide a; [no other collection data]; pfa: Printz 1929, pl. 27, fig. 3; [Note: box marked '4 delte sp. [= 4-parted sporangia]' and 'afk. præp. a [= decalcified slide a]'. Slide a marked '*L. fruticul. f. intermedia*'. Collection also includes a fragment in a small box marked 'Mehavn 1889' and '*L. intermedium*' and 'sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B8-2145.**

[Anon.]; [Norway]; [Finnmark], Kistrand; [no habitat data]; 1893; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 22, fig. 4; [no notes]; **TRH B8-2146.**

[Anon.]; [Norway]; Kvalsund; [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen, fragments in a small unmarked original box and two notes now housed in a newer brown box. Original box housing collection no longer present. One note marked with date and locality. Other note marked 'Konc. [= conceptacles] 300-400-500']; **TRH B8-2147.**

[Anon.]; [Norway]; Melkøen [now Melkøy] ved [= near] Hammerfest; [no habitat data]; vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of the original box lid (remainder of box no longer present), two specimens, a small unmarked box with two fragments, and one annotation slip now housed in a newer brown box. Original box lid marked with collection data and also marked '*L. ungeri interm.?*'. Annotation slip marked 'Konc. [= conceptacles] 200-300µ'; **TRH B8-2148.**

[Anon.]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'enporede konc. [= uniporate conceptacles]']; **TRH B8-2150.**

[Anon.]; [Norway]; Vadsø; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 59 but not found during present study]; **TRH B8-2151.**

[Anon.]; [Norway]; Vardø; [no habitat data]; 1.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of seven specimens (one with a small green tag marked '4b'), a small unmarked original box with one fragment, and two annotation slips housed in a newer brown box. Original box housing entire collection no longer present. One slip marked 'Vardø' and '1.viii.1882 og [= and] viii.1882' and '*L. interm. ialf. delvis* [= at least partly]'. Second slip marked 'Vardø' and '1.viii.1882']; **TRH B8-2152.**

Foslie; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one large specimen with an attached green tag marked '6'. Box marked '*L. intermedium*' and 'M. Foslie'. Collection rediscovered during present study. Collection not included in Adey & Lebednik 1967]; **TRH B8-3876.**

intermedium, Lithothamnion (f. glomerata) [originally described as *Lithothamnion fruticosum* f. *glomerata* (Foslie 1895a: 46) but subsequently (Foslie 1898b: 5) transferred without change in rank into *Lithothamnion ungeri*, as *L. ungeri* f. *glomerata* and then (Foslie 1905c: 37) into *Lithothamnion intermedium*, as *L. intermedium* f. *glomerata*. Collections listed in Adey & Lebednik 1967: 59 under species without mention of forma]. **Lectotype:** TRH, B8-2153 (see below).

[Anon.]; [Norway]; Lyngø [now Lyngøya] ved [= near] Tromsø; [no habitat data]; 12.vi.1892; slides 160-161 and slide o; [no other collection data]; pfa: Foslie 1895a, pl. 4, fig. 3, and Printz 1929, pl. 22, fig. 5; [Note: **Lectotype** of *Lithothamnion fruticosum* f. *glomerata* Foslie. Additional data — Woelkerling 1993: 108. Box marked 'Sp. 4 delte [= sporangia 4-parted] 140x45'. Slide o marked '12.vi.1892' and '*L. interm. f. glomerata*'. Both slides marked '*L. ungeri* f. *glomerata*'; **TRH B8-2153.**

[Anon.]; [Norway]; Vardø havn [= harbour], munding [= mouth]; [no habitat data]; 1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithothamnion fruticosum* f. *glomerata* Foslie'. Annotation slip in box with locality and date data also marked '*Lithothamnion fruticosum* f. *glomerata* Fosl.' and 'Lith. p. 18' and '6'. 'Lith. p. 18' is a reference to the protologue in the independently paginated offprint of Foslie 1895a]; **TRH B8-2154.**

intermedium, *Lithothamnion* (f. *nana*) [originally described as *Lithothamnion intermedium* f. *nana* (Foslie 1891a: 41) but subsequently (Foslie 1895a: 46) transferred without change in rank into *Lithothamnion fruticosum*, as *L. fruticosum* f. *nana* and then (Foslie 1898b: 5) transferred without change in rank into *Lithothamnion ungeri*, as *L. ungeri* f. *nana*. In his herbarium, Foslie kept f. *nana* with collections of *Lithothamnion intermedium*. Collection listed in Adey & Lebednik 1967: 59 under *Lithothamnion intermedium* without mention of forma]. **Holotype: TRH, B8-2155** (see below).

Note: Woelkerling (1993: 156) incorrectly interpreted *Lithothamnion ungeri* f. *nana* as a nomen nudum. Foslie (1898b: 4-5), without explanation at the time, transferred all forms earlier (Foslie 1895a: 46) placed in *L. fruticosum* into *L. ungeri* and (Foslie 1898b: 6, under *L. fruticosum*) and excluded his 1895 concept of *fruticosum* from that species.

[Foslie]; [Norway]; [Kvænangen], Skorpen [now Skorpa]; collection depth: 3-5 fathoms; 8.ix.1890; one slide numbered 6 [not the same as the slides numbered 6 in B5-1901]; [no other collection data]; [no pfa marked on box, but see Note]; [Note: **Holotype** of *Lithothamnion intermedium* f. *nana* Foslie. Additional data — Woelkerling 1993: 155. Data on collector and collection depth taken from protologue (Foslie 1891a: 41). Holotype element includes individuals in three original boxes now housed within a newer brown box. Holotype includes 14 of the 16 individuals shown in the protologue photo (Foslie 1891a, pl. 3, fig. 5) (see Woelkerling 1993: 155). One original box marked 'Skorpen [now Skorpa]' and 'nr. 2' and '8.ix.1890' and '(*L. norveg. f. globulata*)' and '(hvorvidt ogsaa [= whether also] *L. interm. f. nana*)' and '(*L. pun.....*)' and '= præp. [= slide] 6'. Second original box, containing slide 6, marked 'Skorpen [now Skorpa]' and '8.ix.1890' and 'blandt [= among] *L. interm. f. nana*'. Slide 6 marked 'Skorpen [now Skorpa]' and '8.ix.1890' and 'præp. [= slide] 6' and '*L. pusillum apicul. f. patula*'. A note in this box is marked 'enporede koncept. [= uniporate conceptacles]' and 'ix.1905'. Third original box marked 'Skorpen [now Skorpa]' and '8.ix.1890' and '*L. interm. f. nana*' and 'Præp. [= slide] 6' and '*L. pusillum*' and 'slebne ekspl. koncept. (ej)' [= sharp-edged specimen with conceptacles (not)]. Collection grouped with the type of *Lithothamnion norvegicum* f. *globulata* (B8-2156) under one entry in Adey & Lebednik 1967: 59, without mention of Foslie as the collector or that type material was involved]; **TRH B8-2155.**

norvegicum, *Lithothamnion* (f. *globulata*) [originally described as *Lithothamnion norvegicum* f. *globulata* (Foslie 1891a: 42) but subsequently (Foslie 1895a: 82), the epithet *globulata* was needlessly changed to *patula* when the forma was transferred without change in rank from *Lithothamnion norvegicum* to *L. apiculatum*. The epithet *patula* is superfluous and the epithet *globulata* should have been retained. For unknown reasons, the one collection of f. *globulata* was found filed with collections of *Lithothamnion intermedium* in Foslie's herbarium. Additional collections of *Lithothamnion norvegicum* are in Drawer C3. Collection listed in Adey & Lebednik 1967: 59 under species without mention of forma]. **Holotype: TRH, B8-2156** (see below).

Foslie; [Norway]; [Kvænangen], Skorpen [now Skorpa]; collection depth: 3-5 fathoms; 8.ix.1890; [no slides]; [no other collection data]; pfa: Foslie 1891a, pl. 3, fig. 7; [Note: **Holotype** of *Lithothamnion norvegicum* f. *globulata* Foslie. Additional data — Woelkerling 1993: 107. Data on collector and collection depth taken from protologue (Foslie 1891a:

42). Box marked 'Maaske [= maybe] *L. interm.* f.?'. Annotation slip in box marked 'Ikke fundet konc. [= no conceptacles found]' and 'ix.1905'. Grouped as one entry under *Lithothamnion intermedium* with the type of *Lithothamnion intermedium* f. *nana* (B8-2155) in Adey & Lebednik 1967: 59, without mention of Foslie as the collector or that type material was involved]; **TRH B8-2156**.

Inadequately documented collections

The following four inadequately documented collections were found in Drawer B8 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of three large specimens housed in an open box. Box marked '*Goniolithon*'. Collection not included in Adey & Lebednik 1967]; **TRH B8-3853**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of three large specimens and one annotation slip housed in a wooden cigar box. Annotation slip marked 'Dels [= partly] *L. interm.* dels [= partly] *L. collic.* f. *pusilla* eller [= or] *L. toph.* f.?'. Collection not included in Adey & Lebednik 1967]; **TRH B8-3854**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of several specimens now housed in a newer brown box. Collection not included in Adey & Lebednik 1967]; **TRH B8-3855**.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen and two annotation slips now housed in a newer brown box. Annotation slip from W. Woelkerling marked 'Specimen without data, not *D. pustulatum*' and dated 'ix.2003'. Other annotation slip marked 'Konc. enporede [= conceptacles uniporate] 300-400 μ ' and '9.1905'. Collection not included in Adey & Lebednik 1967]; **TRH B8-3856**.

Case B, Drawer 9

During the present study, some loose notes containing information on cell or conceptacle dimensions were found in Drawer B9 that could not be linked to any particular collection. These now have been placed in an unnumbered envelope labelled 'Loose notes found in Drawer B9'. One glass slide lacking sufficient information to allow identification also was found. This has been placed in a box labelled 'Loose slide found in Drawer B9'. Several photos also were found but could not be linked to any one collection. These have been placed in an envelope labelled 'Loose photographs found in Drawer B9'.

botrytoides, *Lithothamnion*. See listing below for ***glaciale, Lithothamnion (f. botrytoides)***

colliculosum, Lithothamnion (f. laxa) [originally described as *Lithothamnion colliculosum* f. *laxa* (Foslie 1895a: 103) and in publication subsequently retained by Foslie in that genus and species, but filed with collections of *Lithothamnion glaciale* in his herbarium. Other collections of *Lithothamnion colliculosum* are in Drawer B20]. **Holotype:** TRH, B9-2157 (see below).

Collins, F.S.; [United States]; Massachusetts, Rockport; on rocky shore; [no date]; slide 143 and two unnumbered slides; Collins number D; pfa: Foslie 1895a, pl. 17, fig. 11 [indicated

on slide 143]; [Note: **Holotype** of *Lithothamnion colliculosum* f. *laxa* Foslie. Additional data — Woelkerling 1993: 136. Slide marked '*L. colliculosum* f. *laxa glaciale*'. One unnumbered slide marked 'sporangia'. Collection listed in Adey & Lebednik 1967: 61 under *Lithothamnion glaciale*, in accord with final placement by Foslie]; **TRH B9-2157**.

delapsum, *Lithothamnion* (f. *conglutinata*). See listing below for ***glaciale, Lithothamnion* (f. *botrytoides*)**

flabellatum, *Lithothamnion* [originally described as *Lithothamnion flabellatum* (Rosenvinge 1893: 772). At first recognized as a distinct species by Foslie (1895a: 98), but subsequently (Foslie 1900i: 11) reduced to the rank of form and treated as *Lithothamnion glaciale* f. *flabellata*, then (Foslie 1905c: 51) transferred without change in rank into *Lithothamnion tophiforme* as *L. tophiforme* f. *flabellata*, and finally (Foslie 1908d: 15) treated as a heterotypic synonym of *L. glaciale*. Collections listed in Adey & Lebednik 1967: 60 under *Lithothamnion glaciale*, in accord with final placement by Foslie. One additional collection labelled *L. tophiforme* f. *flabellata* is in Drawer C11]. **Type**: apparently not designated (Woelkerling 1993: 93). **TRH** has one syntype (B9-2158).

Hartz; [Greenland]; Østgrønland [= East Greenland], [Denmark Island], Hekla Havn; collection depth: 10 fathoms; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glac.* f. *flabellata*'. Annotation slip in box marked 'Hos de fleste konc. porerne samlet i midten [= most of the conceptacles have pores gathered in the middle]']; **TRH B9-2176**.

Hartz; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], Hekla Havn; collection depth: 10 fathoms; iii.1892; slide 182; collection number 21; [no pfa]; [Note: box marked '*L. glac.* f. *flabellata* (*L. flabell.* f. *rosenvingii*)'. Slide marked '182' and '*L. flabellatum* f. *rosenvingii*' and 'nr. 21'. *Lithothamnion flabellatum* f. *rosenvingii* is a superfluous name for *L. flabellatum* f. *flabellatum* (see Woelkerling 1993: 191). One annotation slip in box marked 'Grovere porer end *L. glaciale* [= coarser pores than *L. glaciale*']'. Second annotation slip marked 'Cell. lidt længere end hos *L. glaciale* [= cells some longer than *L. glaciale*']'. Third annotation slip marked 'Hos de fleste konc. er porerne samlet i midten [= most of the conceptacles have pores gathered in the middle]']; **TRH B9-2174**.

Rosenvinge; Grønland [= Greenland]; Nordgrønland [= North Greenland], Prøven; collection depth: 6-16 fathoms; 21.vii.1886; one unnumbered slide; Rosenvinge collection number 331; [no pfa]; [Note: **Syntype** of *Lithothamnion flabellatum* Rosenvinge. Additional data — Woelkerling 1993: 93. Box marked '*Lithothamnion flabellatum*' and '*L. glac.* f.']; **TRH B9-2158**.

[Anon.]; [Norway]; Finmarken, Sydvaranger, Kjelmø [now Finnmark, Sør-Varanger, Kjelmøya], havnen [= harbour]; collection depth: 4-6 fathoms; 3.viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* f. *flabellata* (delvis [= in part]) (og [= and] *L. investiens*?)' and also marked 'Koncept. [= conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B9-2159**.

glaciale, Lithothamnion [originally described as *Lithothamnion glaciale* (Kjellman 1883: 123), where Foslie retained it in publication. Additional collections are in Drawers B10 and B11]. **Lectotype**: **UPS**, Kjellman specimen 241 (Chamberlain & Irvine 1994b: 183). The provisional typification of Adey (1970a: 228) is not in accord with ICBN Art. 7.11 and thus cannot be accepted. The designation by Chamberlain & Irvine (1994b: 183) is definite (and thus in accord with Art. 7.11) even though reference is made to the provisional typification of Adey. Chamberlain & Irvine (1994b: 183), however, explicitly state that they have not seen the lectotype.

Bay; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Fosheims Peak in Havnfjorden [= Havnefjorden]; [no habitat data]; 3.viii.1900; [no slides]; Sverdrup's *Fram*

- Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2365; [no pfa]; [Note: box marked 'med sp. konc. [=with sporangial conceptacles]' and 'Analyse nr. 4'. Adey & Lebednik 1967: 60 omit mention of 'Bay' as the collector]; **TRH B9-2160.**
- Bay; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Fosheims Peak in Havnfjorden [= Havnefjorden]; [no habitat data]; 3.viii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2367; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Adey & Lebednik 1967: 61 omit mention of 'Bay' as the collector]; **TRH B9-2161.**
- Børgesen; Færøerne [= Faeroe Islands]; Suderø Lobra; [no habitat data]; 14.vi.1896; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B9-2162.**
- Carpenter; [Canada]; Labrador; [no habitat data]; iii.1860; slide 500; [comm.] Farlow 1900, number XXVI; [no pfa]; [Note: annotation slip in box with collection data also marked 'Herb. W. G. Farlow'. Adey & Lebednik 1967: 61 mistakenly list 'Farlow' as the collector and '1900' as the collection date]; **TRH B9-2163.**
- Collins, F.S.; [United States]; Maine, Eagle Island; in pools at dead low water; vii.1891; two unnumbered slides; Collins collection number A; [no pfa]; [Note: box marked '*L. frutic. f. fastig. L. glaciale?*'. Grouped with B9-2165 under one entry in Adey & Lebednik 1967: 61]; **TRH B9-2164.**
- Collins, F.S.; [United States]; Maine, Eagle Island; in pools at low water; vii.1891; one unnumbered slide; Collins number B; [no pfa]; [Note: box marked '*L. glaciale* (?)' but slide marked '= *L. flabellatum* f.'. Grouped with B9-2164 under one entry in Adey & Lebednik 1967: 61]; **TRH B9-2165.**
- Collins, F.S.; [United States]; Massachusetts, Rever [= Revere] Beach; on *Mytilus* shell from deep water; [no date]; slide 142; Collins number F; pfa: Foslie 1895a, pl. 17. fig. 4 [written on slide]; [Note: slide marked '*L. colliculosum f. rosea glaciale*']; **TRH B9-2166.**
- Davidsson; Island [= Iceland]; Hjalteyeri; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B9-2167.**
- Faribault; [Canada]; Nova Scotia, Halifax; [no habitat data]; [no date]; [no slides]; comm. Prof. George Dawson; [no pfa]; [no notes]; **TRH B9-2168.**
- Farlow; [United States]; Maine, Eastport; [no habitat data]; [no date]; [no slides]; ex herb. Bornet [PC]; [no pfa]; [no notes]; **TRH B9-2169.**
- Gaimard & Robert; Iceland; [no other locality data]; [no habitat data]; [collection date: see Note]; [no slides]; [ex] Herb. Paris [PC]; [no pfa]; [Note: collection date incorrectly given on box as 1875. Likely collection date is 1836, the year both collectors were in Iceland (see Lamy & Woelkerling 1998c: 202, 231). Box marked '*L. ungeri* f. *intermedia* Heydr. in "Lith. Mus. Paris" no. 45"' and '= *L. glaciale*!' and 'Brudst. af 3 ekspl. [= fragments of three specimens]'. "Lith. Mus. Paris" refers to Heydrich 1901a: 540]; **TRH B9-2170.**
- Gran; [Norway]; Bodø; [no habitat data]; viii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* delvis [= in part] f. *flab.*' and '(tidligere henf. *glac.* [= earlier referred to *glac.*)]' and 'tildels sammentrykte grene [= partly compressed branches]' and 'begge ekspl. 2 delte sp. [= both specimens 2-parted sporangia]'. Annotation slip in box marked 'Smaa sp. konc. paa største ekspl. [= small sporangial conceptacles on the largest specimen]']; **TRH B9-2171.**
- Hansen; Grønland [= Greenland]; Diskobugt [= Disko Bay], Ikamiut; [no habitat data]; 1888, [but see Note]; slide 12; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 10; [Note: box marked 'Ssp. konc. & cyst. konc. [= sporangial conceptacles & cystocarpic conceptacles]'. Collection date listed as 1888 on box lid and on slide 12 but incorrectly (see entry for Hansen in Appendix 3) listed as 21.vi.1898 on annotation slip in box. Collection includes two small boxes with conceptacle bearing fragments. Grouped with a collection of f. *botrytoides* (B9-2253) under one entry in Adey & Lebednik 1967: 60, who mistakenly give the collector as 'Hausen']; **TRH B9-2172.**

- Hartz; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], Hekla Havn; [no habitat data]; iii.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 2 delte [= sporangia 2-parted]']; **TRH B9-2173.**
- Hartz; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], vest f. [= west of] Hekla Havn; collection depth: ca 17 fathoms; 31.vii.1892; [no slides]; af [= of] 36-37' [possible collection station numbers]; [no pfa]; [Note: box marked '*L. flabellatum* f. *glaciale* f.' and 'I selskab. med *foecundum* (i anden æske) [= in company with *foecundum* (in another box)]'. Other parts of the same collection are filed under *Lithothamnion foecundum* (B2-1702) and *L. laeve* (B4-1858). Annotation slip in box marked ' "Maaske tildels *foec. paa glaciale* [= maybe in part *foec. on glaciale*] " and 'i.1900'. The date 'i.1900' almost certainly is the date on which the annotation slip was written and not the collection date because Hartz did not collect in Greenland in 1900]; **TRH B9-2175.**
- Hartz; [Greenland]; Østgrønland [= East Greenland], [Denmark Island], Hekla Havn; [no habitat data]; 18.xi.1891; [no slides]; [no other collection data]; [no pfa]; [Note: date unclearly written on box lid and lid annotated '(18.1?)'. Annotation slip in box marked 'Ngl. ikke tømte konc. [= some conceptacles not empty]' and '*glac.*'. Adey & Lebednik 1967: 60 include Scoresby Sound in the locality data, but this is not mentioned on box]; **TRH B9-2178.**
- Hartz; Grønland [= Greenland]; Egedesminde; [no habitat data]; 6.i.1890; [no slides]; Hartz collection number 890; [no pfa]; [no notes]; **TRH B9-2177.**
- Hartz; Grønland [= Greenland]; Egedesminde, Manermint; [no habitat data]; 1.vii.1890; [no slides]; Hartz collection number 887; [no pfa]; [no notes]; **TRH B9-2182.**
- Hartz; Grønland [= Greenland]; Holstensborg; [no habitat data]; 1890; [no slides]; Hartz collection number 875; [no pfa]; [no notes]; **TRH B9-2179.**
- Hartz; Grønland [= Greenland]; Holstensborg; collection depth: 12 fathoms; 20.vi.1890; slide 139; [collection number] 879; [no pfa]; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box marked '*L. glac.* Rosenv.' and '2-delede sporangier [= 2-parted sporangia]' and '~~*L. colliculosum*~~ = *L. glaciale*'. Smaller round box has fragments used to prepare slide but with the name '*L. varians*' on the box cover. Collection data including collection number is identical to that of **TRH** isoelectotype material of *Lithothamnion tenue* Rosenvinge (see B4-1868, B4-1832)]; **TRH B9-2180.**
- Hartz; [Greenland]; Østgrønland [= East Greenland], Scoresby Sound, Hekla Havn; [no habitat data]; 18.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (?)'. Annotation slip in box marked '*glac.?*' and 'et par ikke tømte konc.[= a couple of conceptacles not empty]']; **TRH B9-2181.**
- Henry; [Canada]; Terra Nova [= Newfoundland]; [no habitat data]; 1878 [but see Note]; slide 19; ex herb Bornet [**PC**]; [no pfa]; [Note: **TRH** collection consists of one slide and an annotation slip marked 'Fuess 19' [referring to slide 19, prepared by R. Fuess] and 'New Foundland Herb. Bornet' [**PC**] and '*L. fruticul.*' and 'Neppe beholdt brudstk. [= hardly retained fragment]' and 'vistn. [= probably] *glaciale*'. Date of collection may be incorrect. The slide and the collection in **PC** are dated '1878', but Lamy & Woelkerling 1998c: 208 stated that Henry was in Newfoundland in 1888. Collection not included in Adey & Lebednik 1967]; **TRH B9-2330.**
- Hill; Bermuda; [no other locality data]; [no habitat data]; [no date]; slide 495; [ex] herb. W.G. Farlow, number XXII, 1900; [no pfa]; [Note: collection consists of two original round boxes housed in a newer brown box. Smaller round box marked '495' has fragments and is housed inside larger round box. Annotation slip in larger round box marked 'Sp. 2 delte (3 stkr.) [= sporangia 2-parted (three pieces)]' and 'Ogsaa cyst. konc., hab. tem. lig. ekspl. fra Labrador [= also cystocarpic conceptacles, fairly similar to habit of specimen from Labrador]'. On another annotation slip, Foslie indicates that possibly the locality is wrong. Foslie asked Farlow, who assumed that the locality is correct. Adey & Lebednik 1967: 61 question whether Bermuda is the correct locality but mistakenly list the Farlow number as 22]; **TRH B9-2183.**

- Hoel; Spitsbergen; Blomstrands Havn; collection level: '18 m o.h. [= metres above sea level], morenen foran bræen [= the moraine in front of the glacier]'; 29.vii.1907; slide 1648; 'Isachsen Spitsb. Exp. 07 [= Isachsen Spitsbergen Expedition 1907]'; [no pfa]; [no notes]; **TRH B9-2184.**
- Hoel; Spitsbergen; Eiderholmen, Wood Bay; collection level: '2-3 m o.h. [= metres above sea level]'; 22.viii.1907; slide 1647; 'Isachsens Spitsbergen Exp. 1907 [= Isachsens Spitsbergen Expedition 1907]'; [no pfa]; [no notes]; **TRH B9-2185.**
- Holden; [Canada]; Newfoundland, Conception Bay; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Box contains 7 annotation slips all marked 'Conception Bay but then respectively marked '1297B, 1297C, 1297D, 1297E, 1297F, 1297G and 1297H'. The seven specimens in box are similarly numbered]; **TRH B9-2186.**
- Holm; Grønland [= Greenland]; Sukkertoppen; [no habitat data]; 4.vii.1884; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* og [= and] *L. laeve*']. Grouped with B9-2188 under one entry in Adey & Lebednik 1967: 60; **TRH B9-2187.**
- Holm; Grønland [= Greenland]; Sukkertoppen; [no habitat data]; 4.vii.1884; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. = conceptacles']. Grouped with B9-2187 under one entry in Adey & Lebednik 1967: 60; **TRH B9-2188.**
- Holmboe; [Norway]; mellem [= between] Rønvik og [= and] Bodin [now Bodø] kirke [= Bodø church]; collection level: '12-14 m o.h. [= metres above sea level], flere smaa banker [= several small banks]'; 7.x.1902; slide 1327; ex Univ. min. inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked '*Lith. glaciale?*' while slide is marked '*Lith. glaciale*']. Adey & Lebednik 1967: 60 omit mention of the collector]; **TRH B9-2189.**
- Holmboe; [Norway]; strandvold ved [= raised beach near] Ramsaa [now Ramså]; collection level: '8-10 m o.h. [= metres above sea level], over det sorte lag [= over the black layer]'; 1902; [no slides]; ex Univ. min. inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: Adey & Lebednik 1967: 60 omit mention of the collector]; **TRH B9-2190.**
- Holmboe; [Norway]; Vardø, skoitebanen [= the skate field]; collection level: '5 m o.h. [= metres above sea level], paa skjæl [= on shell]'; 1902; [no slides]; ex Univ. min. inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: Adey & Lebednik 1967: 60 omit mention of the collector]; **TRH B9-2191.**
- Howe; [Canada]; North America, Newfoundland, Conception Bay, near Topsail; on shells and pebbles, becoming free, near low water mark; 12.-19.viii.1901; two slides labelled with Howe collection number 911; [no other collection data]; [no pfa]; [Note: 'New York Botanical Garden' **[NY]** printed on slip affixed to box lid. Annotation slip in box duplicates data on box cover. Collection not included in Adey & Lebednik 1967. Collection constitutes a duplicate of B9-2193]; **TRH B9-2192.**
- Howe; [Canada]; Newfoundland, Conception Bay, near Topsail; [no habitat data]; 12.-19.viii.1901; [no slides]; [Howe collection number] 911; pfa: Printz 1929, pl. 23, fig. 2; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box marked with collection data. Smaller round box contains fragments and is marked 'cyst. konc. [= cystocarpic conceptacles']. Collection constitutes a duplicate of B9-2192]; **TRH B9-2193.**
- Howe; [Canada]; Nova Scotia, Halifax Harbor, Pt. Pleasant; on stones and shells near low water mark; 2.-7.ix.1901; [no slides]; [Howe collection number] 1101; [no pfa]; [Note: box marked 'New York Bot. Garden' **[NY]**. 'North American Marine Algae' printed on slip in box]; **TRH B9-2194.**
- Hørring; Island [= Iceland]; Hvalfjodr; collection depth: 5 fathoms, ' "Ralbund [= gravel bottom]" '; 25.vi.1901; [no slides]; station 11, [ex] Bot. Mus. Kbhavn **[C]**; [no pfa]; [Note: box marked '*L. glaciale* f. (?)' and 'Sp. 2 delte [= sporangia 2-parted]']; **TRH B9-2195.**

- Huggins; [Canada]; Nova Scotia, S.W. Briar Island, Gran Ferry; [no habitat data]; [no date]; [no slides]; comm. A.H. Mackay, number 1; [no pfa]; [Note: annotation slip in box marked 'from G.M. Huggins' and 'Gran Ferry']; **TRH B9-2196.**
- Isachsen; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Renbugten; 'i [= in] elvleie, utskylt av lerlag [= washed out from clay layer]'; 8.vii.1901; slide 1113; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2817; [no pfa]; [Note: box marked 'Subfossil'. Adey & Lebednik 1967: 61 omit mention of 'Isachsen' as the collector]; **TRH B9-2197.**
- Jessen; Grønland [= Greenland]; fjorden udenfor [= the fjord outside] Julianehaab; [no habitat data]; 30.vi.1894; [no slides]; Jessen collection number 84; [no pfa]; [Note: box marked '(Hab. nær [= habit close to] *L. collic.*)'. Adey & Lebednik 1967: 60 mistakenly list the author as 'Jenssen']; **TRH B9-2198.**
- Johansen; Island [= Iceland]; Berufjord; collection depth: 16 fathoms; 19.vii.1900; [no slides]; Station XXVa, comm. Helgi Jónsson; [no pfa]; [Note: box marked '*L. glaciale* delvis [= in part]' and 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B9-2199.**
- Johansen; Island [= Iceland]; Seidisfjörður, Skirlavig; collection depth: 30 fathoms, 'Paa et gammelt jernanker [= on an old iron brace]'; 8.vi.1900; [no slides]; mis. H. Jónsson; [no pfa]; [Note: box marked 'Ung. [= young] *L. glaciale*' and 'sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]'. Adey & Lebednik 1967: 61 mistakenly list 'Jónsson' as the collector]; **TRH B9-2200.**
- Jónsson; Island [= Iceland]; Akureyjarhólmi; collection depth: 1-2 fathoms; 27.iv.1897; [no slides]; Jónsson collection number 209; [no pfa]; [Note: the other part of Jónsson collection 209 is in Drawer B5 under *Lithothamnion lenormandii* (B5-1912). Collection not included in Adey & Lebednik 1967]; **TRH B9-2201.**
- Jónsson; Island [= Iceland]; Arnarnes; collection depth: 5-7 fathoms; 30.vi.1898; [no slides]; [ex] Bot. Mus. Kbhavn [C], Jónsson collection number 219 'delvis [= in part]'; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]'. The other part of Jónsson collection 209 is in Drawer C12 under *Lithothamnion tophiforme* (C12-3171). Collection not included in Adey & Lebednik 1967]; **TRH B9-2202.**
- Jónsson; Island [= Iceland]; øst Island [= East Iceland], Vatternes; collection depth: 13-29 fathoms; 15.vii.1898; [no slides]; Jónsson collection 412 'delvis [= in part]'; [no pfa]; [Note: the other part of Jónsson collection 412 is listed under *Lithothamnion tophiforme* (C11-3169)]; **TRH B9-2204.**
- Jónsson; Island [= Iceland]; [east Iceland], Vatternes; collection depth: 15-16 fathoms; 17.vii.1898; [no slides]; Jónsson collection number 401; [no pfa]; [Note: includes additional small box with sporangial conceptacle bearing fragments]; **TRH B9-2205.**
- Jónsson; Island [= Iceland]; N. Island [= north Iceland], Prestbakki; [no habitat data]; 8.ix.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B9-2203.**
- Kjellman; Spitsbergen; Mosselbay; [no habitat data]; 18.?.1872; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on any annotation slips present was not accessible]; **TRH B9-1668.**
- Kjellman; Spitsbergen; Mosselbay; [no habitat data]; 29.x.1872; slide 379; [no other collection data]; [no pfa]; [Note: treated as one of three **TRH** syntypes (B9-2206, B9-2207, B11-2317) of *Lithothamnion glaciale* Kjellman by Woelkerling (1993: 106) prior to the lectotypification of Chamberlain & Irvine (1994b: 183). Box marked 'a. død [= dead] *Cl. compactum?* hvor paa [= on which] *L. laeve* præp. [= slide] 379' and 'b. *L. glaciale*'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slide and any annotation slips present was not accessible]; **TRH B9-2207.**
- Kjellman; Spitsbergen; [no other locality data]; [no habitat data]; 1872-1873; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 24, fig. 2; [Note: treated as one of three **TRH** syntypes (B9-2206, B9-2207, B11-2317) of *Lithothamnion glaciale* Kjellman by Woelkerling (1993: 106) prior to the lectotypification of Chamberlain & Irvine (1994b: 183). Box marked '*Lithoth. fascicul.* og [= and] *L. flavescens* = *L. glaciale*' and 'Analyse 3 nr. 1' and

- 'Lidet stk. af *flavesc.* udtaget [= small piece of *flavesc.* taken out]'. Annotation slip from Kjellman is marked 'Plantæ in itineribus Suecorum polaribus colletæ [= plants collected during Swedish polar journey]'; **TRH B9-2206.**
- Kruuse; [Greenland]; Grønland orient [= east Greenland], Cape Dalton; [no habitat data]; [no date, but see Note]; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '2 delte sp.! [= 2-parted sporangia!]' and 'Brudstk. [= fragments]' and '(1904)'. 1904 is presumed to be the year the material was sent to Foslie, because Kruuse collected in Greenland between 1898 & 1902 (Lund 1959: 10)]; **TRH B9-2208.**
- Kruuse; Jan Mayen; [no other locality data]; collection depth: 25 fathoms; 27.vi.1900; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*Lith. glaciale* (?)' and 'Brudstk. [= fragments]' and '1904' [probably the year the material was sent to Foslie]. Annotation slip in box marked 'Tem. sikkert denne art, da skorpen indtil 1.5-2 mm tyk og saaledes tykkere end nogensinde hos *L. laeve*. Desuden ngl. som det synes antydn. til grendann. [= fairly sure this species, since the crust is almost 1.5-2 mm thick and thicker than ever occurs in *laeve*. Besides there is some indication to branching]']; **TRH B9-2209.**
- McLeod, A.C.; [Canada]; Nova Scotia, Queens County, Milton; [no habitat data]; [no date]; [no slides]; collection 3, comm. Prof. A.H. Mackay, Education Office, Halifax, Nova Scotia; [no pfa]; [Note: box marked '*L. colliculosum* og [= and] *L. glaciale*'. Entry in Adey & Lebednik 1967: 61 reads 'McLeod, Canada, Nova Scotia, Halifax']; **TRH B9-2211.**
- McLeod, D.F.; [Canada]; Nova Scotia, Halifax County, Ingraham River; [no habitat data]; [no date]; [no slides]; comm. A.H. Mackay, number 2; [no pfa]; [no notes]; **TRH B9-2210.**
- Mackay; [Canada]; N. Amerika [= North America], [Nova Scotia], Point Pleasant, within the entrance of Halifax Harbour; [no habitat data]; 14.xii.1896; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 1; [Note: collection constitutes a duplicate of B9-2213]; **TRH B9-2212.**
- Mackay; Amerika, [= America] [meaning Canada]; [Nova Scotia], Point Pleasant within the entrance of Halifax Harbour; [no habitat data]; 14.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'lit.' before date. Collection not included in Adey & Lebednik 1967. Collection constitutes a duplicate of B9-2212]; **TRH B9-2213.**
- Ostenfeld; Island [= Iceland]; Dyrefjord; collection depth: 2-6 fathoms; 30.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 61 omit mention of collector. Collected during Danish Ingolf Expedition 1895-1896 but not so indicated on box]; **TRH B9-2215.**
- [Ostenfeld]; Island [= Iceland]; [no other locality data]; collection depth: 44 fathoms; 1896; [no slides]; Ingolf Exp. [= Danish Ingolf Expedition 1895-1896], collected at station 127, 66° 33' N 20° 05' W, [ex] Bot. Mus Kbhavn [C]; [no pfa]; [Note: box marked '*L. glaciale*? s. med [= mixed with] *L. laeve* (d. art? [= this species?])'. Collector not marked on box, but Ostenfeld was the botanist on the Ingolf Expedition]; **TRH B9-2214.**
- Øyen; [Norway]; [Finnmark], Kirkestappen [now Kjerkestappen], Gjesvær; 'paa [= on] *Mytilus*'; 1899; slide 1326; ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: slide and box marked 'subfossil'. Adey & Lebednik 1967: 62 mistakenly list the collector as 'Quen']; **TRH B9-2217.**
- Øyen; [Norway]; Ørlandet, Ophaug [now Opphaug]; [no habitat data]; 1901; slide 1583; [no other collection data]; [no pfa]; [Note: slide marked 'subfossil'. Adey & Lebednik 1967: 62 mistakenly list the collector as 'Quen']; **TRH B9-2216.**
- Robertson, D.; [United Kingdom]; Scotland, Port Bannatyne; [no habitat data]; [no date]; slide 685; Ex herb. E.M. Holmes [BM, not BIRM as indicated by Stafleu & Cowan 1979: 260], 1901; [no pfa]; [Note: box marked '*L. glaciale* (ialf. vistnok ene ekspl. [= at least one of the specimens])' and '2 delte sp. [= 2-parted sporangia]']; **TRH B9-2218.**
- Ruggles; [Canada]; Nova Scotia, Digby County, Bay of Fonnaday (sic.) [= Fundy]; [no habitat data]; xi.1897; [no slides]; comm. A.H. Mackay, collection numbers '8 og [= and] 11'; [no pfa]; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box marked with collection data and with 'Konc. [= conceptacles]'. Smaller

- round box contains one stone with coralline material and is marked 'sp. konc. [= sporangial conceptacles]'; **TRH B9-2219.**
- Ruggles; [Canada]; Nova Scotia, Digby County, Bay of Funday (sic.) [= Fundy]; [no habitat data]; xii.1897; [no slides]; [comm.] [A.H.] Mackay, collection numbers 9 & 10; pfa: Printz 1929, pl. 23, fig. 6; [Note: box marked 'Ikke konc. [= no conceptacles]']; **TRH B9-2220.**
- Ryberg; Grønland [= Greenland]; Julianehaab; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale*?' and '*L. soriferum* Rosenv.' and '~~*L. tophiforme?* og [= and] *L. flabelatum* sammenv. [= coalesced]~~']; **TRH B9-2221.**
- Saunders; United States; [Alaska], Kukak Bay; [no habitat data]; 4.vii.1899; [no slides]; Harriman Alaska Expedition, Plants of the Alaska Peninsula, number 427; [no pfa]; [no notes]; **TRH B9-2223.**
- Saunders; [United States]; [Alaska], Kukak Bay; [no habitat data]; 12.vii.1899; [no slides]; Harriman Alaska Expedition, Plants of the Alaska Peninsula, number 426; [no pfa]; [Note: box marked '*Lith. glaciale*' and 'Tekst fig. [= text figure]' and '(Anden etik: [= another label] Popoff Island)'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH B9-2222.**
- Schmidt, ?; Canada; [Quebec], Isle d' Anticosti [= Anticosti Island]; [no habitat data]; [no date]; [no slides]; ex Mus. d'h. n. Paris [PC]; [no pfa]; [Note: Adey & Lebednik 1967: 61 omit mention of 'Schmidt' as collector, and it is uncertain which Schmidt the collector is]; **TRH B9-2224.**
- Setchell & Gardner [?]; Amerika [= America] [meaning United States]; Wash. [= Washington], Whidbey Island; [no habitat data]; 1901; slide 801; Algae of Puget Sound, number 134; [no pfa]; [Note: box marked '*L. glaciale* f.?' and 'Tekst fig. [= text figure]' and 'sp. 2 delte [= sporangia 2-parted]'. Printed annotation slip in box marked 'Algae of Puget Sound, No. 134' and 'Distributed by W.A. Setchell and N.L. Gardner'. The note is signed by N.L.G [= N.L. Gardner]. It is not clear whether Setchell or Gardner or both or neither collected the material]; **TRH B9-2225.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, "Frokostneset" i [= in] Havnfjorden [= Havnefjorden]; collection depth: ca 10 metres; 29.vii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2203; [no pfa]; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box marked 'sp. konc. [= sporangial conceptacles]'. Larger round box contains one fragment in a small round box marked 'sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967: 60 omit mention of 'Simmons' as the collector]; **TRH B9-2227.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Nivibugten; 'i et elveleie sammen med *Mya*, *Saxicava* m. fl. [= in a river bed mixed with *Mya*, *Saxicava* and others]'; 8.vii.1901; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2818; [no pfa]; [Note: box marked 'Subfossil' and '2 ekspl. tekst-fig. [= two specimens text-figure]'. Adey & Lebednik 1967: 61 omit mention of 'Simmons' as the collector]; **TRH B9-2228.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, "Ød-edalerna" i [= in] Havnfjorden [= Havnefjorden]; collection level: 'ca 5 meter o.h., i en elvefure i lerblandet grus sammen med talrige muslinger af de sedvanlige arter, *Mya*, *Saxicava* [= ca 5 metres above sea level, in a river bed in a mixture of clay and gravel with a lot of mussels of usual species *Mya*, *Saxicava*]; 28.vii.1900; slide 1115; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2197; [no pfa]; [Note: box marked 'Subfossil' and 'Formen [= the form] (sekundært afleiret [= secondary sedimentary])']. Annotation slip in box has habitat data and is also marked '*Mya truncata*, *Saxicava rugosa*, *Astrata elliptica*'. Adey & Lebednik 1967: 61 omit mention of 'Simmons' as the collector]; **TRH B9-2229.**
- Sørensen; Grønland [= Greenland]; Egedesminde; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B9-2230.**

- Sørensen; Grønland [= Greenland]; Egedesminde; collection depth: 2-3 fathoms; 22.vii.1894; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B9-2231.**
- Simmons; [Canada]; [Northwest Territories], bugt paa sydsiden af N. Kent [= bay on the south side of N. Kent Island]; collection level: 'ca 3 m o.h. [= metres above sea level], sammen med [= mixed with] *Mya*, *Saxicava*, *Balanus*, *Serpula*'; 30.vii.1902; slide 1114; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 3965; [no pfa]; [Note: box marked 'Subfossil' and 'Analyse nr. 5' and 1 ekspl. tekst-fig. [= one specimen text-figure]'. One specimen in box marked 'Tekst-fig. [= text figure]' and another marked '1114'. Adey & Lebednik 1967: 61 omit mention of 'Simmons' as the collector]; **TRH B9-2226.**
- Steincke; Island [= Iceland]; Skagestrand; [no habitat data]; [no date]; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '(gammel samling [= old collection])' and 'Ene ekspl. næsten [= one of the specimens almost a] f. *grani*']; **TRH B9-2232.**
- Waghorne; [Canada]; Newfoundland, Bay of Islands; [no habitat data]; 1897-1898; [no slides]; [no other collection data]; [no pfa]; [Note: 'New York Botanical Garden' printed on slip affixed to box lid but name crossed out. Box marked 'Analyse nr. 3']; **TRH B9-2233.**
- [Anon.]; Canada; Nova Scotia, Digby County, Freeport - further up the mount of the Bay of Fundy; [no habitat data]; ix.1897; [no slides]; comm. A.H. Mackay 15.xi.1897, collection number 3; [no pfa]; [Note: box marked '*L. polymorphum?* (*glac.*?)']; **TRH B9-2234.**
- [Anon.]; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], Hekla Havn; [no habitat data]; 18.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (?)'. Annotation slip in box marked 'Tømte konc. [= empty conceptacles]']; **TRH B9-2236.**
- [Anon.]; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], vest f. [= west of] Hekla Havn; collection depth: ca 17 fathoms; 31.vii.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale?* s. med [= mixed with] *L. foecundum* og [= and] *L. laeve*']; **TRH B9-2237.**
- [Anon.]; Grønland [= Greenland]; Prøven; [no habitat data]; 21.vii.1886; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]']; **TRH B9-2238.**
- [Anon.]; Grønland [= Greenland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; det. Kjellman; [no pfa]; [Note: Adey & Lebednik 1967: 60 list Kjellman as the collector]; **TRH B9-2235.**
- [Anon.]; Island [= Iceland]; nordkyst [= north coast] Grimsey; collection depth: 80 fathoms; 28.viii.1894; [no slides]; [ex] Bot Mus. Kbhavn [C]; pfa: Printz 1929, pl. 23, fig. 3; [Note: box marked 'Kapt. [= Captain] Sølling' (possibly the collector) and 'koncept! [= conceptacles!']'. Collection includes smaller box with conceptacle-bearing fragments]; **TRH B9-2239.**
- [Anon.]; [Norway]; Lofoten, Balstad [now Ballstad], sundet [= the inlet]; collection depth: ca 15 fathoms; 10.ix.1897 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of three different-sized original round boxes now housed in newer brown box. Largest original box marked with collection data and also marked 'Sp. konc. største ekspl. [= sporangial conceptacles largest specimen]' and '(i liden æske til fotogr. [= in small box for photography])' and 'cyst. konc. [= cystocarpic conceptacles] 300-400-500'. Annotation slip inside large round box marked 'Koncept. *ungeri* - lign. - Dette varians og lig. formen fra Aasenfj. [= conceptacles resemble *ungeri*. - This is a variance and resembles the form from Åsenfjorden]'. Smallest original round box, housed inside largest round box, contains one fragment, and is marked 'Balstad, 19.ix.1897' and '*L. glac.*' and 'Sp. konc [= sporangial conceptacles]' and 'af største ekspl. [= from largest specimen]'. Date on smallest round box (19.ix.1897) differs from date on other two original boxes (10.ix.1897) but is probably an error. Third original round box contains one specimen and is marked 'Balstad, 10.ix.1897' and '*L. glac.*' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'fotogr. [= photography]']; **TRH B9-2240.**

- [Anon.]; [Norway]; Talvik, Storkorsnes [now Storekorsnes]; collection level: 'ca 10 m o.h. [= metres above sea level]'; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Subfossil' and '*Lithoth. glaciale* (i lille æske, øvrige usikre) *L. norv.* (?) udtaget og *L. breviaxe* udt. [= *Lithoth. glaciale* (in small box, the others uncertain) *L. norvegicum* (?) taken out and *L. breviaxe* taken out]'. Relevant collection of *L. norvegicum* is C3-2992. Relevant collection of *L. breviaxe* is B13-2339, where Foslie is listed as the collector]; **TRH B9-2242.**
- [Anon.]; [Norway]; Tamsø [now Tamsøya]; collection level: 'ca 5 m o.h. [= metres above sea level]'; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'subfossil' and 'Tekst-fig. [= text figure]'. Adey & Lebednik 1967: 62 record two boxes, but only one has been found]; **TRH B9-2243.**
- [Anon.]; [Russia]; Nouvelle Zemble [= Novaya Zemlya], [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot, Mus. Paris [**PC**], 1909, number 4; [no pfa]; [Note: Adey & Lebednik 1967: 62 mistakenly imply Hariot as the collector and 1909 as the collection date]; **TRH B9-2244.**
- [Anon.]; Spitsbergen; mell. Norskeøerne [now Norskøyene] - Amsterdamøen [now Amsterdamøya] [= between the Norwegian Islands - Amsterdam Island]; [no habitat data]; 1894; slide 216; [no other collection data]; pfa: Printz 1929, pl. 24, fig. 1; [Note: collection consists of two original boxes (one round and one quadratic) housed in a newer brown box. Both original box lids have the same collecting information and list slide 216. Original round box lid also marked with pfa information and with '*L. glaciale*'. Original quadratic box lid marked '*L. glaciale collicul.*' and '(s. med [= mixed with] *L. laeve* & *Cl. circumscr.*)'. Relevant collection of *L. laeve* is B4-1833, where collector is listed as N. Johnson. Relevant collection of *Clathromorphum circumscriptum* is C22-3582, for which collector is not listed]; **TRH B9-2241.**
- [Anon.]; Isle of Man; off Port Erin and Calf Island; collection depth: ca 20 fathoms; x.1895; slide 268; Ex. coll. Univ. College, Liverpool [collections now at **LIV**] [marked on slide]; [no pfa]; [Note: box marked '*L. colliculosum* ell. [= or] *L. glaciale*?']; **TRH B9-2246.**
- [Anon.]; Isle of Man; 2 miles north of Calf; collection depth: 22 fathoms; 25.viii.1894; slide 270; Ex. coll. Univ. College, Liverpool [collections now at **LIV**] [written on slide 270]; [no pfa]; [Note: box marked '*L. colliculosum* eller [= or] *L. glaciale*? and '(Albatross)']; **TRH B9-2247.**
- [Anon.]; [United Kingdom]; [Scotland], Port Bannatyne; [no habitat data]; [no date]; [no slides]; ex herb. E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260]; [no pfa]; [Note: box marked '3' and '*L. collicul.*' and 'ung [= young] *L. glaciale*?'. Annotation slip in box marked 'Ikke fundet konc. [= conceptacles not found]'. Collection not included in Adey & Lebednik 1967]; **TRH B9-2248.**
- [Anon.]; [United Kingdom]; Scotland, Port Bannatyne; [no habitat data]; [no date]; [no slides]; ex herb. E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1901; [no pfa]; [Note: box marked ' "*L. roseum* or *L. colliculosum*?" = ung [= young] *L. glaciale*? and 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B9-2245.**
- [Anon.]; [United States]; Maine, Eastport; at low water mark; ix. [no year]; [no slides]; Farlow 1900, collection number IV; [no pfa]; [Note: one annotation slip in box marked '*Lithothamnion colliculosum*' and 'IV' and with habitat, locality and date data. Another annotation slip in box marked '*L. glac.*' and 'Eastport, Maine' and 'Farl., 1900, IV'. Grouped with B9-2250 under one entry in Adey & Lebednik 1967: 61, who mistakenly list 'Farlow' as the collector]; **TRH B9-2249.**
- [Anon.]; [United States]; [Maine], Eastport; [no habitat data]; ix. [no year]; [no slides]; ex herb. W.G. Farlow; [no pfa]; [Note: box marked '*Lithothamnion fasciculatum* Farl.' and 'Mar. Alg. New Engl., p. 182 [= Farlow 1881: 182]' without reference to *L. glaciale* (but see entry for, B9-2251). Grouped with B9-2249 under one entry in Adey & Lebednik 1967: 61, who mistakenly list 'Farlow' as the collector]; **TRH B9-2250.**
- [Anon.]; [United States]; coast of Maine; [no habitat data]; [no date]; four unnumbered slides; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. fasciculatum* Farl.' and

'New Engl. Alg. fide Collins' and '= *L. glaciale*'. All slides marked 'Collins saml. [= collection]', but it is unclear whether the material came from Collins' collection or was collected by Collins or both]; **TRH B9-2251**.

[Anon.]; [United States]; Massachusetts, Marblehead; [no habitat data]; [no date]; slide 481; herb. W.G. Farlow, III^{XX}, [comm.] 1900; [no pfa]; [Note: box and slide marked 'Pl. jun.' [meaning uncertain]. Adey & Lebednik mistakenly list '1900' as the collection date]; **TRH B9-2252**.

glaciale, *Lithothamnion* (f. *botrytoides*) [originally described as *Lithothamnion delapsium* f. *conglutinata* (Foslie 1895a: 78) but subsequently (Foslie in Rosenvinge 1898: 10) raised to species rank and re-described as *Lithothamnion botrytoides* with a nomenclaturally allowable change in epithet from *conglutinata* (used by Foslie in the rank of forma) to *botrytoides* (used by Foslie in the rank of species). Foslie (1905c: 25) later reduced *Lithothamnion botrytoides* to the rank of form within *Lithothamnion glaciale*, but incorrectly retained the forma epithet *botrytoides* rather than adopting the older forma name *conglutinata* (see Woelkerling 1993: 60). Collections listed in Adey & Lebednik 1967: 60 under *Lithothamnion glaciale* without mention of forma. Additional collections of f. *botrytoides* are in Drawer B11]. **Lectotype: TRH, B11-2323** (in Drawer B11).

Hansen; Grønland [= Greenland]; Ikamiut i Diskobugt [= in Disko Bay]; [no habitat data]; 1888; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 13 [plate 28 marked on box]; [Note: box marked '*L. interm.* Rosenv. Grøn. Alg. = *L. botrytoides* Fosl. = *L. glaciale* f. *botr.*'. Box also marked 'Bot. Mus. Kbhavn.' and 'Fotogr. [= photography]' and '2 delte sp. [= 2-parted sporangia]' and 'Brudstk. af ekspl. [= fragment of specimen]'. Grouped with a collection of *L. glaciale* (f. *glaciale*) (B9-2172) under one entry in Adey & Lebednik 1967: 60, who mistakenly give the collector as 'Hausen']; **TRH B9-2253**.

Hartz; Grønland [= Greenland]; Egedesminde; [no habitat data]; 6.vii.1890; slide 147; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. botrytoides* Fosl. = *L. glaciale* f. *botrytoides*' and '2 delte sp. [= 2-parted sporangia]']; **TRH B9-2254**.

glaciale, *Lithothamnion* (f. *flabellata*). See listing above for *flabellatum*, *Lithothamnion*

glaciale, *Lithothamnion* (f. *subsimplex*) [originally described as *Lithothamnion glaciale* f. *subsimplex* (Foslie 1905c: 27), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 61 under species without mention of forma]. **Neotype: TRH, B9-2255** (see below).

Bay; [Canada]; [Northwest Territories], Ellesmerelands søndre kyst [= the southern coast of Ellesmereland], ved skjærene udenfor [= at the skerries outside] Havnefjorden; collection depth: ca 15 metres; 22.vi.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2051; pfa: Printz 1929, pl. 23, fig. 5; [Note: **Neotype** of *Lithothamnion glaciale* f. *subsimplex* Foslie. Additional data — Woelkerling 1993: 214. Box marked 'sp. konc. [= sporangial conceptacles]' and '(oftest sammenv. med [= usually coalesced with] *L. laeve* and. *Cl. comp.*'). Adey & Lebednik 1967: 61 omit mention of 'Bay' as the collector]; **TRH B9-2255**.

tophiforme, *Lithothamnion* (f. *flabellata*). See listing above for *flabellatum*, *Lithothamnion*

tophiforme, *Lithothamnion* (f. *sphaerica*) [originally described as *Lithothamnion tophiforme* f. *sphaerica* (Foslie 1905c: 51), where Foslie retained it in publication. However, lectotype collection of f. *sphaerica* filed by Foslie with specimens of *L. glaciale*. Other collections of *Lithothamnion tophiforme* are in Drawer C11 and Drawer C12, and one collection labelled *L. tophiforme* f. *sphaerica* also is in C12 Collection listed in Adey & Lebednik

1967: 61 under *Lithothamnion glaciale* without mention of forma]. **Lectotype:** TRH, B9-2256 (see below).

Lyman; [United States]; Maine, Eastport; [no habitat data]; [no date]; slide 522; [comm.] Farlow 1900, number V; [no pfa]; [Note: **Lectotype** of *Lithothamnion tophiforme* f. *sphaerica* Foslie. Additional data — Woelkerling 1993: 205. Collection consists of two original boxes housed in a newer brown box. Larger original box marked '*L. glaciale* forma?' and '(= *L. tophif.* f. ~~sp.~~ *divaricata?*)' and 'cp. Remarks'. Annotation slip in larger original box marked 'Porerne samlet i midten som hos *L. glaciale* [= pores clustered in the middle as like *L. glaciale*']'. Larger original box contains one fragment in a small original box marked 'Præp. [= slide] 522'. Adey & Lebednik 1967: 61 list collection as 'Farlow, 1900, no. 5 522'; **TRH B9-2256.**

Inadequately documented collection

The collection described below (consisting of one glass slide) was found loose in Drawer B9 during the present study. The slide has been placed in a protective packet.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists of one slide now housed inside a packet. Slide marked '*Lithotham. glaciale*'. Collection not included in Adey & Lebednik 1967]; **TRH B9-3857.**

Case B, Drawer 10

boreale, *Lithothamnion*. See listing below for ***glaciale, Lithothamnion* (f. *borealis*)**

glaciale, Lithothamnion [originally described as *Lithothamnion glaciale* (Kjellman 1883: 123), where Foslie retained it in publication. Additional collections are in Drawers B9 and B11]. **Lectotype:** UPS, Kjellman specimen 241 (Chamberlain & Irvine 1994b: 183). The provisional typification of Adey (1970a: 228) is not in accord with ICBN Art. 7.11 and thus cannot be accepted. The designation by Chamberlain & Irvine (1994b: 183) is definite (and thus in accord with Art. 7.11) even though reference is made to the provisional typification of Adey. Chamberlain & Irvine (1994b: 183), however, explicitly state that they have not seen the lectotype.

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 4 fathoms; 21.viii.1897; slide 1617; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* f. (?)' and 'Sp. konc. men ej sporer [= sporangial conceptacles but no spores]'. Grouped with two other collections of *L. glaciale* (f. *glaciale*) (B10-2258, B10-2259), four collections of *L. glaciale* f. *subfastigiata* (B10-2305, B10-2306, B10-2307, B10-2308) and one of *L. var-doense* (B10-2310) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2257.**

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 10 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (og [= and] *L. tophif.* sammenv.? [= coalesced?])' and '1 ekspl. under [= one specimen under] *tophif.*'. Collection consists of a large quadratic box with several large specimens and an enclosed small unmarked box with one fragment. Annotation slip in large box marked 'Alten' and 'Bekkarfjord' and '21.vii.1887' and 'ca 4 fathoms' and 'Alle disse ekspl. 2 delte sp. konc. [= all these specimens 2-parted sporangia conceptacles] 300-400µ'. Collection date and collection depth on annotation slip differ from those on box lid, but are likely to be errors because the Foslie herbarium contains no other collections dated 21.vii.1887. Grouped with two other collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2259), four

- collections of *L. glaciale* f. *subfastigiata* (B10-2305, B10-2306, B10-2307, B10-2308) and one of *L. vardoense* (B10-2310) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2258.**
- Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 10 fathoms; 21.viii.1897; slide 1618 'af delte ekspl. [= of divided specimen]'; [no other collection data]; [no pfa]; [Note: box marked '*L. vardoense* (?) *glaciale* f.'. Grouped with two other collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2258), four collections of *L. glaciale* f. *subfastigiata* (B10-2305, B10-2306, B10-2307, B10-2308) and one of *L. vardoense* (B10-2310) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2259.**
- Foslie; [Norway]; Altenfjord [Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 15 fathoms; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (?)'. Grouped with four other collections of *glaciale* (B10-2261, B10-2262, B10-2263, B10-2264) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2260.**
- Foslie; [Norway]; Altenfjord [now Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 15 fathoms; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with four other collections of *glaciale* (B10-2260, B10-2262, B10-2263, B10-2264) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2261.**
- Foslie; [Norway]; Altenfjord [now Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 15 fathoms; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. vardoense* (?) *glaciale* (?)' and 'Konc. [= conceptacles] ca 300 μ ' and 'sp. 2 delte [= sporangia 2-parted] ca 100x72 μ '. Grouped with four other collections of *glaciale* (B10-2260, B10-2261, B10-2263, B10-2264) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2262.**
- Foslie; [Norway]; Altenfjord [now Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 15 fathoms; 14.viii.1897; slide 1613; [no other collection data]; [no pfa]; [Note: box marked '~~*L. vardoense*~~ *L. glaciale* (?) og [= and] *L. flavescens*' and 'Konc. [= conceptacles] 300-400 μ ' and 'sp. 2 delte [= sporangia 2-parted] 120x70 μ '. See B3-1742 for relevant collection of *L. flavescens*. Grouped with four other collections of *glaciale* (B10-2260, B10-2261, B10-2262, B10-2264) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2263.**
- Foslie; [Norway]; Altenfjord [now Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 10 fathoms; 17.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with four other collections of *glaciale* (B10-2260, B10-2261, B10-2262, B10-2263) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2264.**
- Foslie; [Norway]; Alten, Lille Lærredsfjord [now Alta, Lille Lerresfjorden]; collection depth: ca 10 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* f.' and 'Sp. 2 delte, største ekspl. [= sporangia 2-parted, largest specimen]']; **TRH B10-2265.**
- Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 9 [box marked 'pl. 28']; [Note: box marked '*L. glaciale* f. *typica*'. Grouped with B10-2267 and a collection of *L. glaciale* f. *subfastigiata* (B10-2309) from the same locality and with the same date]; **TRH B10-2266.**
- Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with B10-2266 and a collection of *L. glaciale* f. *subfastigiata* (B10-2309) from the same locality and with the same date]; **TRH B10-2267.**
- Foslie; [Norway]; Finmarken [now Finnmark], Bergsfjord; collection depth: 10-15 fathoms; 21.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH B10-2268.**

- [Foslie]; [Norway]; Finmarken, Bugønes [now Finnmark, Bugøyenes]; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: collector not listed on box but presumed to be Foslie, who gathered another collection at Bugønes in 1882 (B4-1813). Adey & Lebednik 1967: 62 also list Foslie as collector]; **TRH B10-2269.**
- Foslie; [Norway]; Finmarken, Falkebergbugt [now Finnmark, Falkbergbukta], Helnes udenfor [= outside] Kjelvik; [no habitat data]; 5.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH B10-2270.**
- Foslie; [Norway]; Finmarken [now Finnmark], Galten; collection depth: ca 6 fathoms; 28.vi.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B10-2271.**
- [Foslie]; [Norway]; Finmarken, Kjelmø [now Finnmark, Kjelmøya], ydre side [= outer side]; collection depth: 5-10 fathoms; 2.viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: collection not listed separately in Adey & Lebednik 1967: 62 but probably grouped under one entry with an 1897 collection from Kjelmø (B10-2299). Another collection with similar data but dated 3.viii.1887 is in Drawer B9 (B9-2159)]; **TRH B10-2272.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik; collection depth: 10-12 fathoms; 8.viii.1891; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B10-2273.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik; collection depth: 15-20 fathoms; 5.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a large quadratic box and includes two pieces of material in a smaller box marked 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967:62 mistakenly report 1891 as the collection year]; **TRH B10-2274.**
- [Foslie]; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: 10-20 fathoms; viii.1883; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B10-2275.**
- Foslie; [Norway]; Finmarken [now Finnmark], indenfor [= within] Lille Skarsvaag [now Lille Skarsvåg]; collection depth: ca 15 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: originally mixed with *Clathromorphum compactum* – see entry C20-3454]; **TRH B10-2276.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; [no habitat data]; 1881; [no slides]; [no other collection data]; [no pfa]; [Note: date on box marked '(1881?)'. Presumably grouped with B10-2278 under one entry in Adey & Lebednik 1967: 62, but without mention of the 1881 date]; **TRH B10-2277.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; [no habitat data]; 1887; [no slides]; [no other collection data]; [no pfa]; [Note: includes additional small box of fragments with box cover marked 'Cyst. konc. [= cystocarpic conceptacles]'. Presumably grouped with B10-2277 [dated '1881 (?)'] under one entry in Adey & Lebednik 1967: 62, but without mention of the 1881 date]; **TRH B10-2278.**
- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'i selsk. med [= in company with] *L. toph.*, *L. ung.*, *L. laeve & foec.*, *Ph. inv.*'. Grouped with B10-2280 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2279.**
- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: ca 4 fathoms; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(tild. sammenv. med *M. polym.* – udt. [= partly coalesced with *M. polym.* – taken out])'. Relevant collection of *Phymatolithon polymorphum* is C23-3604. Box also marked 'Ekspl. m/traad omkr. – cyst. konc. [= specimen with thread around – cystocarpic conceptacles]'. Collection consists of a large quadratic box that includes fragments in two small boxes, one box marked 'Anth. konc. [= antheridial conceptacles]' and the other marked 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in large box marked 'Skorperne af større stene ca 4 fv., øvr. dels s. dybde, dels nedef. nederste vm., sands. opk. fra ca 4 fv. [= the crusts on larger stones ca 4 fathoms, the rest almost same depth, mostly below lowest water mark, probably washed ashore from ca 4 fathoms]'. Grouped with B10-2279 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2280.**

- Foslie; [Norway]; Kjøllefjord; [no habitat data]; 1887; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens in two boxes both numbered B10-2281. Largest box also contains one fragment in a small box marked 'sp. konc. [= sporangial conceptacles]']; **TRH B10-2281.**
- Foslie; [Norway]; [Kvænangen], Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 7 [box marked 'pl. 28']; [Note: box marked '*L. glaciale* (forkr. ekspl. nærmest *typica* [= dwarfed specimen nearest *typica*)]'. Grouped with B10-2295 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2294.**
- Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (ialf. delvis [= at least in part])' and 'Ekspl. i. papir sp. 2 delte [= specimen in paper sporangia 2-parted]'. Slide marked 'Skorpen [now Skorpa]' and '8.ix.1890' and '*interm. nana*' [see B8-2155] and '*L. patulum* f.' and 'Præp. [= slide] xx'. *L. patulum* is not represented in Foslie's herbarium and appears to be undescribed. Grouped with B10-2294 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2295.**
- Foslie; [Norway]; Loppen [now Loppa], Marholmen; collection depth: 10-15 fathoms; 10.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. med [= mixed with] *L. colliculosum*) som ogsaa udt. særsk. [= which is also taken out separate]' [see B20-2676 for relevant collection of *L. colliculosum*] and 'Største ekspl. *collic.* over *glac.*? [= largest specimen *collic.* over *glac.*?]'. Includes additional box marked 'Sp. konc. [= sporangial conceptacles]' with '*L. glaciale*' crossed out. Collection not included in Adey & Lebednik 1967]; **TRH B10-2282.**
- [Foslie]; [Norway]; Loppen [now Loppa], udenfor [= outside] Buviken [now Buvika]; collection depth: ca 10 fathoms; 11.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* s. m. [= mixed with] *Ph. polym.*'. Collection not included in Adey & Lebednik 1967]; **TRH B10-2283.**
- Foslie; [Norway]; Loppen [now Loppa]; collection depth: 10-15 fathoms, in harbour; 12.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (s. med [= mixed with] *L. laeve*)'. See B4-1796 for relevant collection of *Lithothamnion laeve*. Adey & Lebednik 1967: 62 record two boxes but only one was found during present study]; **TRH B10-2284.**
- Foslie; [Norway]; Loppen [now Loppa], udenfor [= outside] Medvær [now Mevær]; collection depth: 6-8 fathoms; 15.vi.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (delvis [= in part])'. Adey & Lebednik 1967: 62 record two boxes but only one was found during present study]; **TRH B10-2285.**
- Foslie; [Norway]; Porsangerfjord [now Porsangerfjorden], Kistrand; [no habitat data]; 1882; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 11 [box marked 'pl. 28']; [Note: collection not included in Adey & Lebednik 1967]; **TRH B10-2286.**
- Foslie; [Norway]; [Porsangerfjorden], Kistrand; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: specimen is missing from box. Collection not included in Adey & Lebednik 1967]; **TRH B10-2287.**
- Foslie; [Norway]; [Porsangerfjorden], Kistrand; [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* (tildels nær [= partly close to] *tophif.*)' and 'mindste ekspl. 2 delte sp. [= smallest specimen 2-parted sporangia]'. Grouped with B10-2289 and B10-2290 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2288.**
- Foslie; [Norway]; [Porsangerfjorden], Kistrand; [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(i selsk. med [= in company with] *L. tophi-forme*)'. Grouped with B10-2290 and B10-2288 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2289.**
- [Foslie]; [Norway]; [Porsangerfjorden], Kistrand; [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with B10-2288 and B10-2289 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2290.**

- Foslie; [Norway]; Porsangerfjord [now Porsangerfjorden], Kistrand; [no habitat data]; 1892; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 62 (under one entry with B 10-2292) but not found during present study]; **TRH B10-2291.**
- Foslie; [Norway]; Porsangerfjord [now Porsangerfjorden], Kistrand; [no habitat data]; 1892; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 62 (under one entry with B 10-2291) but not found during present study]; **TRH B10-2292.**
- Foslie; [Norway]; Skarsvaag [now Skarsvåg]; collection depth: 5-7 fathoms; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'hard bergb. indenf. nesseset s. med *Ph. polym.* [= hard rock bottom within the headland mixed with *Ph. polym.*]' and '*L. glaciale* tild. bekl. med *Ph. investiens* [= *L. glaciale* partly covered with *Ph. investiens*']'. Annotation slip in box marked 'Koncept. [= conceptacles]'; **TRH B10-2293.**
- Foslie; [Norway]; Smaastrømmen [now Småstrauman], Pasvik - Jakobselv; [no habitat data]; vi.1889; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B10-2296.**
- Foslie; [Norway]; Sydvaranger [now Sør-Varanger], Kirkenes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 62 omit mention of collection date and list locality as 'S. Varangerfjord, Kirkenes']; **TRH B10-2297.**
- Foslie; [Norway]; Sydvaranger, Kjelmø [now Sør-Varanger, Kjelmøya]; collection depth: 4-6 fathoms; 3.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a large quadratic box that includes three individuals in a smaller box marked 'Sp. koncept. [= sporangial conceptacles]'. Adey & Lebednik 1967: 62 record 3 boxes but only one was found. However, two Kjelmø boxes dated 1887 (B9-2159, B10-2272), not explicitly mentioned in Adey & Lebednik, also are present in the Foslie herbarium]; **TRH B10-2299.**
- Huitfeldt-Kaas; [Norway]; [Finnmark], Gjesvær; collection depth: ca 15 fathoms; ca 1896; slide 248; [no other collection data]; [no pfa]; [Note: annotation slip in box marked '*L. glac.* maaske delvis med [= maybe in part with] *investiens*'. Grouped with B10-2301 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2300.**
- Nordgaard; [Norway]; Finmarken, Porsangerfjord, Store Tamsø [now Finnmark, Porsangerfjorden, Store Tamsøya]; collection depth: 30-50 metres; 27.iv.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B10-2302.**
- [Anon.]; [Norway]; [Finnmark], Gjesvær; [no habitat data]; ca 1896; [no slides]; comm. Huitfeldt-Kaas; [no pfa]; [Note: grouped with B10-2300 under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2301.**
- [Anon.]; [Norway]; Finmarken, Hjelmø, Sortvik [now Finnmark, Hjelmøya, Svartvik], indenfor ved holmen [= within the islet]; 'opk. fj. [= washed ashore the tidal zone]'; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH B10-2303.**

glaciale, Lithothamnion (f. borealis) [originally described as *Lithothamnion boreale* (Foslie 1891a: 37) but subsequently (Foslie 1909b: 4 (also see 1905c: 27, footnote 1)) reduced to the rank of form and treated as *Lithothamnion glaciale* f. *borealis*. Collection listed in Adey & Lebednik 1967: 62 under species without mention of forma]. **Holotype:** TRH, B10-2304 (see below).

Holst; [Norway]; [Finnmark], Gjesvær; collection depth: 40 fathoms? [20 fathoms in protologue (Foslie 1891a: 37)]; 1883; slides 131-132 and two unnumbered slides; [no other collection data]; pfa: Foslie 1891a, pl. 1, upper specimen, and Printz 1929, pl. 24, fig. 4; [Note: **Holotype** of *Lithothamnion boreale* Foslie. Additional data — Woelkerling 1993: 40. Collection information written on a piece of paper rather than on box. Collection housed in a large open box but includes two small boxes respectively marked 'Præp. [= slide] 131' and 'Præp. [= slide] 132'. Each small box contains one fragment. Three annotation slips in large box marked '*L. boreale*'. A fourth annotation slip marked '*L. boreale* =

glac.'. All four slides marked '*L. boreale*' and 'contrib. II, t.1 [= Foslie 1891a, pl. 1]'. Adey & Lebednik 1967: 62 mistakenly list 'Foslie' as the collector, and Woelkerling 1993: 40 overlooked the collector's name on the annotation slip with the collection]; **TRH B10-2304**.

glaciale, Lithothamnion (f. subfastigiata) [*Lithothamnion glaciale* f. *subfastigiata* is a superfluous substitute name for *Lithothamnion varians* f. *varians*. Additional data — Woelkerling 1993: 234. The collections below, filed under *L. glaciale* in Foslie's herbarium and listed under that species in Adey & Lebednik 1967: 62 without mention of the forma, are labelled *L. glaciale* f. *subfastigiata*. Additional collections of f. *subfastigiata* are in Drawer B11]. The **lectotype** of *Lithothamnion varians* in in Drawer C23 (C23-3649).

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 4 fathoms; 21.viii.1897; slide 1615; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. i papir [= cystocarpic conceptacles in paper]'. Grouped with three other collections of f. *subfastigiata* (B10-2306, B10-2307, B10-2308), three collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2258, B10-2259) and one of *L. vardoense* (B10-2310) under one entry in Adey & Lebednik 1967: 62. Material with same collecting information (but with modern locality name Alta) represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6)]; **TRH B10-2305**.

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 4 fathoms; 21.viii.1897; slide 1616; [no other collection data]; pfa: Printz 1929, pl. 23, fig. 4; [Note: box marked 'Sp. konc. [= sporangial conceptacles] 240-400' and '2 delte sp. [= 2-parted sporangia]'. Grouped with three other collections of f. *subfastigiata* (B10-2305, B10-2307, B10-2308), three collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2258, B10-2259) and one of *L. vardoense* (B10-2310) under one entry in Adey & Lebednik 1967: 62. Material with same collecting information (but with modern locality name Alta) represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6)]; **TRH B10-2306**.

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 4 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles] 300-500 μ .'. Grouped with three other collections of f. *subfastigiata* (B10-2305, B10-2306, B10-2308), three collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2258, B10-2259) and one of *L. vardoense* (B10-2310) under one entry in Adey & Lebednik 1967: 62. Material with same collecting information (but with modern locality name Alta) represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6)]; **TRH B10-2307**.

[Foslie]; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 4 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip marked '*L. glac.* f. *subfastig.* (og [= and] *L. interm?*)' and 'Grove ekspl. delvis [= coarse specimens partly] *tophif.? fornic.?*'. Second annotation slip marked 'Ikke fundet konc. [= not found conceptacles]'. A third annotation slip is marked 'Udtag hvad muligens tilh. [= specimens taken out belonged maybe to] *L. formic.* eller [= or] *tophif.*'. Grouped with three other collections of f. *subfastigiata* (B10-2305, B10-2306, B10-2307), three collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2258, B10-2259) and one of *L. vardoense* (B10-2310) under one entry in Adey & Lebednik 1967: 62. Material with same collecting information (but with modern locality name Alta) represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6)]; **TRH B10-2308**.

Foslie; [Norway]; Alten, Storkorsnes [now Alta, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* f. *subfastigiata*' and '(maaske ikke alle [= maybe not all])'. One annotation slip in box marked 'Ekspl. i papir konc. ca 400 μ [= specimen in paper conceptacles ca 400 μ]' and 'Ekspl. i papir sp. 2 delte [= specimen in paper sporangia 2-parted]' and 'Fleste ekspl. med sp. konc., dels ogsaa cystoc. [= most specimens with sporangial conceptacles, in part also cystocarpic]'. Another annotation slip marked 'Herfra udtaget *L. flavescens* og 1

ekspl. *Phym. polym. f.* [= from here taken out *L. flavescens* and one specimen *Phym. polym. f.*]. Grouped with two collections of *L. glaciale* (f. *glaciale*) (B10-2266, B10-2267) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2309**.

varians, *Lithothamnion*. See listing above for ***glaciale, Lithothamnion (f. subfastigiata)***, and listing for the species in Drawer C23.

vardoense, Lithothamnion [originally described as *Lithothamnion vardoense* (Foslie 190bb: 3), where Foslie retained it in publication. Additional collections of *L. vardoense* are in Drawer C8]. **Lectotype: TRH, C8-3077** (in Drawer C8).

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 4 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. vardoense* (?)'. Box also marked 'Steril [= sterile]' and '2 delte i særsk. æske [= 2-parted in distinct box]' and 'Sp. & cyst. konc. i særsk. æske [= sporangial & cystocarpic conceptacles in distinct box]', but such boxes have not been found and do not occur in Drawer C8. Grouped with three collections of *L. glaciale* (f. *glaciale*) (B10-2257, B10-2258, B10-2259) and four collections of *L. glaciale* f. *subfastigiata* (B10-2305, B10-2306, B10-2307, B10-2308) under one entry in Adey & Lebednik 1967: 62]; **TRH B10-2310**.

Case B, Drawer 11

botrytoides, Lithothamnion. See listing below for ***glaciale, Lithothamnion (f. botrytoides)***

colliculosum, Lithothamnion [originally described as *Lithothamnion colliculosum* (Foslie 1891a: 43), where Foslie retained it in publication. Collection listed under *Lithothamnion glaciale* in Adey & Lebednik 1967. Additional collections of *Lithothamnion colliculosum* are in Drawer B20]. **Lectotype: TRH, B11-2311** (see below).

Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; collection depth: 10-15 fathoms; 8.ix.1890; slides 137-138; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithothamnion colliculosum* Foslie. Additional data — Woelkerling 1993: 53, and Woelkerling & Verheij 1995: 40, and Woelkerling 1998c: 335. Box marked '*L. glaciale* (mudert med [= dredged with] *L. laeve*)'. The relevant collection of *L. laeve* is B4-1805. Also see C22-3560 under *Clathromorphum circumscriptum*, which is linked to this collection. Slides marked '*L. colliculosum* f. *densa*', a superfluous name for *L. colliculosum* f. *colliculosum* (see Woelkerling 1993: 53, 73). Slide 137 also marked 'Norv. Lith. pl. 17, f. 8 [= Foslie 1895a, pl. 17, fig. 8]'. Large original box contains several loose specimens, four specimens in a plastic bag (depicted in the protologue – see Woelkerling 1993: 53), a smaller original box marked 'sp. konc. [= sporangial conceptacles]' and an empty small original box marked 'Præp. [= slide] Anderss. 138'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH B11-2311**.

delapsum, Lithothamnion (f. conglutinata). See listing below for ***glaciale, Lithothamnion (f. botrytoides)***

glaciale, Lithothamnion [originally described as *Lithothamnion glaciale* (Kjellman 1883: 123), where Foslie retained it in publication. Additional collections are in Drawers B9 and B10]. **Lectotype: UPS**, Kjellman specimen 241 (Chamberlain & Irvine 1994b: 183). The provisional typification of Adey (1970a: 228) is not in accord with ICBN Art. 7.11 and thus cannot be accepted. The designation by Chamberlain & Irvine (1994b: 183) is definite

(and thus in accord with Art. 7.11) even though reference is made to the provisional typification of Adey. Chamberlain & Irvine (1994b: 183), however, explicitly state that they have not seen the lectotype.

- [Foslie]; [Norway]; Lofoten, Balstad [now Ballstad], Kjeøsundet [strait near Kjeøya]; collection depth: 1-2 fathoms; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked '*L. glac. f. med enkelte* [= with a few] *Ph. polym. sammenv.* [= coalesced] and '(ngl. stk. *Ph. polym. uttaget* [= some pieces *Ph. polym.* taken out)'. The relevant collection of *Phymatolithon polymorphum* is C23-3612. Slip also marked 'Næst største ekspl. [= second largest specimen] and 'x = spidse cyst. konc. = *L. glac.* [= x = point cystocarpic conceptacles = *L. glac.*]' and 'v = *Ph. polym.* (ogsaa den compact. lign. del?) [= v = *Ph. polym.* (also the compact similar part?)'. Grouped with a collection of *f. subfastigiata* (B11-2325) under one entry in Adey & Lebednik 1967: 63]; **TRH B11-2313.**
- Foslie; [Norway]; Lofoten, Borgevær [now Borgvær]; [no habitat data]; 1.viii.1881; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale?* (*L. colliculosum?*) (s. med. [= mixed with] *polym.*)' and '2 delte sp. [= 2-parted sporangia] – 190x90']; **TRH B11-2312.**
- Foslie; [Norway]; Lyngø [now Lyngøya] v. [= near] Tromsø; [no habitat data]; vi.1892; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B11-2314.**
- Foslie; [Norway]; Tromsø; [no habitat data]; 3.viii.1886; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. glaciale* (begge? [= both?])' and '2 delte sp. [= 2-parted sporangia]'. Annotation slip in box marked '*"L. frutic. interm."* ']; **TRH B11-2315.**
- Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(bl. [= among] *L. sorif.* — fra [= from] Lanes?)']; **TRH B11-2316.**
- Foslie; Norway; Tromsø; [no habitat data]; 30.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: duplicate box prepared by O. Gjærevoll after Foslie's death for the *Lithothamnium Selecta Exsiccata* (see Woelkerling 1993: 9-10). Box has printed exsiccata label with collection data, reference to one paper (Foslie 1905c), and the name *Lithothamnium glaciale* Kjellm. f. *typica* Fosl. Collection not included in Adey & Lebednik 1967]; **TRH B11-3838.**
- Foslie; [Norway]; Vestfinn. [= West Finnmark], Hasfjord [now Hasfjorden], Hasvik, Brandholmen [now Brannholmen], ydre del fj. [= outer part of fjord]; [no habitat data]; 21.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Analyse nr. 2'. Annotation slip in box marked 'Hasfjord ved [= near] Hasvik, Vestfinn., Brandholmen ydre del fj. [= outer part of fjord]' and 'MF.' and '21.vi.1897'. Slip also marked '*L. glaciale* i selsk. med og sammenv. med *L. fornic.*, hvoraf ekspl. under denne. Tildels beklædt med *Phym. investiens* [= *L. glaciale* in company with and coalesced with *L. fornicatum*, of which specimen is under this. Partly covered with *Phym. investiens*']. Collection includes one fragment in small box marked 'Hasvik' and '21.vi.1897' and '*L. glaciale*' and 'Sp. konc. [= sporangial conceptacles]'. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH B11-2319.**
- Kjellman; [Norway]; Karlsø [now Karlsøy]; collection depth: 6 fathoms; vi.1875; [no slides]; [no other collection data]; [no pfa]; [Note: treated as one of three **TRH** syntypes (B9-2206, B9-2207, B11-2317) of *Lithothamnium glaciale* Kjellman by Woelkerling (1993: 106) prior to the lectotypification of Chamberlain & Irvine (1994b: 183). Annotation slip in box marked '1875, juni, [= June] Calsø'; **TRH B11-2317.**
- [Anon.]; [Norway]; [Finnmark], [Hasfjord]; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 24, fig. 3; [Note: specimen housed in an open box marked with pfa data. Locality data not with specimen but taken from Printz 1929, legend to pl. 24, fig. 3]; **TRH B11-2318.**
- [Anon.]; [Norway]; Finnmarken [now Finnmark], [Hasfjorden], Hasvik; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B11-2321.**

[Anon.]; Norvège [= Norway]; Karlsø [now Karlsøy]; [no habitat data]; [no date]; [no slides]; comm. P. Hariot 1907, number 3 and number 9, [ex] Mus. d'hist. Natur. Paris [PC]; [no pfa]; [Note: annotation slip in box marked 'Flerp. konc. [= several-pored conceptacles]']; **TRH B11-2322.**

[Anon.]; [Norway]; Lofoten, Balstad, Leiskjæret [now Ballstad, Leiskjeret]; collection depth: 3-5 fathoms; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'L. glaciale (og [= and] Ph. polym.)'. One annotation slip in box marked 'Leiskjæret' and 'Toppen af dette ekspl. sikkerlig *glac.* med tem. store og ngt. spidse cyst. konc. [= the top of the specimen really *glaciale* with fairly large and some pointy cystocarpic conceptacles]'. Second annotation slip only marked 'Leiskjæret']; **TRH B11-2320.**

glaciale, *Lithothamnion* (f. *botrytoides*) [originally described as *Lithothamnion delapsium* f. *conglutinata* (Foslie 1895a: 78) but subsequently (Foslie in Rosenvinge 1898: 10) raised to species rank and re-described as *Lithothamnion botrytoides* with a nomenclaturally allowable change in epithet from *conglutinata* (used by Foslie in the rank of forma) to *botrytoides* (used by Foslie in the rank of species). Foslie (1905c: 25) later reduced *Lithothamnion botrytoides* to the rank of form within *Lithothamnion glaciale*, but incorrectly retained the forma epithet *botrytoides* rather than adopting the older forma name *conglutinata* (see Woelkerling 1993: 60). Collections listed in Adey & Lebednik 1967: 63 under *Lithothamnion glaciale* without mention of forma. Additional collections of f. *botrytoides* are in Drawer B9]. **Lectotype: TRH, B11-2323** (see below).

[Foslie]; [Norway]; Malangen, Mestervik; [no habitat data]; 20.ix.1890; slide 146 and two unnumbered slides; [no other collection data]; pfa: Foslie 1895a, pl. 14, fig. 4 [written on slide 146], and Printz 1929, pl. 23, fig. 12 [pl. 28 on box cover]; [Note: **Lectotype** of *Lithothamnion botrytoides* Foslie and of *Lithothamnion delapsium* f. *conglutinata* Foslie. Additional data — Woelkerling 1993: 41, 60. Annotation slip in box marked 'Begge ekspl. 2 delte sp. [= both specimens 2-parted sporangia]'. Slide 146 marked 'L. delapsium f. *conglutinata* = L. *glaciale* f. *botrytoides*'. One unnumbered slide marked 'L. delapsium f. *lobata*'. The other unnumbered slide marked 'L. delapsium f. ~~*lobata*~~ *conglut.*'. *L. delapsium* f. *lobata* is a nomen nudum (see Woelkerling 1993: 139). Large original quadratic box includes two small boxes, each with one fragment and each box marked 'Præp. [= slide] Anders. 146'. 'Anders.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Grouped with B11-2324 under one entry in Adey & Lebednik 1967: 63]; **TRH B11-2323.**

Foslie; [Norway]; Malangen, Mestervik; collection depth: 3-5 fathoms; 20.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(og [= and] L. *fornicatum*)'. Grouped with B11-2323 under one entry in Adey & Lebednik 1967: 63]; **TRH B11-2324.**

glaciale, *Lithothamnion* (f. *subfastigiata*) [*Lithothamnion glaciale* f. *subfastigiata* is a superfluous substitute name for *Lithothamnion varians* f. *variens*. Additional data — Woelkerling 1993: 234. The collection below, filed under *L. glaciale* in Foslie's herbarium and listed under that species in Adey & Lebednik 1967: 63 without mention of the forma, is labelled *L. glaciale* f. *subfastigiata*. Additional collections of f. *subfastigiata* are in Drawer B10]. The **lectotype** of *Lithothamnion varians* in in Drawer C23 (C23-3649).

Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Kjeøsundet [strait near Kjeøya]; collection depth: 1-2 fathoms; 10.ix.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 23 fig. 8 [box marked 'pl. 28']; [Note: grouped with a collection of *Lithothamnion glaciale* (f. *glaciale*) (B11-2313) under one entry in Adey & Lebednik 1967: 63]; **TRH B11-2325.**

glaciale, *Lithothamnion* (f. *verrucosa*) [*Lithothamnion glaciale* f. *verrucosa* is a superfluous substitute name for *Lithothamnion varians* f. *variens*. Additional data — Woelkerling 1993: 234, 235. The collection below, filed under *L. glaciale* in Foslie's herbarium and listed un-

der that species in Adey & Lebednik 1967: 63 without mention of the forma, is labelled *L. glaciale* f. *verrucosa*. Collections of *Lithothamnion varians* are in Drawer C23]. **Lectotype:** TRH, C23-3649 (in Drawer C23).

Foslie; [Norway]; Lofoten, Balstad [now Ballstad]; [no habitat data]; 21.ix.1881; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 18, fig. 5; [Note: box marked '*L. varians* f. *verrucosa*' and '= *Phym. polymorphum* og [= and] *Lithoth. glaciale* f. *verrucosa*' and '(Ene halvdel med cyst. konc. [= one part with cystocarpic conceptacles)'. Annotation slip in box marked 'Obs. *glac.* med spidse cyst. konc. [= observed *glaciale* with pointy cystocarpic conceptacles]']; **TRH B11-2326.**

Inadequately documented collections

The following three inadequately documented collections were found in Drawer B11 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of five large specimens housed in a large closed box. Collection not included in Adey & Lebednik 1967]; **TRH B11-3858.**

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one large specimen housed in an open box. Collection not included in Adey & Lebednik 1967]; **TRH B11-3859.**

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one large specimen housed in an open green box. Collection not included in Adey & Lebednik 1967]; **TRH B11-3860.**

Case B, Drawer 12

During the present study, one loose note containing information for several collections was found in Drawer B12. It now has been placed in an envelope marked 'Loose note found in Drawer B12'.

breviaxe*, *Lithothamnion [originally described as *Lithothamnion breviaxe* (Foslie 1895a: 44), then (Foslie 1900i: 11) reduced to the rank of form and treated as *Lithothamnion ungeri* f. *breviaxe*, and then (Foslie 1905c: 34, footnote and 47) re-elevated to species rank as *Lithothamnion breviaxe*. Additional collections are in Drawer B13]. **Lectotype:** TRH, B12-2327 (see below).

[Anon.]; [Norway]; [Finnmark], Sydvaranger, Kjelmø [now Sør-Varanger, Kjelmøya], havnen [= harbour]; collection depth: 4-6 fathoms; 3.viii.1887; slide 1599 and one unnumbered slide; [no other collection data]; pfa: Foslie 1895a, pl. 2, fig. 1, and Printz 1929, pl. 30, fig. 4; [Note: **Lectotype** of *Lithothamnion breviaxe* Foslie. Additional data — Woelkerling 1993: 44. The lectotype was designated by Printz (1929, legend to pl. 30, fig. 4 and not by Adey in Adey & Lebednik 1967: 63, as suggested by Woelkerling (1993: 44). Collection housed in an open box. Open box also contains two small boxes, one marked 'Lith. Mon. pl. 26 (30), f. 4' and 'Sp. konc. [= sporangial conceptacles]' and the other marked '= præp. [= slide] 1599' and 'Sp. konc. [= sporangial conceptacles] 300-500µ'. Slip with locality and habitat data also marked '*L. breviaxe*' and '(og [= and] *L. glaciale* delvis [= in part] *Ph. invert.?*)' and 'Lith. Mon. pl. 26, f. 4']; **TRH B12-2327.**

- [Anon.]; [Norway]; Finnmarken, Sydvaranger, Kjelmø [now Finnmark, Sør-Varanger, Kjelmøya]; [no habitat data]; 3.viii.1887; slide 1600; [no other collection data]; [no pfa]; [Note: collection includes two large specimens housed in an open box. Green tag on one specimen marked '1'. Annotation slip with collection data also marked '1.' and 'Lith. p. 16' (a reference to the protologue in the independently paginated offprint of Foslie 1895a) and '& *Phym. invest* (& *L. glaciale*)'. Another slip marked '*L. breviaxe*' and 'delvis dekt af [= in part covered with] *Ph. investiens*' and 'Enkelte nærmer sig *L. glaciale*, men neppe denne [= some are close to *L. glaciale*, but hardly this specimen]'. Collection includes a small box with two fragments but it is uncertain whether it belongs to the collection because the box lid is marked '984']; **TRH B12-2328.**
- [Anon.]; [Norway]; [Finnmark], [Sør-Varanger], Kjelmø [now Kjelmøya]; [no habitat data]; 3.viii.1887; one unnumbered slide; [no other collection data]; pfa: Foslie 1895a, pl. 2, fig. 2 (incorrectly marked pl. 1 on annotation slip); [Note: annotation slip marked '*L. breviaxe*' and '*Phym. invest.*' and 'Delvis [= in part] *investiens*?'. Collection housed in an open box. Open box contains two small unmarked boxes, each with fragments, and a somewhat larger box marked 'Kjelmø' and '3.viii.1887' and 'Brudst. af [= fragment of] *L. glac. f.*' and 'pl. 2, fig. 2'. Slide also marked '*L. glaciale forma*'. In the protologue, Foslie 1895a: 44 states that the material of '*L. glaciale forma*' was anastomosed with that of *L. breviaxe*]; **TRH B12-2329.**
- [Anon.]; [Norway]; [Finnmark], Sydvaranger, Kjelmø [now Sør-Varanger, Kjelmøya]; [no habitat data]; 3.viii.1887; slides 1621-1622; [no other collection data]; [no pfa]; [Note: slides dated 3.viii.1887 but annotation slip in box dated 3.vii.1887. Date on note almost certainly wrong as 1887 Kjelmø collections of other species in Foslie's herbarium are dated '3.viii.1887']; **TRH B12-3839.**
- [Anon.]; [Norway]; [Finnmark], [Sør-Varanger], Kjelmø [now Kjelmøya]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of some small pieces of coralline material and a small original box housed in a newer brown box. Small original box marked 'Cyst. konc. [= cystocarpic conceptacles]' and 'Sp. konc. mindste st. [= sporangial conceptacles smallest piece]'. Name of species does not appear on box but is presumed to be *L. breviaxe* as are all other collections in this Drawer]; **TRH B12-2332.**
- [Anon.]; [Norway]; [Finnmark], [Sør-Varanger], [Kjelmøya]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two original boxes, one piece of coralline material and two annotation slips housed in a newer brown box. One annotation slip marked 'Flerporende konc. [= several-pored conceptacles]' and 'Enporende konc. [= uniporate conceptacles] 350-400-450 μ '. Second annotation slip marked 'Finder ikke cyst. konc. [= cannot find cystocarpic conceptacles]'. Small original round box contains one fragment and is marked '87' [significance uncertain]. Small quadratic original box contains one fragment and an annotation slip marked 'Cystoc. [= cystocarpic]'. Name of species does not appear on box but is presumed to be *L. breviaxe* as are all other collections in this Drawer]; **TRH B12-2333.**
- [Anon.]; [Norway]; [Finnmark], [Sør-Varanger], [Kjelmøya]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of nine large specimens housed in an open box without labels or annotation slips. Locality data presumed to be the same as other Drawer B12 collections based on information in the protologue (Foslie 1895a: 44-45)]; **TRH B12-2334.**

Case B, Drawer 13

breviaxe, *Lithothamnion* [originally described as *Lithothamnion breviaxe* (Foslie 1895a: 44), then (Foslie 1900i: 11) reduced to the rank of form and treated as *Lithothamnion*

ungeri f. *breviaxe*, and then (Foslie 1905c: 34, footnote and 47) re-elevated to species rank as *Lithothamnion breviaxe*. Additional collections are in Drawer B12]. **Lectotype:** TRH, B12-2327 (in Drawer B12).

- Foslie; [Norway]; Altenfjord [now Altafjorden], Mjaanes [now Mjånes] i [= in] Rognsund [now Rognsundet]; collection depth: ca 15 fathoms; 14.viii.1897; slide 1614; [no other collection data]; [no pfa]; [Note: box marked '*L. breviaxe* (?)' and 'Største ekspl. præp. 1614 vistnok *breviaxe* som steril, 2 mindre med sp. konc. [= largest specimen slide 1614 probably *breviaxe* as sterile, two smaller with sporangial conceptacles]']; **TRH B13-2335.**
- Foslie; [Norway]; Finnmarken, Skarsvaag [now Finnmark, Skarsvåg], 'Indre del af fj. nær s. sted som *L. glac.* [= inner part of the fjord close to the same place as *L. glac.*]; collection depth: ca 5 fathoms; 20.vi.1897; slide 1624; [no other collection data]; [no pfa]; [Note: collection consists of a large closed box containing a small unmarked box with two fragments and another small box (with one fragment) marked 'Skarsvaag' and '20.vi.1897' and '*L. breviaxe*' and '(2 delte sp. [= 2-parted sporangia])' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with B13-2337 under one entry in Adey & Lebednik 1967: 63]; **TRH B13-2336.**
- Foslie; [Norway]; Finnmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depth: ca 5 fathoms; 20.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'ej sp. [= no spores]'. Annotation slip in box marked 'Ikke fundet sporer [= spores not found]'. Grouped with B13-2336 under one entry in Adey & Lebednik 1967: 63]; **TRH B13-2337.**
- Foslie; [Norway]; [Finnmark], Skarsvaag [now Skarsvåg]; [collection depth: ca 5 fathoms]; 20.vi.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 30, figs 1-2; [Note: specimens found during present study in Drawer B12 amongst *breviaxe* collections from Kjelmø and almost certainly form part of the same gathering as specimens in the preceding two entries (B13-2336, B13-2337). Specimens not mentioned in Adey & Lebednik 1967]; **TRH B13-2338.**
- Foslie; [Norway]; Talvik, Storkorsnes [now Storekorsnes]; collection level: '10 m o.h. [= metres above sea level]'; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. breviaxe* (?)']; **TRH B13-2339.**
- Foslie; [Norway]; Vadsø; [no habitat data]; 1.viii.1882 og [= and] 1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Subfossil' and '*L. breviaxe* (?) (*L. interm.* Kjellm. det. delvis [= determined in part]) s. med [= mixed with] *L. fornic.* (?)']; **TRH B13-2340.**
- Le Maire; [Norway]; Sydvaranger [now Sør-Varanger], Kirkenes; 'skjælbanke v. prestegaarden [= bank of shells at the rectory]'; 1901; slide 1580; [ex] Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked 'Subfossil' and '*L. fornicatum breviaxe* (?)']; **TRH B13-2341.**
- Ostenfeld; Grønland [= Greenland]; Sukkertoppen; [no habitat data]; 1895; slide 1601; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*Lith. breviaxe* (?) Cfr. [= cf.] Remarks (tidl. henført [= earlier identified as] *fruticul. (ungeri)*' and 'Brudst. fotogr. [= fragments photographed]'. 'Remarks' refers to Foslie 1905c: 47-48 where collection is discussed. Collection includes additional small box with one fragment. Adey & Lebednik 1967: 63 omit mention of the collector. Collected during Danish Ingolf Expedition 1895-1896 but not so indicated on box]; **TRH B13-2342.**
- [Anon.]; Canada; Labrador; [no habitat data]; [no date]; slide 1602; [no other collection data]; [no pfa]; [Note: box marked '*L. breviaxe* (?)' and 'Tekst. fig. [= text. sketch]'. One annotation slip in larger box with cell measurements also marked 'Ikke fundet sp. [= sporangia not found]'. Another annotation slip is marked 'Præp. [= slide] 1602' and 'From some point of the coast of Labrador within the province of Quebec, on the coast of the Gulf of Saint Lawrence, within the islands of Cape Breton and Newfoundland' and 'A.K. Mackay, 14.xii.1896' and '*L. ungeri*'. Data on second slip are difficult to interpret because multiple localities are listed, Mackay apparently was collecting in Nova Scotia on 14.xii.1896 (see

B9-2211 & B2-2212) and Foslie (1905c: 44-47) did not list *L. ungeri* as occurring in Canada. Larger box also contains several fragments in a small box marked '1263b'. It seems unlikely that this box belongs to this collection, but its correct disposition is uncertain.

Slide 1263 belongs to a collection of *Lithophyllum retusum* (A22-1377) while the number 1263 also applies to two Siboga Expedition collections, one of *Lithothamnion siamense* (B2-1730) and one of *L. siamense* f. *pseudoramosa* (B2-1734); **TRH B13-2343**.

[Anon.]; [Norway]; [Sør-Varanger], Varangerfjorden, bakken mell. [= the hill between] Kvalnes [now Kvalneset] og [= and] Reppen; collection level: '150 f.o.h. [= fathoms above sea level], skjælsand [= shell sand]'; [no date]; slides 1649-1650; [no other collection data]; [no pfa]; [Note: box marked '*L. breviaxe* (?)' and 'Største især tvils. [= the largest specimen especially uncertain]'. Grouped with B13-2345 under one entry in Adey & Lebednik 1967: 63, who mistakenly list 'Foslie' as the collector]; **TRH B13-2344**.

[Anon.]; [Norway]; [Sør-Varanger], Varangerfjorden, bakken mell. [= the hill between] Kvalnes [now Kvalneset] og [= and] Reppen; collection level: '150 f.o.h. [= fathoms above sea level], skjælsand [= shell sand]'; [no date]; [no slides]; [ex] Univ. Min Inst [= University Mineralogical Institute]; [no pfa]; [Note: box marked 'Brudst. af [= fragments of] *L. breviaxe*?'. Grouped with B13-2344 under one entry in Adey & Lebednik 1967: 63, who mistakenly list 'Foslie' as the collector]; **TRH B13-2345**.

fornicatum, *Lithothamnion* [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B21-26 and C14]. **Lectotype: TRH, B21-2712** (in Drawer B21).

Foslie; [Norway]; Valdresund [now Vallersund], "Skjælsundet"?; collection depth: ca 2 fathoms; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Alle smaa ekspl. med sp. konc. [= all small specimens with sporangial conceptacles]' and 'Desuden særsk. æske ekspl. hvoraf sp. konc. – sprit [= in addition separate box specimens containing sporangial conceptacles – spirit]' and 'cyst. konc. [= cystocarpic conceptacles]'. These two boxes are listed separately as B13-2347 & B13-2348. Grouped with B13-2347 and B13-2348) under one entry in Adey & Lebednik 1967: 63]; **TRH B13-2346**.

Foslie; [Norway]; Valdresund [now Vallersund], "Skjælsundet"?; collection depth: ca 2 fathoms; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Grouped with B13-2346 and B13-1348 under one entry in Adey & Lebednik 1967: 63]; **TRH B13-2347**.

Foslie; [Norway]; Valdresund [now Vallersund], "Skjælsundet"?; collection depth: ca 2 fathoms; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. (spritmat.?) [= sporangial conceptacles (spirit material?)]']. Grouped with B13-2346 and B13-2347 under one entry in Adey & Lebednik 1967: 63]; **TRH B13-2348**.

[Anon.]; [Norway]; Mestervik; [no habitat data]; 28.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 38, fig. 1; [Note: collection consists of tree large specimens, a small box with fragments, and an annotation slip housed in an open box. Small box marked 'sp. konc. [= sporangial conceptacles]'. Annotation slip marked 'Sp. konc. til fotogr., udtat herifra [= sporangial conceptacles for photography, taken out from here]'. Specimen depicted in Printz 1929 figure identified in legend as f. *obcrateriformis*, a superfluous name for f. *fornicatum*. Additional data - Woelkerling 1993: 160]; **TRH B13-2349**.

Case B, Drawer 14

During the present study, Foslie's label for Drawer B14 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion grande*. It now has been placed in an envelope marked 'Label for the original wooden Drawer B14 of

the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)].

grande, *Lithothamnion* [originally described as *Lithothamnion grande* (Foslie 1905c: 43), but not mentioned in Foslie's subsequent publications]. **Lectotype:** TRH, B14-2350 (see below).

Foslie; [Norway]; Mandal, Risø bank [now Banken]; collection depth: 3-4 fathoms; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithothamnion grande* Foslie. Additional data — Woelkerling 1993: 110. Collection data taken from Woelkerling 1993: 110, who based it on the original annotation slip with the collection (now missing). Collection includes 13 specimens in an open box and a number of smaller broken pieces and fragments in a closed box]; **TRH B14-2350.**

Norum; [Norway]; Hardanger, Østensjø; collection depth: ca 15 fathoms; 25.vii.1897; slides 261-262; comm. E. Norum; [no pfa]; [Note: collection consists of a large specimen, an accompanying annotation slip, a quadratic box and a small round box, all housed in an open box. Annotation slip marked with collection data and with 'Præp. [= slide] 262' and 'Præp. [= slide] 261' and '*Lith. grande* (?) hvorpaa liden [= whereupon small] *colliculosum?*'. Quadratic box contains fragments, slides 261-262 and an annotation slip marked 'Cell. ligner præp. 1053 [= cells resemble slide 1053]'. Slide 1053 is part of B14-2353. Small round box contains one piece of coralline material and is marked 'Hardanger, Østensjø' and '*L. grande* f.' and 'Sp. konc. [= sporangial conceptacles]' and '(ikke typisk stk. [= not a typical piece])'. Adey & Lebednik 1967: 64 mistakenly list collector as 'Norman']; **TRH B14-2351.**

Wille; [Norway]; Mandal; [no habitat data]; vii.-viii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: the collection consists of six specimens/pieces in an open box and an annotation slip with collection data. Adey & Lebednik 1967: 64 omit mention of 'Wille' as the collector]; **TRH B14-2352.**

[Anon.]; [Norway]; Sandsund, Røvær; 'mudring [= dredged]'; 1897; [no slides]; comm. E. Norum; [no pfa]; [Note: the collection, housed in an open box, consists of two specimens, several fragments in a small unmarked box, and an annotation slip with collection data that also is marked 'Optaget for flere aar siden (1897 scr.) under mudring [= collected several years ago (1897 scr.) in the course of dredging]' and 'comm. E. Norum' and '3 ekspl. [= three specimens]'. Only two specimens are present. Collection not included in Adey & Lebednik 1967]; **TRH B14-2354.**

[Anon.]; [Norway]; Vestlandet [= Western Norway]; [no habitat data]; [no date]; slide 1053; [no other collection data]; pfa: Printz 1929, pl. 31, [fig. 1] [indicated on a small green tag attached to specimen]; [Note: collection consists of one large specimen in an open box, slide 1053 (marked '*Lithoth. grande*' and 'Vestlandet' and '(Bergens Mus.)' **BG**) and 'Største ekspl. [= largest specimen]') a slip with cell measurements for slide 1053, and an annotation slip marked 'Vestlandet' and '(Bergens Museum)' and 'modt. derfra 1902 [= received from Bergens Museum 1902]' and '3 ekspl. [= three specimens]' and 'Præp. 1053 af største ekspl. [= slide 1053 of largest specimen]'. Only one of the three specimens mentioned on the annotation slip is still present. Adey & Lebednik 1967: 64 list the specimen and the slide as two separate entries '(---- L.M. 31(1)' and '----, Vestlandet, Bergens Mus (slide only) 1053', respectively)]; **TRH B14-2353.**

Case B, Drawer 15

During the present study, some loose notes were found Drawer B15 that could not be linked to any particular collection. These now have been placed in an envelope labelled 'Loose notes found in Drawer B15'. Several photos also were found that could not be linked to any

one collection. These have been placed in an envelope labelled 'Loose photographs found in Drawer B15 that could not be matched with particular collections'.

bandanum, *Lithothamnion* [originally described as *Lithothamnion bandanum* (Foslie 1904b: 12), where Foslie retained it in publication]. **Holotype:** L, 943.7-27 (Verheij & Woelkerling 1992: 276).

[Weber-van Bosse]; [Indonesia]; Banda anchorage; [no habitat data]; xi.1899; slide 224; Siboga Expedition, Station 240; pfa: Printz 1929, pl. 5, fig. 8; [Note: **Holotype fragment** of *Lithothamnion bandanum* Foslie. Additional data — Verheij & Woelkerling 1992: 276, and Woelkerling 1993: 37. Original box marked with collection data and with 'Foto. sp. [= sporangia photographed]' and 'Afb. [= photographed] S.E.'. Collection includes one fragment in a small packet marked with collection data and with 'Foto. nr. 47 [= photograph number 47]' and 'Sp. konc. [= sporangial conceptacles]'. Slide 224 marked '*Lithoth. bandanum* Fosl.' and 'S.E. 224, Stat. 240' and 'Banda-anchorage, x.1899'. Adey & Lebednik 1967: 64 list the collection data as 'x.1899']; **TRH B15-2356.**

ferox, *Lithothamnion* [originally described as *Lithothamnion ferox* (Foslie 1907b: 7), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, B15-2357 (see below).

Weber-van Bosse; Sydafrika [= South Africa]; Natal; [no habitat data]; [no date]; slide 706; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 9; [Note: **Holotype** of *Lithothamnion ferox* Foslie. Additional data — Woelkerling 1993: 92. Original box marked 'Fotogr. sp. [= sporangia photographed]'. Collection includes one fragment in a packet marked 'Natal' and '*L. ferox*' and 'Foto. nr. 37 [= photograph number 37]' and 'Sp. konc. [= sporangial conceptacles]'. Photograph is preserved with the collection]; **TRH B15-2357.**

fumigatum, *Lithothamnion* [originally described as *Lithothamnion fumigatum* (Foslie 1901a: 7), where Foslie retained it in publication]. **Holotype:** TRH, B15-2360 (see below).

Gabriel; [Australia]; Victoria, Corner Inlet, rundt [= around (near)] Phillip Island, øst for [= east of] Port Phillip Bay; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: original box marked 'Fotogr. sp. [= sporangia photographed]'. Collection includes one fragment in a packet marked 'Port Philip Bay 1897' and '*L. fumigatum*' and 'Foto. nr. 33B [= photograph number 33B]' and 'Sp. konc. n. skivef. [= sporangial conceptacles some disk-shaped]']; **TRH B15-2361.**

Gabriel; [Australia]; Victoria, Port Phillip Bay; littoral region; ix.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 1; [Note: annotation slip in box marked 'Taken at low tide']; **TRH B15-2358.**

Gabriel; Australia; Victoria, Port Phillip Bay; [no habitat data]; 1901; slide 1561; [no other collection data]; [no pfa]; [Note: box marked '*L. engelhartii fumigatum*']; **TRH B15-2359.**

Gabriel; Australia; Victoria, Port Phillip Bay, Half Moon Bay; [no habitat data]; 1899; slide 359; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 2; [Note: **Holotype** of *Lithothamnion fumigatum* Foslie. Additional data — Woelkerling 1993: 100, and Woelkerling & Harvey 1993: 597. Original box marked '*Lith. fumigatum* (ikke alle? [= not all?])' and 'Fotogr. sp. [= sporangia photographed]'. Collection includes two fragments in a small box marked '359', and one fragment in a packet marked 'Port Philip Bay 1899' and '*L. fumigatum*' and 'Foto. nr. 33A [= photograph number 33A]' and 'Sp. konc. [= sporangial conceptacles]']; **TRH B15-2360.**

funafutiense, *Lithothamnion* (f. *purpurescens*). See listing below for *purpurescens*, *Lithothamnion*

gabrieli*, *Lithothamnion [originally described as *Lithothamnion gabrieli* (Foslie 1905d: 3), where Foslie retained it in publication]. **Holotype:** TRH, B15-2362 (see below).

Gabriel; Australia; Victoria, Phillip Island, Ocean Beach; [no habitat data]; iv.1905; slides 1003-1004; [no other collection data]; pfa: Printz 1929, pl. 5, figs 1-2; [Note: **Holotype** of *Lithothamnion gabrieli* Foslie. Additional data — Woelkerling 1993: 101, and Wilks & Woelkerling 1995: 557, 563. Original box marked '*Lithoth. gabrieli* (og [= and] *L. repandum*)' and 'Fotogr. sp. [= sporangia photographed]'. Collection includes several fragments in a small box marked '1003-1004', and one fragment in a packet marked '*L. gabrieli*' and 'Foto. nr. 43 [= photograph number 43]' and 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Obs. blandt [= observed among]' and '*Lithoph. verrucosum*, Ocean Beach, Philip Isl., Victoria, iv.1905' and 'er et ekspl. sammenv. med *L. repandum* [= is a specimen coalesced with *L. repandum*]'; **TRH B15-2362**.

kerquelenum*, *Lithothamnion* (f. *obtectula*)**. See listing below for ***obtectulum*, *Lithothamnion

maldivicum*, *Lithothamnion [originally described as *Lithothamnion maldivicum* (Foslie 1903b: 23), where Foslie retained it in publication]. **Holotype:** TRH, B15-2363 (see below).

Gardiner; Maldiverne [= Maldivian Islands]; South Nilandu; collection depth: ca 36 fathoms; ca 20.iv.1900; slides 768, 1549; [no other collection data]; pfa: Printz 1929, pl. 5, fig. 9; [Note: **Holotype** of *Lithothamnion maldivicum* Foslie. Additional data — Woelkerling 1993: 144. Collection includes two original boxes inside a newer brown box and an annotation slip marked '*L. maldivicum* muligens identisk med *L. indicum* [= *L. maldivicum* maybe identical with *L. indicum*]'. One original box marked '768' contains one fragment. Remainder of material in a second box marked with collection data and with 'Fotogr. sp. [= sporangia photographed]'. Second original box also contains an annotation slip from Gardiner with collection data, and one very small fragment in a packet marked '*L. maldivicum*' and 'Foto nr. 44 [= photograph number 44]' and 'Sp. konc. (daarlige) [= sporangial conceptacles (poor)]'; **TRH B15-2363**.

obtectulum*, *Lithothamnion [originally described as *Lithothamnion kerquelenum* f. *obtectula* (Foslie 1899c: 10) but subsequently (Foslie 1900f: 68) raised to the rank of species, namely *Lithothamnion obtectulum*]. **Lectotype:** TRH, B15-2364 (see below).

Gundersen; Kerguelen; [Royal Sound, south side, one 'Norwegian mile' from entrance]; [no habitat data]; 1898; slide 208; [no other collection data]; pfa: Printz 1929, pl. 5, fig. 4; [Note: **Lectotype** of *Lithothamnion obtectulum* Foslie. Additional data — Mendoza & Cabioch 1985b: 257. and Woelkerling 1993: 160. Slide 1550, cited on the outside of the lectotype box, belongs to B15-2365. Locality data taken from a letter from H. Gundersen dated 25.v.1905 (see photocopy with collection). Collection includes several fragments in a small box marked 'Præp. [= slide] Andersss. 208' and '*L. obtectulum*' and 'flerporet [= several-pored]'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Collection also contains fragments in two packets, one marked '*L. obtectulum*' and 'Foto nr. 46a [= photograph number 46a]' and 'Sp. konc. [= sporangial conceptacles]' and the other marked '*L. obtectulum*' and 'Foto nr. 46b [= photograph number 46b]' and 'Sp. konc. [= sporangial conceptacles]'. Collection also contains a photograph that includes one specimen present in this collection. The other two specimens belong to B15-2365 but are missing]; **TRH B15-2364**.

Gundersen; Kerguelen; Royal Sound, [south side, one 'Norwegian mile' from entrance]; [no habitat data]; 1898; two slides numbered 1550; [no other collection data]; pfa: Foslie 1908a, [pl. 20], figs 1-3, and Printz 1929, pl. 5, figs 5-7 [but see Note]; [Note: slide 1550

belongs to this collection and not the lectotype collection (B15-2364). Additional data — Woelkerling 1993: 160. Collection includes a photograph that includes the specimens depicted in Printz 1929, pl. 5, figs 5 & 7, but the specimens are missing. One specimens in collection (numbered '1550'), however, corresponds to Printz 1929, pl. 5, fig. 6. The other specimen in the photo is present in B5-2364. Locality data taken from a letter from H. Gundersen dated 25.v.1905 (see photocopy with collection); **TRH B15-2365.**

Gundersen; Kerguelen; [Royal Sound, south side, one 'Norwegian mile' from entrance]; [no habitat data]; 1898; [no slides]; [no other collection data]; [no pfa]; [Note: locality data taken from a letter from H. Gundersen dated 25.v.1905 (see photocopy with collection). Collection not included in Adey & Lebednik 1967]; **TRH B15-2366.**

Gundersen; Kerguelen; [Royal Sound, south side, one 'Norwegian mile' from entrance]; [no habitat data]; 1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'L. *obtectulum* delvis? [= in part?]' and 'Unders. nærmere [= examine closer]'. Specimens in box numbered I-V. Annotation slip in box refers to specimens I-V as follows: 'I) Konc. ved x ca. 250 μ [= conceptacles at x ca 250 μ], 2 arter? [= two species?]', 'II) x *L. obtect.* med flerp. konc. ell. *Lithoph.* sp.? [= x *L. obtect.* with several-pored conceptacles or *Lithoph.* sp.?]', and 'III-V) Delvis [= partly] *Lithoph.* sp.?'. Locality data taken from a letter from H. Gundersen dated 25.v.1905 (see photocopy with collection). Collection not included in Adey & Lebednik 1967]; **TRH B15-2367.**

pacificum*, *Lithothamnion [originally described as *Lithothamnion sonderi* f. *pacifica* (Foslie 1902a: 4) but subsequently (Foslie 1906b: 10) raised to the rank of species, namely *Lithothamnion pacificum*]. **Lectotype:** TRH, B15-2369 (see below).

Setchell; [United States]; California, Marin County, Duxbury Reef; in small pools in the rocks between tides; 17.xi.1895; slide 206; Setchell collection number 1074; [no pfa]; [Note: box marked '*L. sonderi* f. *pacifica pacificum* (og [= and] *Lithoph. grumosum*?)'. Annotation slip in box marked '*L. sonderi* og ung [= and young] *L. grumosum*?'. Collection includes two fragments in a small box marked '206']; **TRH B15-2368.**

Setchell; [United States]; California, Pacific Grove; [no habitat data]; i.1897; slide 204; Setchell collection number 1595; pfa: Printz 1929, pl. 4, fig. 14; [Note: **Lectotype** of *Lithothamnion sonderi* f. *pacifica* Foslie. Additional data — Woelkerling 1993: 166. Box marked 'Fotogr. sp. [= photographed sporangia]' and '*L. sonderi pacificum* f. *pacifia*'. 'Herbarium of the University of California, Plants of California' [UC] printed on annotation slip from Setchell. Collection includes two packets, each with one fragment. One packet marked 'Pacif. Grove, nr. 1595, jan. 1897, *L. pacificum*' and 'Foto nr. 36 [= photograph number 36]' and 'Sp. konc. [= sporangial conceptacles]'. Other packet marked 'Præp. [= slide] 204']; **TRH B15-2369.**

Setchell; [United States]; California, Pacific Grove; in low pools; i.1897; slide 202; Setchell collection number 1596; [no pfa]; [Note: box marked 'Fotogr. sp. [= photographed sporangia]' and '*L. sonderi* f. *pacifica pacificum*'. Annotation slip from Setchell printed 'Herbarium of the University of California, Plants of California'. Collection includes one fragment in a packet marked 'Calif., nr. 1596, *L. pacificum*' and 'Foto nr. 36 [= photograph number 36]' and 'Sp. konc. (større) [= sporangial conceptacles (larger)]']; **TRH B15-2370.**

Setchell; United States; California, San Pedro; [no habitat data]; [no date]; slide 203; Setchell collection number 1496a; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 64 but not found during present study]; **TRH B15-2371.**

Gardner; America [= United States]; Washington, Channel Rocks, near Seattle; [no habitat data]; 21.v.1901; slide 800; Algae of Puget Sound, number 654, comm. Setchell and Gardner; [no pfa]; [Note: box marked '*L. sonderi* f. *pacifica pacificum* f.'. Collector listed by initials only ['N.L.G.'] on annotation slip in box. Collection includes several fragments in a small box marked 'Præp. [= slide] 800'. Adey & Lebednik 1967: 64 mistakenly list 'Setchell' and 'Gardner' as the collectors and list the collection date as '5.xii.1901']; **TRH B15-2372.**

pacificum, Lithothamnion (f. crassiuscula) [originally described as *Lithothamnion rugosum* f. *crassiuscula* (Foslie 1902a: 4) but subsequently (Foslie 1906b: 10) transferred without change in rank into *Lithothamnion pacificum*, as *L. pacificum* f. *crassiuscula*. Collection listed in Adey & Lebednik 1967: 64 under *Lithothamnion pacificum* without mention of forma]. **Lectotype: TRH, B15-2379** (see below).

Setchell; [United States]; Kalifornien [= California], San Pedro, Whites Point; on pebbles, moving freely with the wave motion; xii.1895; slide 205; Setchell collection number 1149; pfa: Printz 1929, pl. 4, fig. 13; [Note: **Lectotype** of *Lithothamnion rugosum* f. *crassiuscula* Foslie. Additional data — Woelkerling 1993: 66, and Athanasiadis et al. 2004: 155 (as *Mesophyllum crassiusculum*). Box and slide marked '*L. rugosum pacificum* f. *crassiuscula*'. Collection includes several fragments in a small box marked 'Præp. 205 af største ekspl. [= slide 205 of largest specimen]']; **TRH B15-2379**.

purpurescens, Lithothamnion [originally described as *Lithothamnion funafutiense* f. *purpurascens* (Foslie 1901b: 18) but subsequently (Foslie 1907a: 13, 1907e: 98, 1907f: 182) raised to the rank of species, namely *Lithothamnion purpurescens*]. **Lectotype: TRH, B15-2377** (see below).

Gardiner; [Seychelles]; Indiske hav [= Indian Ocean], Amirante Bank; collection depth: 45-60 fathoms; x.1905; slide 1268; Gardiner collection E27; pfa: Printz 1929, pl. 4, fig. 19; [Note: one annotation slip in box marked 'Svag lagdeling [= slightly layered]'. Another annotation slip marked 'Konc. og struktur ligner *funafutiense* præp. 504, men mest *purpurascens* [= conceptacles and structure looks like *funafutiensis* slide 504, but most like *purpurascens*']; **TRH B15-2373**.

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], nordsiden af [= north side of] Koh Chang; encrusting on a coral reef; 7.iii.1900; slide 465; [ex] Mus. bot. Haun. [= Museo botanicum Hauniensi, an old Latin name for the Botanical Museum Copenhagen] [C], number VI 'delvis [= in part], Den danske Siam exp. 1899-1900 [= The Danish Expedition to Siam 1899-1900]'; pfa: Printz 1929, pl. 4, fig. 18; [Note: **Lectotype** of *Lithothamnion funafutiense* f. *purpurascens* Foslie. Additional data — Woelkerling 1993: 184, and Verheij 1994: 122. Box marked '*Lith. funafutiense* f. *purpurascens*' and 'Fotogr. sp. [= photographed sporangia]'. Collector's name listed on slide. Collection number listed as 'VI' on box but as 'VIII' on slide and in annotation slip in box. Annotation slip also marked 'Den danske Siam exp. 1899-1900'. Collection includes three small boxes. One contains two small fragments and is marked '465'. The second contains three fragments and is marked 'Cyst. konc. [= cystocarpic conceptacles]'. The third contains three fragments and is marked 'Sp. konc. [= sporangial conceptacles]'. Collection also contains an empty packet marked 'Siam' and '7.iii.1900' and '*L. purpurascens* (= præp [= slide] 465)' and 'Foto. nr. 41. [= photograph number 41]' and 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967: 64 mistakenly list the collection locality as 'Koh Mesan'. Adey & Lebednik 1967: 64 mistakenly list the source of the material as 'Bot. Mus. Hamburg']; **TRH B15-2377**.

Schmidt; [Thailand]; mell. [= between] Koh Chang and Cape Liant; collection depth: 5-8 fathoms, on a piece of coral; 7.ii.1900; slide 466; [ex] Mus. bot. Haun. [= Museo botanicum Hauniensi, an old Latin name for the Botanical Museum Copenhagen] [C], number VI 'delvis [= in part]', the Danish Siam Expedition 1899-1900; [no pfa]; [Note: box marked '*L. funafutiense* f. *purpurascens*'. Annotation slip in box printed with 'Museum botanicum Hauniense' and is also marked 'legit: Johs. Schmidt' and 'determ: M.F.' and 'Paa koralstk. [= on a piece of coral]'. Collection includes two small boxes with fragments. One small box marked '466' and the other marked 'VI' and 'Præp. [= slide] 466'. Adey & Lebednik 1967: 64 mistakenly list the source of the material as 'Bot. Mus. Hamburg']; **TRH B15-2378**.

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], Koh Kahdat; collection depth: 2 fathoms, coral; 18.ii.1900; slide 460; [ex] Mus. bot. Haun. [= Museo botanicum Hauniensi, an old Latin name for the Botanical Museum Copenhagen] [C], number X, the Danish Siam Expedition 1899-1900; [no pfa]; [Note: box marked '*L. funafutiense* f. *purpurascens*'. Annotation slip in box printed with 'Museum botanicum Hauniense' and is also marked 'legit: Johs. Schmidt' and 'determ: M.F.'. Collection includes a small unmarked box with several fragments. Adey & Lebednik 1967: 64 mistakenly list the source of the material as 'Bot. Mus. Hamburg']; **TRH B15-2375.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], nordsiden af [= north side of] Koh Mesan; collection depth: 10-15 fathoms; 5.ii.1900; slide 467; [ex] Mus. bot. Haun. [= Museo botanicum Hauniensi, an old Latin name for the Botanical Museum Copenhagen] [C], number V 'delvis [= in part]', the Danish Siam Expedition 1899-1900; [no pfa]; [Note: box marked '*L. funafutiense* f. *purpurascens*'. Slide marked 'leg. J. Schmidt'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Collection includes two fragments in a small box marked '467'. Adey & Lebednik 1967: 64 mistakenly list the source of the material as 'Bot. Mus. Hamburg']; **TRH B15-2376.**

[Anon.]; [Gambier Islands]; Rikitea; [no habitat data]; [no date]; slides 1418-1419; [ex] Mus. Paris [PC], [comm.] Hariot iv.1907, collection number 13; [no pfa]; [Note: collection originally housed in the same box as B15-3836 but now separated into a distinct collection. Original box marked '(ret. ½ eks. [= returned ½ specimen])' after the locality name 'Rikitea'. Annotation slip in box marked 'Flerp. konc. [= several-pored conceptacles]' and 'Ikke sporangier [= no sporangia]'. Rikitea is not part of the 'Tahiti Archipelago', as marked on the box and listed in Adey & Lebednik 1967: 65, who also mistakenly list the collector as 'Hariot']; **TRH B15-2374.**

[Anon.]; [Tuamotu Archipelago]; Tearia; [no habitat data]; [no date]; slide 1440; [ex] Mus. Paris [PC], [comm.] Hariot iv.1907, collection number 21; pfa: Printz 1929, pl. 4, fig. 20; [Note: collection originally housed in the same box as B15-2374 but now separated into a distinct collection. Annotation slip in box marked 'Flerp. konc. [= several-pored conceptacles]' and 'Ikke sporangier [= no sporangia]'. Tearia is not part of the 'Tahiti Archipelago', as marked on the box and listed in Adey & Lebednik 1967: 65, who also mistakenly list the collector as 'Hariot']; **TRH B15-3836.**

***rugosum*, *Lithothamnion* (f. *crassiuscula*).** See listing above for ***pacificum*, *Lithothamnion* (f. *crassiuscula*)**

sonderi*, *Lithothamnion [originally described as *Lithothamnion sonderi* (Hauck 1883b: 273), and retained under that name by Foslie in publication]. **Lectotype:** L, 943.008-403 (Chamberlain 1992: 191 (incorrectly termed the holotype), and Woelkerling & Verheij 1995: 77).

Arwidsson; [Sweden]; Bohuslen, udenfor [= outside] Gullmarsfjorden, Ellskär; collection depth: 14-20 metres; 16.vi.1902; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 65 list collector as Ardwisson]; **TRH B15-2381.**

Arwidsson; [Sweden]; Bohuslen, Gullmarsfjorden, Flatholmen s.v. del [= south-western part]; 'paa [= on] *Astarte*', collection depth: ca 35 metres, 'berg [= on rock]'; 11.vi.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ung [= young] *Lith. sonderi*']. Adey & Lebednik 1967: 65 list collector as Ardwisson]; **TRH B15-2380.**

Batters; [United Kingdom]; Scotland, Cumbrae; [no habitat data]; viii.1891; [no slides]; Batters collection number 2; [no pfa]; [no notes]; **TRH B15-2382.**

Debray; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; Debray collection number '25 og [= and] 36 delvis [= in part]'; [no pfa]; [Note: box marked '*Lithoth. sonderi* delvis [= in part]']; **TRH B15-2384.**

- Debray; [France]; Finistère, Glenans; [no habitat data]; [no date]; slide 44; Debray collection number 67; [no pfa]; [Note: box marked 'Temm. høie cyst. konc. [= rather high cystocarpic conceptacles]']; **TRH B15-2385.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], tvers af fyrlygten [= across from the beacon light]; collection depth: 7-10 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2386.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], Tilsedammen – Risøgrund [now Tilsler - Risøya]; collection depth: ca 5 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2387.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2388.**
- Foslie; [Norway]; Hvaløerne [now Hvaler], Galtene [now Galtane] vestenfor [= west of] Skjærhalden [now Skjærhollen]; collection depth: 5-8 fathoms; 21.vii.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 4; [no notes]; **TRH B15-2389.**
- Foslie; [Norway]; Holmestrand, mell. [= between] Kostene Bjerkøskjær – Langgrunden [now Bjørkøyskjæret - Langøygrunnen]; collection depth: 4-8 fathoms; 13.viii.1906; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2392.**
- Foslie; [Norway]; Krafjorden [= Kristianiafjorden, now Oslofjorden], Langøgrunden [now Langgrunnen] mell. [= between] Hurumlandet og [= and] Mølen; collection depth: 6-10 fathoms; 13.viii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 65 mistakenly list the locality as 'gogrunden']; **TRH B15-2390.**
- Foslie; [Norway]; Mandal, Risø bank [now Banken]; collection depth: 3-5 fathoms; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2393.**
- Foslie; Irland [= Republic of Ireland]; Dalkey Sound; [no habitat data]; 13.iv.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2394.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, Bertraghbay; [no habitat data]; 14.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 65 but not found during present study]; **TRH B15-2395.**
- Johnson, T. & Foslie; Irland [= Republic of Ireland]; Dalkey Sound, nær [= near] Dublin; [no habitat data]; 13.iv.1899; slide 232; [no other collection data]; [no pfa]; [Note: collection includes fragments in a small box marked 'Sp. + cyst. konc. [= sporangial + cystocarpic conceptacles]']; **TRH B15-2396.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; 29.i.1894; slide 201 [missing]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2397.**
- [Kuckuck]; [Germany]; Helgoland; [no habitat data]; 10.x.1892; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen in a packet marked 'cyst. konc. [= cystocarpic conceptacles]' and 'Foto nr. 35A [= photograph number 35A]'. Adey & Lebednik record only one Kuckuck collection of this date and locality, but two occur (B15-2398, B15-2399). B15-2398 not included in Adey & Lebednik 1967]; **TRH B15-2398.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; 10.x.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lith. lenormandi*' = *L. sonderi*' and 'Fotogr. cyst. [= photographed cystocarps]'. Adey & Lebednik record only one Kuckuck collection of this date and locality, but two occur (B15-2398, B15-2399)]; **TRH B15-2399.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; vi.1893; slides 1664-1667; [no other collection data]; [no pfa]; [Note: box marked 'Fotogr. sp. [= photographed sporangia]' and 'Sp. 4 delte [= sporangia 4-parted]'. Collection includes a number of specimens in box and also one specimen in a packet marked 'Helgoland vi.1893' and '*L. sonderi*' and 'Foto nr. 35B [= photograph number 35B]' and 'Sp. konc. [= sporangial conceptacles]'. The photograph is preserved as part of the collection. Grouped with B15-2401 under one entry in Adey & Lebednik 1967: 65]; **TRH B15-2400.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; vi.1893; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 4, figs 6-7; [Note: grouped with B15-2400 under one entry in Adey & Lebednik 1967: 65]; **TRH B15-2401.**

- Kylin; [Sweden]; Bohuslen, Koster; [no habitat data]; 10.vii.1905; [no slides]; Kylin collection number 17; [no pfa]; [Note: collection consists of a three unnumbered specimens. Original box marked '17. Koster, 10.vii.1905 (3 störste uden nr. [= three largest without number])'. Previously housed in the same box with four other collections (B15-2402, B15-3832, B15-3833, B15-3834) but separated here into five distinct collections. Adey & Lebednik 1967: 65 included all five collections under one entry that reads 'Kylin, Bohuslen'. Original box (which now houses only B15-2402) also marked '(og blandt 17 liden *L. granii* [= and among 17 small *L. granii*])'. These specimens apparently were removed by Foslie and placed under *Lithothamnion granii* (C10-3121), which, however, now contains only three specimens]; **TRH B15-3835.**
- Kylin; [Sweden]; Bohuslen, Kristineberg; [no habitat data]; viii.1905; [no slides]; Kylin collection number 10; [no pfa]; [Note: collection consists of one specimen marked with the number 10. Originally housed in the same box with four other collections (B15-3832, B15-3833, B15-3834, B15-3835) but separated here into five distinct collections. Adey & Lebednik 1967: 65 included all five collections under one entry that reads 'Kylin, Bohuslen'. Original box (which now houses only B15-2402) also marked '(og blandt 17 liden *L. granii* [= and among 17 small *L. granii*])'. These specimens apparently were removed by Foslie and placed under *Lithothamnion granii* (C10-3121), which, however, now contains only three specimens]; **TRH B15-2402.**
- Kylin; [Sweden]; Bohuslen, Kristineberg; [no habitat data]; viii.1905; [no slides]; Kylin collection number 13; [no pfa]; [Note: collection consists of one specimen marked with the number 13. Originally housed in the same box with four other collections (B15-2402, B15-3833, B15-3834, B15-3835) but separated here into five distinct collections. Adey & Lebednik 1967: 65 included all five collections under one entry that reads 'Kylin, Bohuslen'. Original box (which now houses only B15-2402) also marked '(og blandt 17 liden *L. granii* [= and among 17 small *L. granii*])'. These specimens apparently were removed by Foslie and placed under *Lithothamnion granii* (C10-3121), which, however, now contains only three specimens]; **TRH B15-3832.**
- Kylin; [Sweden]; Bohuslen, Väderöarne; [no habitat data]; 26.vi.1905; [no slides]; Kylin collection number 15; [no pfa]; [Note: collection consists of one specimen marked with the number 15. Originally housed in the same box with four other collections (B15-2402, B15-3832, B15-3834, B15-3835) but separated here into five distinct collections. Adey & Lebednik 1967: 65 included all five collections under one entry that reads 'Kylin, Bohuslen'. Original box (which now houses only B15-2402) also marked '(og blandt 17 liden *L. granii* [= and among 17 small *L. granii*])'. These specimens apparently were removed by Foslie and placed under *Lithothamnion granii* (C10-3121), which, however, now contains only three specimens]; **TRH B15-3833.**
- Kylin; [Sweden]; Bohuslen, Väderöarne; [no habitat data]; 26.vi.1905; [no slides]; Kylin collection number 30; [no pfa]; [Note: collection consists of a eight unnumbered specimens. Original box marked '30. Väderöarne, 26.vi.1905 (8 uden nr. [= 8 without number])'. Previously housed in the same box with four other collections (B15-2402, B15-3832, B15-3833, B15-3835) but separated here into five distinct collections. Adey & Lebednik 1967: 65 included all five collections under one entry that reads 'Kylin, Bohuslen'. Original box (which now houses only B15-2402) also marked '(og blandt 17 liden *L. granii* [= and among 17 small *L. granii*])'. These specimens apparently were removed by Foslie and placed under *Lithothamnion granii* (C10-3121), which, however, now contains only three specimens]; **TRH B15-3834.**
- Lagerheim; [Sweden]; Bohuslen, Gullmarsfjorden; 'fastsittande på en sten upptagen från stort djup (30-40 fathoms) [= fastened to a stone taken up from great depth (30-40 fathoms)']; viii.1882; [no slides]; ex herb. Kjellman [**UPS**]; [no pfa]; [Note: Adey & Lebednik 1967: 65 omit mention of 'Lagerheim' as the collector]; **TRH B15-2403.**
- Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 17.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 65 mistakenly list collector as 'Norman']; **TRH B15-2404.**

- Norum; [Norway]; Sandsund, Røvær; collection depth: 2-3 fathoms; 1.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 65 mistakenly list collector as 'Norman']; **TRH B15-2405.**
- Øyen; [Norway]; Hvaler, Snekotta; [no habitat data]; 1907; slide 1586; [no other collection data]; [no pfa]; [Note: box marked 'sp. & cyst. konc. mindste ekspl. [= sporangial & cystocarpic conceptacles smallest specimen]' and 'hoide o.h.? [= height above sea level]'. Slide marked 'subfossil'. Adey & Lebednik 1967: 65 list collector as Quen]; **TRH B15-2406.**
- Robertson, D.; [United Kingdom]; Scotland, Port Bannatyne; [no habitat data]; [no date]; [no slides]; comm. Holmes 1901; [no pfa]; [Note: annotation slip in box marked '*L. sonderi*' and 'Sp. + cyst. konc. paa forskj. ind. [= sporangial + cystocarpic conceptacles on different individuals]']; **TRH B15-2408.**
- Rosenvinge; [Denmark]; sydl. [= Southern] Kattegat, Fladen; collection depth: 13 fathoms; 12.v.1893; [no slides]; [ex] Bot. Mus. Kbhavn [C], Rosenvinge collection number 3387; [no pfa]; [no notes]; **TRH B15-2409.**
- Rosenvinge; [Denmark]; Lille Middelgrund; collection depth: 9-10 fathoms, 'grus [= gravel], paa død [= on dead] *L. calcareum*'; 10.v.1893; [no slides]; [ex] Bot. Mus. Kbhavn [C], Rosenvinge collection number 3381b; [no pfa]; [no notes]; **TRH B15-2410.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; [no habitat data]; vi.1906; slide 1118; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 5; [no notes]; **TRH B15-2411.**
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; 'Des ngt. udsat, dels havnen ved moloen [= somewhat exposed, in part the harbour at the pier]'; vi.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Præp. & ekspl. anden æske [= slide & specimen in another box])'. The slide and other box form part of preceding collection (B15-2411). B15-2412 not included in Adey & Lebednik 1967]; **TRH B15-2412.**
- Sauvageau; [France]; (Pyrénées Orientales), Banyuls-sur-Mer; 'Récolte a la main [= collected by hand]'; 5.i.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. sonderi* (?)' and '*lenorm.*?' and 'Konc. [= conceptacles]']; **TRH B15-2413.**
- Wille; [Norway]; Lyngør; collection depth: ca 7 fathoms, 'udenfor fyrtaarnet [= outside the lighthouse]'; 15.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. sonderi* (?)'. Habitat data on annotation slip in box]; **TRH B15-2414.**
- Wille; [Norway]; Mandal; [no habitat data]; viii.1889; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2415.**
- [Anon.]; [Denmark]; Læsø Rende; [no habitat data]; [no date]; [no slides]; ex Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked 'Taget af en Fisker skænket af konsul Cloos [= taken by a fisherman given to consul Cloos]']; **TRH B15-2416.**
- [Anon.]; [France]; Cherbourg; [no habitat data]; [no date]; [no slides]; comm. Hariot [PC], xii.1908, number 3; [no pfa]; [Note: box marked '= *Lithoth. sonderi* og [= and] *L. lenormandi*'. Adey & Lebednik 1967: 65 mistakenly list 'Hariot' as the collector and 'xii.1908' as the collection date]; **TRH B15-2417.**
- [Anon.]; [France]; Cherbourg, St. Vaast-la-Hougue; [no habitat data]; [no date]; [no slides]; Nr. 43, Mus. Paris [PC]; [no pfa]; [Note: box marked '*L. battersii*' and '= *L. sonderi*'. Further box annotations refer to a paper of Heydrich (1901a – see p. 540) and a paper of Foslie (1901d – see p. 26). Annotation slip in box marked 'Tyndt conceptacle dække som hos *sonderi* delvis overv. konc. andere del av ekspl., men maaske foraarsaget lavere dyr [= thin conceptacle layer as with *sonderi* in part overgrown conceptacles other part of the specimen, but maybe induced by a lower animal]']; **TRH B15-2418.**
- [Anon.]; [France]; Gallia Occidentalis [= western France]; [no habitat data]; [no date]; [no slides]; [ex.] Mus. Paris [PC], [comm.] Hariot, iv.1907, number 4; [no pfa]; [Note: box marked '*"Lithoth. lenorm."* = *Lithoth. sonderi*' and 'hab. nær [= habit close to] *lenorm.*'. Adey & Lebednik 1967: 65 mistakenly list 'Hariot' as the collector and '1907' as the collection date]; **TRH B15-2419.**

- [Anon.]; [Norway]; Haugesund, Salhus; collection depth: 8-10 fathoms, 'sterk strøm [= strong current]'; 19.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. sonderi* enkeltvis s. med [= individually mixed with] *Phym. polym.*, *L. laeve*'. Collections from same locality and date are filed under *Lithothamnion laeve* (B4-1861) and *Phymatolithon polymorphum* (C23-3632). Adey & Lebednik 1967: 65 list Foslie as the collector, but this could not be confirmed from data with the collection]; **TRH B15-2391**.
- [Anon.]; [Norway]; Hvaløern [Hvaler], Galtene [now Galtane] vestenfor [= west of] Skjærhal-den [now Skjærhollen]; collection depth: ca 5-8 fathoms; 21.vii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2421**.
- [Anon.]; [Norway]; Langesund, Fuglø [now Fugløya]; collection depth: ca 10 fathoms; 12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B15-2422**.
- [Anon.]; [Norway]; Langesund, [three localities listed – see Note]; collection depth: [see Note]; 12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked with three localities and collection depths: 'Fuglø [now Fugløya] (ca 10 fathoms), Gjeterøsun-det [the strait near Geiterøya] (ca 4 fathoms), Stenbugten [now Steinvika] (3-4 fathoms)', but specimens cannot be separated on the basis of locality because all eight specimens are unmarked. Collection not included in Adey & Lebednik 1967]; **TRH B15-2423**.
- [Anon.]; [Norway]; Lyngør, store banke udenfor fyret [= large bank outside the lighthouse]; collection depth: ca 10 fathoms; 15.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]']; **TRH B15-2424**.
- [Anon.]; [United Kingdom]; England, south coast; collection depth: ca 10 fathoms; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 11, ex herb. Kew Gardens [K]; [no pfa]; [Note: box marked 'og steril skorpe af [= and sterile crust of] *Phym. polym.* ell. [= or] *laevigatum*'. Annotation slip in box marked '*L. sonderi*?'. Adey & Lebednik 1967: 65 list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all with-out mention of collector or collection date. Algal collections originally at K are now housed at BM]; **TRH B15-2383**.
- [Anon.]; Isle of Man; off Calf Island; [no habitat data]; [no date]; slide 271; Ex coll. Univ. Col-lege Liverpool [collections now at LIV] [marked on slide]; [no pfa]; [no notes]; **TRH B15-2420**.
- [Anon.]; [United Kingdom]; Scotland, Lamlash Bay, Arran; collection depth: 14 fathoms; 1902; [no slides]; [comm.] Mrs Hannah Robertson; [no pfa]; [Note: box marked '*L. son-deri*! paa [= on] *L. calcareum* f. *subsimplex*'. Annotation slip in box marked '1 paa [= one on] *L. calc.*!' and '1 ekspl. ligner hab. [= one specimen in habitat looks like] *L. battersii* and '1 ung paa sten [= one young on stone]'. Hannah Robertson almost certainly sent the specimen to Foslie as evidenced by information in C3-2997. Adey & Lebednik 1967: 65, however, list Robertson as the collector]; **TRH B15-2407**.
- [Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number 50; [no pfa]; [no notes]; **TRH B15-2425**.

sonderi, *Lithothamnion* (f. *pacifica*). See listing above for *pacificum*, *Lithothamnion*

sonderi, *Lithothamnion* (f. *sublaevigata*) [originally described as *Lithothamnion sonderi* f. *sublaevigata* (Foslie 1905c: 24), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 65 under species without mention of forma].
Holotype: TRH, B15-2426 (see below).

Foslie; [Norway]; Røvær; 'Springfl. ebbe, holmen ret i mod fyret. [= spring ebb tide, the islet in front of the lighthouse]'; 21.vii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 8; [Note: **Holotype** of *Lithothamnion sonderi* f. *sublaevigata* Foslie. Additional data — Woelkerling 1993: 210. Box marked '(s. med [= mixed with] *Ph. polym.*)'. Adey & Lebednik 1967: 65 list collection locality as Rørar]; **TRH B15-2426**.

Case B, Drawer 16

During the present study, some loose notes were found Drawer B16 that could not be linked to any particular collection. These have been placed in an envelope labelled 'Loose notes found in Drawer B16'. In addition, some photos with species names were found but the photos could not be linked to particular collections. They have been placed in envelopes within Drawer B16. Further notes on these are included for relevant species below.

alternans, Mesophyllum. See listing below for ***philippii, Lithothamnion (f. alternans)***

crispatum, Lithothamnion. See listing below for ***philippii, Lithothamnion (f. crispata)***

insigne, Lithothamnion [originally described as *Lithothamnion insigne* (Foslie 1906b: 9), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, B16-2431 (see below).

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone; vi.1904; slides 1165-1166; Setchell collection number 6343; pfa: Printz 1929, pl. 5, fig. 10; [Note: **Holotype** of *Lithothamnion insigne* Foslie. Additional data — Woelkerling 1993: 126, who mistakenly gives the type locality as the 'Bay of Islands'. Box marked '*Lithoth. insigne* og [= and] *Lithoph. tuberculatum*' and '*Lithoph. detrusum*' and 'Fotogr. sp. [= sporangia photographed]'. Printed annotation slip in box is marked 'Herbarium of the University of California, North Island, New Zealand' and 'W.A. Setchell, 1904' and also has hand-written collection data. Collection includes one fragment in a packet marked '*L. insigne*' and 'Foto. nr. 48 [= photograph number 48]' and 'sp. konc. [= sporangial conceptacles]'; **TRH B16-2431**.

lemniscatum, Lithothamnion [originally described as *Lithothamnion lemniscatum* (Foslie 1907b: 11), where Foslie retained it in publication]. **Holotype:** TRH, B16-2432 (see below).

[Engelhart]; [Australia]; Syd Australien [= South Australia], Cape Jaffa; [no habitat data]; 1899; slide 1041 and one unmarked slide; comm. Dr Aug. Engelhart, Kingston; pfa: Printz 1929, pl. 7, fig. 11; [Note: **Holotype** of *Lithothamnion lemniscatum* Foslie. Additional data — Woelkerling 1993: 137, and Woelkerling & Harvey 1993: 597. Box marked 'Foto. sp. [= sporangia photographed]'. Collection includes one specimen in a large original box marked with all collection data, one fragment in a packet marked '*L. lemniscatum*' and 'Foto. nr. 58 [= photograph number 58]' and 'sp. [= sporangia]'. Several further fragments enclosed in a piece of paper marked 'cyst. [= cystocarpic]', a small unmarked box with fragments, and one unmarked slide in a cardboard holder marked '1041' after Foslie's death]; **TRH B16-2432**.

lichenoides, Lithothamnion. The Flahault collection from Banyuls-sur-Mer France and Sauvageau collection from San Vincent de la Barquera Spain listed under *Lithothamnion lichenoides* in Adey & Lebednik 1967: 66 are listed here under *Lithothamnion philippii*.

macroblastum, Lithothamnion [originally described as *Lithothamnion macroblastum* (Foslie 1897b: 16), where Foslie retained it in publication]. **Holotype:** TRH, B16-2435 (see below).

Note: During the present study, a photo marked '*L. macroblastum*' was found in Drawer B16 but could not be linked to any collection of that species. The photo has been placed in an envelope in B16 and labelled 'Photo marked *L. macroblastum* that could not be linked to material in Drawer B16'.

[Anon.]; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; ex herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 33; [no pfa]; [Note: box marked '*L. macroblastum*?'. Annotation slip in box marked '~~Muligens [= probably]~~ *L. philippii* (*decuss.* Solms) men cfr. koncept. her nær *macrobl.* men det nedtr. parti langt større hos *phil.*, medens selve koncept. hos *macr.* er større og nedtrykt parti mindre. [= but cf. conceptacles are here close to *macrobl.* but the depressed area is much larger than *phil.* while the conceptacles on *macr.* are larger and the depressed area smaller']. It is unclear whether Debray also was the collector, as indicated in Adey & Lebednik 1967: 66]; **TRH B16-2433.**

[Anon.]; Frankrig [= France]; Antibes; [no habitat data]; [no date]; slide 1560; ex herb. E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1899; [no pfa]; [Note: box marked '*L. macroblastum*?' and '*bornetii*?'. Annotation in slip in box marked '*L. macroblast.* ell.[= or] *bornetii*' and 'Faa andet stk. med bedre koncept.! [= few other pieces with better conceptacles!']. Slide marked '*L. bornetii*'. Adey & Lebednik 1967: 66 mistakenly list 'Holmes' as the collector and '1899' as the collection date]; **TRH B16-2434.**

[Anon.]; Italy; Gulf of Naples; [no habitat data]; [no date]; [slide 191]; collection depth: 30-80 m, comm. Zool. Station; pfa: Printz 1929, pl. 6, fig. 1; [Note: **Holotype** of *Lithothamnion macroblastum* Foslie. Additional data — Woelkerling 1993: 140, Woelkerling & Harvey 1993: 591, Woelkerling 1998c: 352, and Cabioch & Mendoza 1998: 217, and Cabioch & Mendoza 2003: 265. Collection includes fragments in a small box marked 'præp. [= slide] Anders. 191'. 'Anders.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH B16-2435.**

philippii*, *Lithothamnion [originally described as *Lithothamnion philippii* (Foslie 1897b: 7), where Foslie retained it in publication]. **Lectotype:** **TRH**, B16-2487 (see below).

Note: During the present study, three photos marked '*L. philippi*' were found in Drawer B16. One was numbered '56D', a second '56E' and the third was numbered '18/6' and annotated 'lave cyst. konc. [= low cystocarpic conceptacles]'. All photos are of higher magnification and could not be linked to any collection of *L. philippii* or a forma of *L. philippii* in Foslie's herbarium. Consequently, the photos have been placed in an envelope in B16 and labelled 'Photos marked *L. philippi* that could not be linked to material in B16-2518'.

Attersoll; Malta; [no other locality data]; 'paa grenet koral [= on branched coral]'; [no date]; slide 1568; ex herb. Brit. Mus. [**BM**], collection number 20 (1899); [no pfa]; [Note: box marked 'Fotografi [= photography]'. One annotation slip in box has habitat data. Second slip is marked 'f. *subdura*?'. Adey & Lebednik 1967: 67 mistakenly imply that 1899 is the collection date]; **TRH B16-2436.**

Chalon; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip in box marked '*L. philippii* (Delvis overvokset *Lithoph. expansum* ell. omv. [= in part overgrown by *Lithoph. expansum* or vice versa]'. Second annotation slip marked '*L. macrobl.* (jfr. [= cf.] *bornetii*) s. med [= mixed with] *L. phil.* og [= and] *L. exp.*']; **TRH B16-2437.**

Flahault; France; Banyuls-sur-Mer; [no habitat data]; ix.1893; slide 1046; Flahault collection number 277; [no pfa]; [Note: box marked 'Middelhavet [= the Mediterranean]' and '(*L. lichenoides*) *L. philippi*?' and 'Obs. heterocyst.? [= heterocysts (trichocytes)? observed]'.

- Annotation slip with cell measurements also marked 'Sp. konc. [= sporangial conceptacles]'. Listed in Adey & Lebednik 1967: 66 under *Lithothamnion lichenoides*; **TRH B16-2438**.
- Flahault; France; au large du [= off of] Cape Leyrefite, près [= near] Banyuls-sur-Mer (Golfe du Lion); collection depth: 35 metres; 27.x.1893; [no slides]; Flahault collection number 256b; [no pfa]; [Note: box marked '*L. philippii*?'. Annotation slip with cell measurements in box also marked 'Sp. konc. [= sporangial conceptacles]'. Flahault collection 256 is in Drawer A8 under *Lithophyllum incrustans* (A8-396)]; **TRH B16-2439**.
- Hauck; Mare Adriat [= Adriatic Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Thuret [**PC**]; [no pfa]; [Note: box marked '*L. decussatum* Solms' near top and '*L. philippii*' near bottom. Annotation slip in box with cell measurements also marked 'Sp. konc. [= sporangial conceptacles]'. Second annotation slip in box marked 'Lidet anth.? konc. [= small antheridial? conceptacles]'. Grouped with B16-2441 and B16-2442 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2440**.
- Hauck; e mari Adriatico [= Adriatic Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Thuret - Bornet [**PC**]; [no pfa]; [Note: box marked '*L. decussatum* Solms = *L. philippii*' and 'Hauck ded. [= given by Hauck]' [probably indicating that Hauck sent the material to **PC**]. Subsequently Foslie received the material from **PC**. Annotation slip in box with cell measurements also marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with B16-2440 and B16-2442 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2441**.
- Hauck; Adria [= Adriatic Sea], [country uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Thuret [**PC**]; [no pfa]; [Note: box marked '*L. philippii*' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with B16-2440 and B16-2441 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2442**.
- Johnstrup; Middelhavet [= the Mediterranean], [country uncertain]; [no other locality data]; [no habitat data]; 1875; [no slides]; [ex] Bot. Mus Kbhavn [**C**]; [no pfa]; [Note: box marked '*L. philippii*?' and 'cyst. konc.? [= cystocarpic conceptacles?]' and 'af gl. saml. [= from old collection]' and 'Brudst. af rundt ekspl. [= fragments of round specimen]'. Collector's name difficult to read. Adey & Lebednik 1967: 66 omit mention of collector]; **TRH B16-2443**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Bagnole [Island]; collection depth: 23-30 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '3a' [almost certainly a collection site number] before collection depth data. Annotation slip in box marked 'Tømte konc. [= empty conceptacles]']; **TRH B16-2444**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands]; collection depth: 25-30 metres; 11.vi.1895; slide 618; [no other collection data]; [no pfa]; [Note: box marked '*L. philippii*?' and 'Cystoc. ? [= cystocarpic]' and '6' [almost certainly a collection site number] before collection depth data. Annotation slip in box marked 'Dels svagt udviklet hypoth., dels ikke [= in part weakly developed hypothallium, partly not]'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2446, B16-2447, B16-2448, B16-2449, B16-2450, B16-2451) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2445**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands]; two listed collection depths: '1b' 25-30 metres and '1c' 10-30 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '1b. Cystoc. [= cystocarpic]' and '1c. Sp. [= sporangia]'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2447, B16-2448, B16-2449, B16-2450, B16-2451) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site

number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2446.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brinoni Islands]; collection depth: 16-25 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '1d)' [almost certainly a collection site number] before collection depth data and '*L. philippii* f.'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2446, B16-2448, B16-2449, B16-2450, B16-2451) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2447.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands]; collection depth: 40-50 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '5)' [almost certainly a collection site number] before collection depth data and 'sp. [= sporangia]'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2446, B16-2447, B16-2449, B16-2450, B16-2451) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2448.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brinoni Islands]; collection depth: 25-30 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '6)' [almost certainly a collection site number] before collection depth data and '*L. philippii* f.' and '(ell. [= or] *squam.*? delvis [= in part])' and on one side also marked 'Muligens [= maybe] *Peysson. compacta*'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2446, B16-2447, B16-2448, B16-2450, B16-2451) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2449.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands]; collection depth: 24-26 metres, 'paa [= on] *L. frutic.*?'; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4b)' [almost certainly a collection site number] before collection depth data and '*L. philippii*?'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2446, B16-2447, B16-2448, B16-2449, B16-2451) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2450.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brinoni Islands]; collection depth: 24-26 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4)' [almost certainly a collection site number] before collection depth data and '1

- paa død [= on dead] *L. frutic.* med cyst. [= with cystocarpic] and '2 f. *subdura?*'. Grouped with six other collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2446, B16-2447, B16-2448, B16-2449, B16-2450) and one of *L. philippii* f. *subdura* (B16-2501) under one entry in Adey & Lebednik 1967: 67, who explicitly reported the collection date but listed only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik reported seven boxes, but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2451.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], zwischen [= between] Astorga und [= and] Due Sorelle; collection depth: 30-31 metres; 4.xi.1899; slide 773; [no other collection data]; [no pfa]; [Note: box marked '*L. fruticulosum?* ung [= young] *philippii* ell. [= or] *phil.*?' and 'carposp. [= carposporangia]'. Locality on box is numbered '4'. Grouped in Adey & Lebednik 1967: 66 with a collection of *L. philippii* f. *subdura* (B16-2503)]; **TRH B16-2452.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni Islands; [no habitat data]; 6.xi.1899; [no slides]; collection depth: 23-30 m; [no pfa]; [Note: collection listed in Adey & Lebednik (1967: 66) but not found during present study]; **TRH B16-2453.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola; [no habitat data]; 7.vi.1895; slide 621; [no other collection data]; [no pfa]; [Note: box marked 'Vistnok [= most likely] *L. philippii* delvis? [= in part?]' and 'mindste [= smallest] *squam.?*' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'af flade ekspl. [= of flat specimens]' and 'Cr. – Br.'. Grouped with B16-2455 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2454.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola; [no habitat data]; 7.vi.1895; slide 776; [no other collection data]; [no pfa]; [Note: box marked '*L. philippii* (?)' and 'cyst. konc. [= cystocarpic conceptacles]'. Annotation slip in box marked 'Grovere cell. end typ. *phil.* [= coarser cells than typical *phil.*']. Grouped with B16-2454 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2455.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], bei [= near] Pola, östl. von [= east of] St. Andrea; collection depth: 33 metres; 10.i.1897; slide 619; [no other collection data]; [no pfa]; [Note: box marked 'Anther. konc. [= antheridial conceptacles] 200-260 μ ' and 'Anth. foto nr. 54A [= antheridia photograph number 54A]']; **TRH B16-2456.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 12-15 metres; 13.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2' [almost certainly a collection site number] before collection depth data and '*L. philippii* (delvis [= in part])']; **TRH B16-2457.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 25-26 metres; 24.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2' [almost certainly a collection site number] before depth data and '*L. philippii* nærmer sig [= be close to] f. *crisp.*' and 'Cystoc. [= cystocarpic]'. Collection includes some fragments in a small unmarked box. Grouped with B16-2459 and a collection of f. *crispata* (B16-2496) under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2458.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; 'grundt vand [= shallow water]'; 24.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(1 oder [= or] 3)' [almost certainly a collection site number] and '*L. philippii* paa [= on] *L. frutic.?*' and on one side also 'Cyst. konc. [= cystocarpic conceptacles] 600-900 μ '. Grouped with B16-2458 and a collection of f. *crispata* (B16-2496) under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2459.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 18-22 metres; 17.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '3' [almost certainly a collection site number] before collection depth data and '*L. philippii*

- f.?' and 'squam.?' and 'ell. [= or] *Gon. mam.?*'. Grouped under one entry with a collection of *L. philippii* f. *subdura* (B16-2504) in Adey & Lebednik 1967: 66]; **TRH B16-2460.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Punta St. Eufemia; 'grundt vand [= shallow water]'; 6.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. philippii* f.' and 'Sp. [= sporangia]' and '(Brudstk. [= fragment])'. Annotation slip in box marked 'Sp. konc. [= sporangial conceptacles] 500-600 μ ' and 'Grove porer [= coarse pores] f. *subdura?*'; **TRH B16-2461.**
- Kuckuck; Marokko [= Morocco]; Tangier; collection depths: 1) 17-33 metres, 3a) 15-20 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'paa [= on] *L. fruticosum*' on one side and '*L. philippii* paa [= on] *L. fruticosum* eller blot [= or only] *L. frutic.?*' on the other side. Grouped under one entry in Adey & Lebednik 1967: 67 with three other collections of *L. philippii* (f. *philippii*) (B16-2463, B16-2464, B16-2465), one of *L. philippii* f. *subdura* (B16-2509) and the holotype of *L. philippii* f. *alternans* (B16-2493)]; **TRH B16-2462.**
- Kuckuck; Marokko [= Morocco]; Tangier, nördlich der Stadt [= north of the city]'; collection depth: 17-33 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]' and '*L. philippii* ialfald delvis [= at least partly]'. Locality on box is numbered '1)'. Grouped under one entry in Adey & Lebednik 1967: 67 with three other collections of *L. philippii* (f. *philippii*) (B16-2462, B16-2464, B16-2465), one of *L. philippii* f. *subdura* (B16-2509) and the holotype of *L. philippii* f. *alternans* (B16-2493)]; **TRH B16-2463.**
- Kuckuck; Marokko [= Morocco]; Tangier, nördlich der Stadt [= north of the city]'; collection depth: 17-33 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Anther. konc.? [= antheridial conceptacles]'. Locality on box is numbered '1)'. Grouped under one entry in Adey & Lebednik 1967: 67 with three other collections of *L. philippii* (f. *philippii*) (B16-2462, B16-2463, B16-2465), one of *L. philippii* f. *subdura* (B16-2509) and the holotype of *L. philippii* f. *alternans* (B16-2493)]; **TRH B16-2464.**
- Kuckuck; Marokko [= Morocco]; Tangier; collection depth: 17-33 metres; 14.vi.1901; slide 1571; [no other collection data]; [no pfa]; [Note: box marked 'Smaa sp. konc. [= small sporangial conceptacles]'. Grouped under one entry in Adey & Lebednik 1967: 67 with three other collections of *L. philippii* (f. *philippii*) (B16-2462, B16-2463, B16-2464), one of *L. philippii* f. *subdura* (B16-2509) and the holotype of *L. philippii* f. *alternans* (B16-2493)]; **TRH B16-2465.**
- Mouchez; Mauritania; Côtes de [= coast of] Mauritania, [no other locality data]; [no habitat data]; 1876; slides 1159-1160; ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: box marked '*Lithoph. decussatum* = *Lith. philippii*'. Morocco also is mentioned on the box lid. Adey & Lebednik 1967: 67 omit mention of the collector and of the slides]; **TRH B16-2466.**
- Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; [collected in] littoral region; xii.1904-ii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. philippii?*'. 'Algues marines des Canaries' printed on annotation slip in box. Grouped with B16-2468 and B16-2469 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2467.**
- Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; [collected in] littoral region; xii.1904-ii.1905; slide 1019; [no other collection data]; [no pfa]; [Note: 'Algues marines des Canaries' printed on annotation slips in box. Grouped with B16-2467 and B16-2469 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2468.**
- Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; [collected in] littoral region; xii.1904-ii.1905; slide 1026; [no other collection data]; [no pfa]; [Note: box marked '*L. philippii?*' and 'Anth. konc. [= antheridial conceptacles]'. Grouped with B16-2467 and B16-2468 under one entry in Adey & Lebednik 1967: 66, who also list slide 1026 independently without other data]; **TRH B16-2469.**
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; i.1906; slide 1116; 'Incl. et akv. labor. Arago første dage januar 1906 [= delivered to marine laboratory Arago first days of January 1906, udtaget [= taken out] 15/6 06'; [no pfa]; [Note: box

- marked '*L. philippii* og [= and] *Lithoph. (Derm.) hapal.?*' and '2 konc. [= two conceptacles]'. Grouped with B16-2471 and B16-2472 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2470.**
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; i.1906; slide 1117; 'Indl. et akv. labor. Arago første dage januar 1906, [= delivered to marine laboratory Arago first days of January 1906, udtaget [= taken out] 15/6 06'; [no pfa]; [Note: box marked '*Lithoph. incrustans?* & *Lithoph. expansum?*' and '*Lithoth. philippii?*'. Collection includes one fragment in a small box marked 'konc. [= conceptacles]'. Annotation slip in box marked 'Université de Paris, Laboratoire Arago a Banyuls-sur-Mer (Pyr. Orientales)'. Grouped with B16-2470 and B16-2472 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2471.**
- Sauvageau; [France]; Pyrénées Orientales, Banyuls-sur-Mer; [no habitat data]; i.1906; [no slides]; 'Indl. i et akv. laborat. Arago beg. Jan. 1906, [= delivered to marine laboratory Arago first days of January 1906, udtaget [= taken out] 15/6 06'; [no pfa]; [Note: box marked '*L. philippii?* (jfr. [= cf.] *bornetii*)'. Annotation slip in box marked 'Flerp. konc. [= several-pored conceptacles]' and '*f. crispata?*'. Grouped with B16-2470 and B16-2471 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2472.**
- Sauvageau; Spanien [= Spain]; San Vincent de la Barquera; [no habitat data]; ix.1896; slide 1045; [no other collection data]; [no pfa]; [Note: box marked '*(L. lichenoides) phil.?*' and '*L. philippii?* (jfr. [= cf.])'. Listed in Adey & Lebednik 1967: 66 under *Lithothamnion lichenoides*]; **TRH B16-2473.**
- Vickers; France; Antibes; [no habitat data]; 1900; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 6, fig. 4; [Note: box marked '*Lith. philippii* (& *L. expansum*)']; **TRH B16-2474.**
- Vickers; [Italy]; Neapel [= Naples]; [no habitat data]; 1900; slide 1358; [no other collection data]; [no pfa]; [Note: box marked 'Sp. og (cyst?) konc. [= sporangial and (cystocarpic?) conceptacles]'. Slide marked '*L. philippii* f. *typica*'. Grouped with B16-2476 under one entry in Adey & Lebednik 1967: 67]; **TRH B16-2475.**
- Vickers; Italy; Neapel [= Naples]; [no habitat data]; 1900; slides 1359, 1566-1567; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 1, and Printz 1929, pl. 6, fig. 3; [Note: incorrectly chosen as lectotype in Adey & Lebednik 1967: 67. Additional data — Woelkerling 1993: 171. Box marked 'Obs. hypothall.! [= hypotall.! observed]' and 'Sp. konc. foto nr. 54D [= sporangial conceptacles photograph number 54D]'. One annotation slip in box marked 'Naples, Italy'. Second annotation slip explains why this collection cannot serve as lectotype. Slide 1567 marked with collection data and with '*L. philippii* f. *typica*'. Grouped with B16-2475 under one entry in Adey & Lebednik 1967: 67, who did not record slides 1566-1567]; **TRH B16-2476.**
- Vickers; [Italy]; Neapel [= Naples]; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B16-2477.**
- [Anon.]; [Algeria]; Algier, Abatifon; 'drague [= dredged]'; 10.v.1890; slides 7, 57; [ex] Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], number 7; [no pfa]; [Note: box marked '*Lithophyllum notarisii* Duf.?' and '*L. philippii* = *L. decussatum*' and 'Debr. 1-19 [referring to a group of 19 specimens sent to Foslie]. Slides marked '*L. philippii*' and 'Algier' and 'Herb. Debray nr. 7'. Annotation slip in box marked '*Lithophyllum notarisii* Duf.?' and 'Algier, Abatifon' and 'Drague' and '10. mai [= 10 May] 1890' and '7'. Grouped with B16-2480 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2479.**
- [Anon.]; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; [ex] Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], number 21; [no pfa]; [Note: box marked 'Vistn. [= probably] *L. philippii* ~~*L. decussatum*~~ f.?''. Annotation slip in box marked '*L. philippii?*' and 'Steril [= sterile]'. Grouped with B16-2479 under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2480.**
- [Anon.]; [Algeria]; Algier, Matison [but see Note]; 'drague [= dredged]'; 10.v.1890; [no slides]; ex herb. Debray [AL, according to Stafleu & Mennega 1998: 130], number 19; pfa: Printz

- 1929, pl. 6, fig. 2; [Note: annotation slip in box marked '*Litho.*' and 'Algier, Abatifon' [not Matison as on box lid] and 'Drague' and '10. mai [= 10 May] 1890' and '19']; **TRH B16-2481.**
- [Anon.]; [France]; Villefranche s/m [= Villefranche-sur-Mer]; [no habitat data]; [no date]; slide 965; comm. J. Chalon, 1905; [no pfa]; [Note: box and slide marked '*Lith. philippii?*'. Collection not included in Adey & Lebednik 1967]; **TRH B16-2482.**
- [Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; [no date]; slide 1569; comm. Prof. Dr Spyridion Miliarakis; [no pfa]; [Note: box marked '*L. philippii* f. *crisp.* (og [= and] *L. fruticul?*)'. One annotation slip in box marked 'Strukt. ligner [= structure resemble] f. *crispata*'. Another annotation slip marked 'Ingen *phil.* konc. [= without *phil.* conceptacles]' [the meaning of *phil.* is uncertain but is likely to refer to the species epithet *philippii*]. Adey & Lebednik 1967: 67 mistakenly list 'Miliarakis' as the collector]; **TRH B16-2483.**
- [Anon.]; [Italy]; Gulf of Naples; collection depth: 30-80 metres; [no date]; [no slides]; comm. Zool. St. Neapel [= Naples]; [no pfa]; [Note: collection listed in Adey & Lebednik (1967: 67) but not found during present study]; **TRH B16-2484.**
- [Anon.]; [Italy]; Neapel [= Naples]; collection depth: 30-80 metres; 1896; slide 513; comm. Zool. St.; [no pfa]; [Note: box marked 'Vistnok [= probably] *L. philippii*'. Slide marked '*G. notarisii?* *phil.*' and 'Neapel' and '40-80 metres' and '1896' and 'Zool. St.'. Annotation slip in box marked 'Struktur og konc. i snit ligner *Goniol.* [= structure and conceptacles in cut resemble *Goniol.*']; **TRH B16-2485.**
- [Anon.]; [Italy]; Neapel [= Naples]; [no habitat data]; 1900; slide 774; ex herb. Biol. Anstalt Helgoland (1902); [no pfa]; [Note: box marked '*Lithophyllum decussatum* Foslie oder [= or] *Hyperantherella decussata* Heydrich – Neapel 1900" scr. Heydrich = *L. philippii* f. *subdura?*' and '*cyst* [= cystocarpic]" scr. Heydr.'. Annotation slip in box marked '- og liden skorpe af *Lithoph. incrustans* mk. x [= and small crust of *Lithoph. incrustans* marked x]' and 'Præp. [= slide] 774'. No specimen marked 'x' is in the box]; **TRH B16-2489.**
- [Anon.]; [Italy]; Neapel [= Naples]; 'paa [= on] *L. fruticul.?*'; [no date]; slides 54-55, 59 [missing]; comm. Zool. St. [Naples]; [no pfa]; [Note: box marked '*L. fruticosum* præp. [= slide] 59 og [= and] *L. fruticosum* ell. [= or] *L. philippii* paa [= on] *L. fruticul.?*' and 'Præp. 54-55 + afkalket konc. tag [= slides 54-55 + decalcified conceptacles taken]' but annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Slides 54-55 marked '*L. fruticosum?* (ell. [= or] *L. philippii* paa [= on] *L. fruticul.?*)' and 'coll. Zool. St.'. Collection not included in Adey & Lebednik 1967]; **TRH B16-2486.**
- [Anon.]; [Italy]; Neapel [= Naples]; collection depth: 30-80 metres; [no date]; [no slides]; comm. Zool. St. [Naples], 1895; [no pfa]; [Note: **Lectotype** of *Lithothamnion philippii* Foslie. Additional data — Woelkerling 1993: 171, and Woelkerling & Verheij 1995: 69, and Cabioch & Mendoza 1998: 215]; **TRH B16-2487.**
- [Anon.]; [Italy]; Neapel [= Naples]; [no habitat data]; [no date]; [no slides]; ex herb. Hauck [L]; [no pfa]; [Note: box marked 'Neppe cyst. konc. [= probably not cystocarpic conceptacles]']; **TRH B16-2488.**
- [Anon.]; [Spain]; Iles Baleares [= Balearic Islands], côte N.W. de Cabrera [= northwest coast of Cabrera Island]; [no habitat data]; 13.viii.1903; [no slides]; comm. Pruvot-Chalon; [no pfa]; [Note: box marked 'steril! [= sterile!]' and '*L. philippii* forma (partim [= in part])?' and 'Brudst. af stort ekspl. [= fragment of large specimen]'. Collection not included in Adey & Lebednik 1967]; **TRH B16-2492.**
- [Anon.]; [Spain]; Iles Baleares [= Balearic Islands], côte E de Minorque [= east coast of Minorca], au pied du cap Caballeria [= at the base of Cape Caballeria]; collection depth: 92 metres; 25.vii.1904; slide 1570; comm. Pruvot-Chalon; [no pfa]; [Note: box marked 'Brudst. m/konc. [= fragment with conceptacles]' and 'Præp. [= slide] 1570' and 'ekspl. konc. i papir [= specimen with conceptacles in paper]'. Adey & Lebednik 1967: 67 mistakenly list 'Pruvot-Chalon' as the collector and '1903-4' as the collection date]; **TRH B16-2491.**

philippii, *Lithothamnion* (f. *alternans*) [originally described as *Lithothamnion philippii* f. *alternans* (Foslie 1907b: 17), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 67 under species without mention of forma].
Holotype: TRH, B16-2493 (see below).

Kuckuck; Marokko [= Morocco]; Tangier, nórdlich Monte de Direction [= north of Mt Direction]; collection depth: 15-20 metres; 14.vi.1901; slide 783 and two unnumbered slides prepared after Foslie's death; [no other collection data]; pfa: Printz 1929, pl. 6, figs 8-9; [Note: **Holotype** of *Lithothamnion philippii* f. *alternans* Foslie. Additional data — Woelkerling 1993: 24 and Cabioch & Mendoza 1998: 213 (as *Mesophyllum alternans*). Collection consists of one larger box and two small boxes housed in a newer brown box. Specimens in larger box each wrapped in paper. One specimen marked 'fig. 8', one specimen marked 'fig. 9', one specimen with an annotation slip marked 'Small uniporate conceptacles' and one specimen with an annotation slip marked 'Ingen [= without] conceptacles'. Larger box marked 'Ekspl. x cyst. konc. [= specimen x cystocarpic conceptacles]' and '(nærmer sig. [= approach to] *L. lichen.*)' and 'sp. konc. foto. nr. 54E [= sporangial conceptacles photograph number 54E]'. Locality on box is numbered '3a'. Annotation slip inside larger box marked 'NB. ekspl. hvoraf præp. nærmer sig m. til *L. lichen.* især hens. konc., men struktur ogsaa afvigende fra *phil.* [= NB. specimen on slide is nearer to *L. lichen.* especially according to conceptacles, but structure also differs from *phil.*]. One small box marked 'Præp. [= slide] 783' contains several fragments. Second small box unmarked and contains one fragment. Unsigned annotation slips with slides marked with collection data and with '*Mesophyllum alternans* (Foslie) comb. nov. Cabioch + Mendoza, 1996'. Grouped under one entry in Adey & Lebednik 1967: 67 with four collections of *L. philippii* (f. *philippii*) (B16-2462, B16-2463, B16-2464, B15-2465) and one of *L. philippii* f. *subdura* (B16-2509)]; **TRH B16-2493.**

philippii, *Lithothamnion* (f. *crispata*) [originally described as *Lithothamnion crispatum* (Hauck 1878: 289). Then (Hauck 1883a: 270) transferred without change in rank into *Lithophyllum*, and then (Foslie 1898a: 3) into *Archaeolithothamnion*. Later (Foslie 1904d: 13) transferred back into *Lithothamnion*, reduced to the rank of forma, and treated as *Lithothamnion philippii* f. *crispata*, where Foslie retained it in publication. Specimens in Foslie herbarium are named either '*L. crispatum*' (noted in entries below) or *L. philippii* f. *crispata*. Collections listed in Adey & Lebednik 1967: 66-67 under *Lithothamnion crispatum* or under *Lithothamnion philippii* without mention of forma]. **Lectotype:** L, 943.7-75 (Woelkerling & Verheij 1995: 44).

Hauck [but see Note]; [Croatia]; Adria [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. crispatum*?' and 'Kjellm. & Aresch.' and 'Wittr.']. Hauck's name appears after the locality name but is not explicitly listed as collector. Collection listed under *Lithothamnion crispatum* in Adey & Lebednik 1967: 66]; **TRH B16-2427.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], [Brioni Islands], zwischen [= between] Astorga und [= and] Due Sorelle; collection depth: 30-31 metres; 14.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: locality on box is numbered '4']. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B16-2495.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], Punta St. Eufemia; 'grundt vand [= shallow water]'; 6.xi.1899; slide 624; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]' and 'skjævt snit [= oblique cut]'. Collection not included in Adey & Lebednik 1967]; **TRH B16-2494.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 25-26 metres; 24.v.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked

- '2)' [almost certainly a collection site number] before depth data and '*L. philippii* fere [= nearly] f. *crispata*'. Grouped with two collections of *L. philippii* (f. *philippii*) (B16-2458, B16-2459) under one entry in Adey & Lebednik 1967: 66; **TRH B16-2496**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Val di Bora; 'grundt vand [= shallow water]'; 10.xi.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 6, fig. 6; [Note: grouped with a Kuckuck Val di Bora collection of f. *subdura* (B16-2508) under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2497**.
- Lichtenstern; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 28 metres; [no date]; slide 56 and one unmarked slide in a cardboard holder; ex herb. Bot. Mus. Wien [W]; pfa: Printz 1929, pl. 6, fig. 7; [Note: box marked '*L. crispatum* Hauck'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Annotation slip with unmarked slide reads '*Li. philippi* f. *crispata*, *L. crispatum*' and 'Hauck' and 'Rovigno' and '28 metres' and 'ex herb. Bot. Mus. Wien [W]'. Collection listed under *Lithothamnion crispatum* in Adey & Lebednik 1967: 66, who mistakenly list the collector as 'Hauck'. Addition information on collection provided by Cabioch & Mendoza 1998: 215, 217]; **TRH B16-2428**.
- Vickers; [Italy]; Neapel [= Naples]; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. crispatum*' and 'sp. konc. [= sporangial conceptacles]'. Collection listed under *Lithothamnion crispatum* in Adey & Lebednik 1967: 66]; **TRH B16-2429**.
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; slide 1509; [no other collection data]; [no pfa]; [Note: annotation slip in box with cell measurements also marked 'Ingen konc. [= without conceptacles]'. Grouped under one entry in Adey & Lebednik 1967: 66 with a collection of *L. philippii* f. *subdura* (B16-2511). Adey & Lebednik 1967: 66 indicate that three boxes occurred but only two were found]; **TRH B16-2498**.
- [Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; 1897 [but see Note]; [no slides]; comm. Prof. Dr Spyridion Miliarakis; [no pfa]; [Note: box marked '*L. crispatum?*'. It is unclear whether 1897 is the collection date, or the date the collections was sent to Foslie, or both. Collection listed under *Lithothamnion crispatum* in Adey & Lebednik 1967: 67, who mistakenly list 'Miliarakis' as the collector]; **TRH B16-2430**.
- [Anon.]; Monaco; Middelhavet [= the Mediterranean], [no other locality data]; [no habitat data]; [no date]; two slides numbered 1033; comm. Hariot [PC], 1906, collection number 2; [no pfa]; [Note: box marked '*L. philippii* f. *crispata?*' and 'Konc. [= conceptacles] 600-700 μ '. Annotation slip in box marked 'Sp. konc. [= sporangial conceptacles] 500-700 μ ' and 'Ikke typisk [= not typical]'. Grouped with B16-2490 and B16-2500 under one entry in Adey & Lebednik 1967: 67, who mistakenly list 'Hariot' as the collector and who list the collection dates as '1906, 1907']; **TRH B16-2499**.
- [Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot [PC], vi. 1906, collection number 10; [no pfa]; [Note: box marked '*L. philippii?*' and 'Cyst. konc.? [= cystocarpic conceptacles?]. Grouped with B16-2499 and B16-2500 under one entry in Adey & Lebednik 1967: 67, who mistakenly list 'Hariot' as the collector and who list the collection dates as '1906, 1907']; **TRH B16-2490**.
- [Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot, 1907, collection number 8, Mus. d'hist. Nat. Paris [PC]; [no pfa]; [Note: grouped with B16-2490 and B16-2499 under one entry in Adey & Lebednik 1967: 67, who mistakenly list 'Hariot' as the collector and who list the collection dates as '1906, 1907']; **TRH B16-2500**.
- philippii*, *Lithothamnion* (f. *subdura*)** [originally described as *Lithothamnion philippii* f. *subdura* (Foslie 1904d: 14), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 66-67 under species without mention of forma]. **Lectotype:** TRH, B16-2502 (see below).

- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioniske øer [= Brioni Islands]; collection depth: 10-30 metres; 11.vi.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '1b)' [almost certainly a collection site number] before collection depth data and '*L. philippii* f. *subdura?*'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with seven collections of *L. philippii* (f. *philippii*) (B16-2445, B16-2446, B16-2447, B16-2448, B16-2449, B16-2450, B16-2451) under one entry in Adey & Lebednik 1967: 67, who explicitly report the collection date but list only one collection depth (25 metres) and only one collection site number (4B). Adey & Lebednik report seven boxes (including B16-2501), but eight were found. Another 11.vi.1895 collection of *L. philippii* f. *subdura* (B16-2502) with a collection depth of 30-37 metres was listed separately in Adey & Lebednik 1967:66, but without explicit mention of the date]; **TRH B16-2501.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionsike øer [= Brioni Islands]; collection depth: 30-37 metres; 11.vi.1895; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 2; [Note: **Lectotype** of *Lithothamnion philippii* f. *subdura* Foslie. Additional data — Woelkerling 1993: 209. Collection consists of two older round boxes housed in a square brown box. Both boxes have basic collection data, are marked '2)' before collection depth data, and have an annotation slip marked 'Ingen konc. [= without conceptacles]'. One round box marked '(Brudst. [= fragments])' and the other with the pfa data. The two boxes reported by Adey & Lebednik 1967: 66 have been united into one collection. Adey & Lebednik 1967: 66 omit mention of collection date but report the collection depth]; **TRH B16-2502.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brioni [= Brioni Islands], zwischen [= between] Klein Asino und [= and] St. Andrea; collection depth: 23-30 metres; 4.xi.1899; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 1, fig. 3; [Note: box marked 'Brudstk. koncept. [= fragments conceptacles]'. Locality on box is numbered '3a)'. Grouped in Adey & Lebednik 1967: 66 with a Kuckkuck collection of *L. philippii* (f. *philippii*) (B16-2452)]; **TRH B16-2503.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], nordwestl. sehr nahe bei [= north-westerly very close to] Bagnole [Island]; collection depth: 20-30 metres; 1.v.1895; slide 622; [no other collection data]; pfa: Printz 1929, pl. 6, fig. 5; [Note: box marked 'Sp. koncept. [= sporangial conceptacles]'. Locality on box is numbered '2)']; **TRH B16-2506.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 18-22 metres; 17.xii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '3' [almost certainly a collection site number] before collection depth data and 'sp. [= sporangial]'. Grouped under one entry with a collection of *L. philippii* (f. *philippii*) (B16-2460) in Adey & Lebednik 1967: 66]; **TRH B16-2504.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; collection depth: 23-30 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4)' [almost certainly a collection site number] before collection depth data and '*L. philippii* (f. *subdura?*)']; **TRH B16-2505.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], Östl. von [= east of] St. Andrea; collection depth: 33 metres; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. philippii* f. *subdura?*' and '& *L. phil.* f.?' and 'delvis [= in part] *Phym. polym.* og [= and] *squam.?*' and 'delvis cystoc.[= in part cystocarpic]'. Locality on box is numbered '1)']; **TRH B16-2507.**
- Kuckkuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Val di Bora; [no habitat data]; 10.xi.1899; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked '*L. philippii* f. *subdura?*' and 'Sp. [= sporangia]'. Slide prepared after Foslie's death. Grouped with a collection of f. *crispata* (B16-2497) under one entry in Adey & Lebednik 1967: 66]; **TRH B16-2508.**
- Kuckkuck; Marokko [= Morocco]; Tangier; collection depths: 1) 17-33 metres, 3a) 15-20 metres; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L.*

philippii f. *subdura*?' and 'Konc. [= conceptacles]'. It is unclear whether one or both collection depths apply. Grouped under one entry in Adey & Lebednik 1967: 67 with four collections of *L. philippii* (f. *philippii*) (B16-2462, B16-2463, B16-2464, B15-2465) and the holotype of *L. philippii* f. *alternans* (B16-2493); **TRH B16-2509**.

Sauvageau; Espagne [= Spain]; Port Lligat près de [= near] Cape Crew; [no habitat data]; 4.i.1907; slide 1332; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. fotogr. nr. 54B [= cystocarpic photograph number 54B]' and 'Præp. 1332 cyst. ekspl. ved x [= slide 1332 cystocarpic specimen at x]'. Box contains one fragment in a packet marked '54B']; **TRH B16-2510**.

Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; slide 1508; [no other collection data]; [no pfa]; [Note: grouped under one entry in Adey & Lebednik 1967: 66 with a collection of *L. philippii* f. *crispata* (B16-2498). Adey & Lebednik 1967: 66 indicate that three boxes occurred but only two were found]; **TRH B16-2511**.

prolifer, Lithothamnion [originally described as *Lithothamnion prolifer* (Foslie 1904b: 18), but not mentioned in Foslie's subsequent publications]. **Lectotype: L**, 943.7-40 (Verheij & Woelkerling 1992: 282).

[Weber-van Bosse]; [Indonesia]; Borneo Bank, Lumu-Lumu shoal; [no habitat data]; 10-11.vi.1899; one slide labelled with Siboga Expedition collection number 139; Siboga Expedition, station 78, collection 139; pfa: Foslie 1904b, pl. 1, fig. 18; [Note: **Isolectotype fragment** of *Lithothamnion prolifer* Foslie. Additional data — Verheij & Woelkerling 1992: 282 and Woelkerling 1993: 176. Isolectotype also illustrated in Printz 1929, pl. 8, fig. 13. Lectotype in **L** studied by Keats et al. 1996: 193]; **TRH B16-2512**.

[Weber-van Bosse]; [Indonesia]; Borneo Bank, Lumu-Lumu shoal; [no habitat data]; 10-11.vi.1899; one slide labelled with Siboga Expedition collection number 146; Siboga Expedition, station 78, collection 146; pfa: Foslie 1904b, pl. 1, fig. 17; [Note: **Lectotype fragment** of *Lithothamnion prolifer* Foslie. Additional data — Verheij & Woelkerling 1992: 282, Woelkerling 1993: 176, and Verheij 1994: 119. Lectotype also illustrated in Printz 1929, pl. 8, fig. 12. Box marked 'Foto. sp. [= photographed sporangia]'. Collection includes one fragment in a packet marked 'S.E. 146, st. 78' and '*L. proliferum*' and Foto. nr. 57 [= photograph number 57]' and 'sp. [= sporangia]'. Lectotype in **L** studied by Keats et al. 1996: 193]; **TRH B16-2513**.

[Weber-van Bosse]; [Indonesia]; Borneo bank, Pulu Sebangkatan; [no habitat data]; 14.vi.1899; two slides labelled with Siboga Expedition collection numbers 971a and 971d; Siboga Expedition, station 81, collections 971a, d; pfa: Foslie 1904b, pl. 1, figs 19-20; [Note: box incorrectly flagged by Adey & Lebednik 1967: 67 as type material. Additional data — Verheij & Woelkerling 1992: 282. Large round box contains two small round boxes marked with collection information. One small box also marked 'Siboga Exp. 971a, stat. 81' and 'pl. 1, figs 19-20'. Other small box also marked 'Siboga Exp. 971a, stat. 81'. Adey & Lebednik 1967: 67 report that four slides were present but only two were found]; **TRH B16-2514**.

ruptile, Lithothamnion [originally described as *Lithothamnion syntrophicum* f. *ruptilis* (Foslie 1905e: 18) but subsequently (Foslie 1907a: 5) raised to the rank of species, namely *Lithothamnion ruptile*]. **Holotype: TRH**, B16-2515 (see below).

Bock; St. Domingo [= Dominican Republic]; Pto. Plata [= Puerto Plata]; [no habitat data]; 1894; slides 676-677; ex herb. Bot. Mus. Hamburg [**HBG**]; pfa: Printz 1929, pl. 5, figs 20-24; [Note: **Holotype** of *Lithothamnion syntrophicum* f. *ruptilis* Foslie. Additional data — Woelkerling 1993: 193. Box marked '(*L. philippii* f. *crispate*) *L. syntrophicum* f. *ruptilis* = *L. ruptile*' and 'Foto. sp. [= photographed sporangia]' and 'Fotogr. [= photography] = Fig. 1, 3-5, 7 B.M. Hamb.' and 'fig. 2 og [= and] 6 Herb. M.F.' and 'Lith. Monogr. pl. 5, fig. 20-24

(fig. 2 = fig. 21)'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH B16-2515**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Jan, udfør [= outside] Cruxbay [= Cruz Bay]; [no habitat data]; 6.iii.1906; slide 1229; Børgesen collection number 1826; pfa: Printz 1929, pl. 5, fig. 25; [Note: box marked '*Lithoth. syntrophicum* f. *ruptilis-ruptile*'. Collection includes fragment wrapped in piece of paper marked 'Sp. konc. [= sporangial conceptacles]']; **TRH B16-2516**.

Børgesen; Vestindien [as used by Børgesen = Danish West Indies, now the U.S. Virgin Islands]; St. Thomas, vest for [= west of] Water Island; [no habitat data]; 23.xii.1905; slide 1207; Børgesen collection number 2033; [no pfa]; [Note: box marked '*L. syntrophicum* f. *ruptilis ruptile* (og [= and] *L. fruticul.*?)']; **TRH B16-2517**.

synanablastum*, *Lithothamnion [originally described as *Lithophyllum synanablastum* (Heydrich 1897a: 54), where Foslie retained it in publication]. **Type:** apparently not designated, and original material probably destroyed (Stafleu & Cowan 1979: 187). There is no syntype material in **TRH**.

Note: During the present study, three photos marked *L. synanablastum* were found in Drawer B16. One was numbered 52, a second 52B and the third unnumbered. Because the numbers on the photos differ from those on B16-2518, and because all are of high magnification and could not be linked to specimens in B16-2518, they have not been included in that collection. Instead, the photos have been placed in an envelope in B16 and labelled 'Photos marked *L. synanablastum* that could not be linked to material in B16-2518'.

Weber-van Bosse; Sydaf. [= South Africa]; Port Nolloth (eller [= or] Knysna?), (nær [= near] Cape); [no habitat data]; ix.1894; slides 708-709; [no other collection data]; pfa: Printz 1929, pl. 5, figs 12-14; [Note: collection consists of one larger box and two small boxes housed in a brown box. Large box marked with collection data and with 'Fotogr. sp. & cyst. nr. 50A, B, C [= photographed sporangial & cystocarpic [plants] numbers 50A, B, C]'. Large box contains one annotation slip marked 'Ikke indlagt i kapsler [= not inlaid in capsules]', a second slip marked 'Sp. konc. [= sporangial conceptacles]', a third slip marked 'Cyst. konc. [= cystocarpic conceptacles]' and a specimen in a plastic bag with a fourth slip marked 'Ingen sporer [= without spores]'. Both slides marked 'Port Nolloth'. One small box with one small specimen is marked 'Præp. [= slide] 708' and has an annotation slip marked 'ingen sporer [= without spores]'. The other small box has fragments, is marked 'Præp. [= slide] 709' and has an annotation slip marked 'Udelte sp. [= undivided sporangia]']; **TRH B16-2518**.

syntrophicum*, *Lithothamnion [originally described as *Lithothamnion syntrophicum* (Foslie 1901a: 6), where Foslie retained it in publication]. **Holotype:** **TRH**, B16-2525 (see below).

Note: During the present study, a photo marked *L. syntrophicum* was found in Drawer B16 but could not be linked to any collection of that species. The photo has been placed in an envelope and labelled 'Photo marked *L. syntrophicum* that could not be linked to material in Drawer B16'.

Howe; Bermuda [as Bermuda Islands]; Harrington Sound; on stones just below low water mark; 18.vi.1900 [but see Note]; one slide labelled with Howe collection number 151; [no other collection data]; [no pfa]; [Note: large round box lid marked 'New York Bot. Garden' **[NY]**. Annotation slip in large round box is printed with 'Bermuda Algae' and 'collected in the Bermuda Islands, by M.A. Howe, June 5. – July 7, 1900', but the hand-written collection data includes notation '2 sp.? [= 2 sporangia?]' and lists collection date as '18.v.1900'

Collection includes two fragments in a small round box marked '151' and 'Konc. [= conceptacles]'; **TRH B16-2519.**

Howe; Jamaica; Gun Cay, near Kingston Harbor; [no habitat data]; 20.xii.1906; slide 1388; [Howe collection number] 4625; [no pfa]; [Note: box marked 'N.Y.B.G. nr 4625' **[NY]**.

'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in box. Slip also marked with locality and habitat data. Slide marked '*Lithoth. syntrophicum*' and 'Vestindien, Jamaica' and 'NYBG 4625' and 'leg. M.A. Howe'; **TRH B16-2521.**

Howe; Jamaica; [no other locality data]; near low water mark; 29.xii.1906; slides 1401-1402; [Howe collection number] 4736b; [no pfa]; [Note: box marked 'N.Y.B.G. nr 4736b' **[NY]** and 's. med ell. overv. af [= mixed with or overgrown by] *Gon. notarisii* and 'Præp. [= slides] 1401-1402 blandt [= among] *G. not.*'. 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' **[NY]** printed on slip in box. Slip also marked with locality and habitat data. Collection was derived from A10-471 (filed under *Goniolithon accretum*); **TRH B16-2520.**

Howe; Puerto Rico; San Juan; on rocks in 5 dm (decimetres) of water; 2.vi.1903; one slide labelled with Howe collection number 2295d; [no other collection data]; [no pfa]; [Note: box lid marked 'New York Bot. Garden' **[NY]**. One annotation slip in box with some handwritten collection data also is marked '2 or 3 species?' and has printed legend 'New York Botanical Garden, North American Marine Algae'. A second slip is marked 'Ingen konc. [= without conceptacles]'; **TRH B16-2522.**

Howe; Puerto Rico; San Juan; [no habitat data]; 2.vi.1903; one slide labelled with Howe collection number 2295c; [no other collection data]; [no pfa]; [Note: box lid marked 'New York Bot. Garden' **[NY]**]; **TRH B16-2523.**

Howe; Puerto Rico; San Juan, Santurce; on stone in tide-pool; 27.v.1903; one slide labelled with Howe collection number 2196; [no other collection data]; [no pfa]; [Note: box lid marked 'New York Bot. Garden' **[NY]** and 'Fotogr. & Præp. [= photograph & slide]'. Box and slide marked '*Lith. syntrophicum* forma?'. One annotation slip in box with some handwritten habitat data also marked '(pink when living)' and also imprinted with 'New York Botanical Garden North American Marine Algae'. Another slip in box marked 'Ingen konc. [= without conceptacles]'. A photo marked 'Nr. 2196' was found in Drawer B16 but could not be matched with material in B16-2524. It has been placed in a separate envelope in B16 marked 'New York Bot. Garden. nr. 2196' and '*Lithoth. syntrophicum* forma?'; **TRH B16-2524.**

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; i.1881 [but see Note]; slides 487, 838-839; [comm.] herb. Farlow **[FH]**, [number] XIII (1900); pfa: Printz 1929, pl. 5, figs 18-19; [Note: **Holotype** of *Lithothamnion syntrophicum* Foslie. Additional data — Woelkerling 1993: 219. Box marked 'Fotogr. sp. [= photographed sporangia]'. The three slides are dated 'Jan. 1879' and not '1881' as on box cover. Slide 487 marked '*Lithoth. syntrophicum*', slide 838 marked '*Lithoth. syntrophicum*' and 'Tversn. af skorpe [= cross-section of crust]' and slide 839 is marked '*Lithoth. syntrophicum*' and 'Snit *Serpula* rør med skorpe [= cut *Serpula* tube with crust]'; **TRH B16-2525.**

***syntrophicum*, *Lithothamnion* (f. *ruptilis*).** See listing above for *ruptile*, *Lithothamnion*

Inadequately documented collections. The following two inadequately documented collections were found in Drawer B16 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists specimens/fragments housed in an unmarked original round box housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B16-3861.**

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH B16-3862.**

Case B, Drawer 17

During the present study, three loose notes were found that could not be matched to any collection. These have been placed in an envelope marked 'Loose notes found in Drawer B17 that could not be matched to any collection'. In addition, some photos with species names were found, but the photos could not be linked to particular collections. They have been placed in envelope marked 'Loose photos found in B17 that could not be matched with any specimens'.

antarcticum, Lithothamnion [originally described as *Melobesia verrucata* var. *antarctica* (J.D. Hooker & W.H. Harvey in Harvey & Hooker 1847a: 482). Subsequently (W.H. Harvey 1849a: 111) raised to the rank of species within *Melobesia*, namely *M. antarctica*, then (Rosanoff 1866a: 85) transferred without change of species rank into *Lithophyllum*, then (Foslie 1898b: 7) transferred into *Lithothamnion* and reduced to the rank of forma, as *Lithothamnion lichenoides* f. *antarctica*, then (Foslie 1900a: 13) re-elevated to the rank of species within *Lithothamnion*, namely *L. antarcticum*, then (Foslie 1900f: 70) then reduced again to *Lithothamnion lichenoides* f. *antarctica*, and then (Foslie 1907c: 3) again re-elevated to *Lithothamnion antarcticum*. Foslie (1908c: 270) rejected the proposal of Heydrich (1907: 223) to reduce *L. antarcticum* to a forma of *L. patena*, namely *Lithothamnion patena* f. *antarctica*. May & Woelkerling (1988: 68-69) examined the type of *Melobesia verrucata* var. *antarctica* and concluded that it is conspecific with *Synarthrophyton patena*]. **Lectotype: BM**, unnumbered (May & Woelkerling 1988: 68).

Dusén; [Argentina]; Ildlandet [= Tierra del Fuego Archipelago], Tierra del Fuego [Island], nära Rio Grande mynning [= near the mouth of the Rio Grande]; 'uppkastad på hafstrand [= washed ashore on beach]'; 21.i.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. lichenoides* f.? *antarctica*'. Grouped with B17-2527 under one entry in Adey & Lebednik 1967: 68. Adey & Lebednik record three boxes, two of which belong to one collection]; **TRH B17-2526.**

Dusén; [Argentina] [but see Note]; Ildlandet [= Tierra del Fuego Archipelago], [no other locality data]; [no habitat data]; 21.i.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection contains two small boxes. One box marked '*L. antarct.*' and 'Cyst konc. foto nr. 61B [= cystocarpic conceptacles photograph number 61B]' and second box marked '*L. antarct.*' and 'Sp. konc. foto nr. 61C [= sporangial conceptacles photograph number 61C]'. Argentina is presumed here to be the correct country on the basis that this material bears the same date as B17-2526, which was collected near the mouth of the Rio Grande (located in Argentina). Grouped with B17-2526 under one entry in Adey & Lebednik 1967: 68. Adey & Lebednik record three boxes, of which two belong to one collection]; **TRH B17-2527.**

Hariot; Terre de Feu [=Tierra del Fuego Archipelago], [country uncertain]; _____ Bay [see Note]; [no habitat data]; v.1883; slide 1351; [ex] Herb. Mus. Paris' [**PC**], 1903; [no pfa]; [Note: box marked '*Lithoph. amplexifrons* (Harv.)? ad frondes et stipites algarum [= on algal fronds and stipes] P. Hariot' and '*Lithoth. antarct.*? Steril [= sterile]'. '1351 ligner præp. 947 [= 1351 looks like slide 947]'. Slide 947 is part of B17-2531. Slide marked 'Terre de la Feu' and '1903' and 'Mus. Paris'. The name of the Bay in which the specimen was found

is unclearly written and could be 'Mozell' or 'Nogett' or 'Noggat' or 'Hogett', none of which are explicitly cited in Hariot (1889)]; **TRH B17-2528.**

[Hooker, J.D.]; [Chile]; Cap Horn, Hermite Island; [no habitat data]; [no date]; slide 1356; ex herb. T.C. Dublin [**TCD**], box marked with the number '8'; [no pfa]; [Note: **Isolectotype** of *Melobesia verrucata* var. *antarctica* J.D. Hooker & W.H. Harvey. Additional data — Woelkerling 1993: 28. The name of the collector is not on the box but is stated in the original publication. Slide marked with species name and with 'Tegning! [= drawing!']; **TRH B17-2529.**

Krone; Auckland [Islands]; [no other locality data]; 'in' *Ballia callitricha*; 1874; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Rabenhorst, *Algen Europas* 2520' and '*Melobesia antarctica* Hook. Crypt. Antarct. p. 176 [= Harvey & Hooker 1847b]']; **TRH B17-2530.**

Skottsberg; Falklandsøerne [= Falkland Islands]; Port Williams; collection depth: 22 fathoms (39 metres), 'paa [= on] *Ballia*'; 4.vii.1902; slide 947; Swedish South Polar Expedition, 1901-1903, station 33; [no pfa]; [no notes']; **TRH B17-2531.**

[Anon.]; New Zealand; southern [part]; [no habitat data]; [no date]; slide 1518; ex herb. W.G. Farlow [**FH**], [comm.] 1907, [specimen] E; [no pfa]; [Note: box marked '*Melobesia antarctica* Harv.?' and 'Vix nisi var. *Mel. patenae*' and 'comm. J.G. Agardh.' [**L**]. The material probably was sent to Farlow by J.G. Agardh, who in turn sent it to Foslie. Annotation slip from Farlow in box marked '*Melobesia antarctica*' and 'au *Lith. lichenoides*'; **TRH B17-2532.**

[Anon.]; New Zealand; southern [part]; [no habitat data]; [no date]; slide 1039; [no other collection data]; [no pfa]; [Note: box marked '*Melob. antarctica*?'. Annotation slip in box marked 'Algae Muellerianæ' and 'Curante J.G. Agardh distributed' and '*Melob. antarctica* Harv.?' and 'vix nisi var. *Mel. Patenae*' and 'southern New Zealand']; **TRH B17-2533.**

[Anon.]; New Zealand; west coast; [no habitat data]; [no date]; [no slides]; ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*Lith. capense* (det. Born.?)' and '= *Lithoth. antarct.*']; **TRH B17-2534.**

capense, *Lithothamnion* [originally described as *Lithophyllum capense* (Rosanoff 1866a: 86), but then (Foslie 1898b: 7) transferred without change of rank into *Lithothamnion*, as *L. capense* and retained under that name by Foslie in subsequent publication. Foslie (1908c: 270) rejected the proposal of Heydrich (1907: 223) to reduce *L. capense* to a forma of *L. patena*, namely *Lithothamnion patena* f. *capense*]. **Lectotype: CN**, Lenormand Herbarium, Hohenacker specimen 236 in *Algae Marinae Siccatae* (Chamberlain in Woelkerling & Verheij 1995: 38, Chamberlain 2000: 376).

Oliver; [South Africa]; Cape of Good Hope; on *Gelidium cartilagineum*; 21.ix.1872; slide 1515; ex herb. Farlow [**FH**], [comm.] Farlow, 1907, [specimen] A; [no pfa]; [Note: collection includes three annotation slips. One is marked '2 koncept. længste stk. [= two conceptacles longest piece]', the second is marked 'Konc. 500-600µ, nedtrykt i midten men ikke fuldt saa høie som ekspl. præp. 732 [= conceptacles 500-600µ, depressed in the middle but not as high as specimen on slide 732]', and the third includes habitat data. Slide 732 is in B17-2538]; **TRH B17-2535.**

Zeyher; [South Africa]; Algoa Bay; 'in *Gel. cartilagineum* + *corneum*'; [no date]; slide 1522; [ex] herb. Areschoug [**S**], 1907; [no pfa]; [Note: collection consists of one slide and five annotation slips. Collection data are on slide and one slip both of which are also marked '*Melobesia patena* Hook. et Harv.' and '= *Lith. capense*'. Another annotation slip with drawings is marked '*L. capense*'. Remaining slips have measurement information for cystocarpic conceptacles, sporangial conceptacles and thallus thickness]; **TRH B17-2537.**

[Anon.]; [South Africa]; Kap G. Haab [= Cape of Good Hope]; 'paa [= on] *Gelidium cartilagineum*'; [no date]; [no slides]; 'af [= out of] Sommerfelt's herb.' [algae at **C**, according to Koster 1969: 557]; pfa: Printz 1929, pl. 10, fig. 2; [no notes]; **TRH B17-2536.**

[Anon.]; Sydafrika [= South Africa]; [no other locality data]; 'paa [= on] *Sphaer. cartilag.*'; [no date, but see Note]; slide 732; ex [herb.] Brit. Mus. 1900, (Pulteney's herb.) [BM]; [no pfa]; [Note: collection consists of a dried specimen on an herbarium sheet and material in a small round box. Herbarium sheet marked 'Pulteney's Herbarium, Nov. 1863' and 'ex herb. Brit. Mus.' and 'præp. [= slide] 732' and '*Fucus cartilagineus*' and 'Lin Syst. 719 [= Linnaeus 1767], Huds. 2. 586 [= Hudson 1778]. A5, Gmel., t. 17 f. 2 [= Gmelin 1768]'. Round box marked 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]' and 'Foto. nr. 62A [= photograph number 62A]'. Photograph is marked '22'6'. The date 'Nov. 1863' on the herbarium sheet cannot be the collection date (as listed in Adey & Lebednik 1967: 68) because Pulteney died in 1801. It is possible that the date '1863' is an error for '1763']; **TRH B17-2538.**

[Anon.]; [geographic region uncertain]; Nordland [county]; [on] '*Fucus cartilagineus Gelidium*'; [no date]; [no slides]; ex herb. Sommerfelt [algae at C, according to Koster 1969: 557], [number] XXIV; [no pfa]; [no notes]; **TRH B17-2539.**

[Anon.]; [geographic region uncertain]; [no locality data]; [on] *Gelidium cartilagineum*; [no date]; [no slides]; ex Gunnerus herb., Trondheim [TRH]; [no pfa]; [Note: sheet marked '*Gelidium cartilagineum* (L.) Grev.' and '*Fucus cartilagineus* L. – Gunn.' and '*Sphaerococcus cartilagineus* Ag.' and 'Af [= out of] Gunner[u]s Herbarium i [= in] Trondhjem' and '(Ikke Tyrholms samling [= not Tyrholms collection])'. A packet associated with this collection contains a piece of material and is marked '*L. lichenoides?*'; **TRH B17-2540.**

conchatum, *Lithothamnion* [originally described as *Lithothamnion conchatum* (Setchell & Foslie in Foslie 1902a: 6), where Foslie retained it in publication]. **Lectotype:** TRH, B17-2541 (see below).

Gibbs; Amerika [= America] [meaning United States]; California, Monterey; 'paa [= on] *Cheilosporum*'; 10.i.1899; slides 729, 1578; ex herb. Setchell [UC]; pfa: Printz 1929, pl. 10, figs 3-6; [Note: **Lectotype** of *Lithothamnion conchatum* Setchell & Foslie in Foslie. Additional data — Woelkerling 1993: 57, and Athanasiadis et al. 2004: 140. Mason 1953: 317-318 indicated that the type is numbered 'Setchell & Gibbs 3057a', but this information does not appear on the lectotype and is not mentioned in the protologue (Foslie 1902a: 6-7). Collection includes one medium-sized round box and fragments in two small round boxes. One small box marked 'Lithoth. Monogr., pl. 10, fig. 3-6' and the other marked '*Lithoth. conchatum*' and 'Monterey, Cal.' and 'Sp. konc. [= sporangial conceptacles]' and 'Foto. nr. 64 sp. [= photograph number 64 sporangia]'. Annotation slip in medium-sized box marked 'Perith. cell. smalere end præp. 728 [= perithallial cells narrower than slide 728]' [slide 728 is part of the type collection of *Lithothamnion conchatum* f. *reclinatum* (B17-2590, listed under *L. reclinatum*)]. Gibbs is listed as collector on slide 1578 and habitat data are on slide 729. Grouped with B17-2542 (now placed under *Lithothamnion parcum* – see below) as one entry in Adey & Lebednik 1967: 68]; **TRH B17-2541.**

conchatum, *Lithothamnion* (f. *reclinatum*). See listing below for *reclinatum*, *Lithothamnion*

cystocarpideum, *Lithothamnion* [originally described as *Lithothamnion cystocarpideum* (Foslie 1906b: 7), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, B17-2543 (see below).

Maltby; Chatamøerne [= Chatham Islands]; [no other locality data]; [no habitat data]; xi.1905; slides 1191-1192; Maltby collection number 39, comm. A.D. Cotton, Kew [K]; pfa: Printz 1929, pl. 10, figs 7-9; [Note: **Holotype** of *Lithothamnion cystocarpideum* Foslie. Additional data — Woelkerling 1993: 69. Collection consists of one larger round box, two smaller round boxes both with fragments, a small four-sided box with fragments, and one fragment in a plastic tube, all placed inside a larger brown box. Larger round box marked

'(og liden skorper [= and small crusts] *L. patena* f. *incisum*') and 'og liden med cyst. konc. [= and small with cystocarpic conceptacles]' and 'Foto. sp. [= photographed sporangia]'. One small round box marked 'Lithoth. Monogr., pl. 10, fig. 7-9'. Other small round box marked '*L. cystocarp.*' and 'Chatamøerne' and 'sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]' and 'Foto. sp. nr. 64 [= photograph sporangia number 64]'. Small four-sided box marked 'Præp. [= slide] 1191-92' and 'Alga from Chatham Isl.' and 'Nov. 1905' and 'leg. H.E. Maltby no. 39'. Plastic tube marked '*Lith. cystocarpideum*'. Algal collections originally at **K** are now housed at **BM**; **TRH B17-2543**.

fuegianum, Lithothamnion [originally described as *Lithothamnion kerguelenum* f. *fuegianum* (Foslie 1905e: 17), but subsequently (Foslie 1906b: 9) raised to the rank of species, namely *Lithothamnion fuegianum*]. **Lectotype:** **TRH**, B17-2545 (see below).

Dusén; [Chile]; Ildlandet [= Tierra del Fuego Archipelago], Isla Desolaciona [= Desolation Island], Puerto Angusto [= Puerto Angosto]; 'uppkastad på stranden [= washed ashore on the beach]'; 16.iv.1896; slide 373; Dusén collection number 48; pfa: Foslie 1907c, pl. 1, fig. 6, and Printz 1929, pl. 6, fig. 15; [Note: box marked '*Lithoth. fuegianum* (tidl. [= earlier] *L. kerguel.*)'. Slide marked 'Puerto Angosto' and '*Lithothamnion (kerguelenum)* f. *fuegiana* = *L. fuegianum*']; **TRH B17-2544**.

Skottsberg; Falkland Islands; Berkeley Sound, Port Louis; collection depth: 2 metres; 28.vii.1902; slide 946; Swedish South Polar Expedition 1901-1903, station 40; pfa: Foslie 1907c, pl. 1, fig. 4, and Printz 1929, pl. 6, figs 12-14; [Note: **Lectotype** of *Lithothamnion kerguelenum* f. *fuegianum* Foslie. Additional data — Woelkerling 1993: 100 and Woelkerling 1998c: 349, who mistakenly list the slide number as 846. Large round box contains one fragment in a small round box marked '*L. fuegianum*' and 'Falklands [= Falkland Islands]' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'Foto. nr. 72A [= photograph number 72A]'. Photos show the specimens in figs 12 & 14 on pl. 6 in Printz 1929, and are in a separate envelope, and are marked '6-10' and 'Benyttet ikke [= not utilized]' and '*Lithoth. fuegianum*' and '1. del af type ekspl. seet neden [= part of type specimen seen from underside]' and '2-5. Falklandsøerne' and 'negativet s. med *L. magellanicum* indsendt repr. [= negative mixed with *L. magellanicum* sent in for repairing]' and 'Ikke benyttet pl. [= not utilized plate] Ant. & Subant. Corall.' and '1 negativ haves [= has one negative]' and '1 negativ benyttet [= one negative used]' and 'Lith. Monogr. for *magellan.* & *heterocl.*'. Collection also includes a glass tube with a label on the lid that reads 'St. 40' and 'Falklands' and '*Lithoth. fuegianum*'. Annotation slip in tube marked 'Anth. konc. n. spaltef. som hos flere a. arter, sp. cyst. anth. [= antheridial conceptacles somewhat split-formed as with several other species, sporangial cystocarpic antheridial]' and 'sprit [= spirit]']; **TRH B17-2545**.

Thaxter; Chile; Magellanstr. [= Strait of Magellan], Punta Arenas; [no habitat data]; 1905-1906; slide 1496; comm. Farlow, (1907), number 15; [no pfa]; [Note: annotation slip in box with hand-written collection data also imprinted with 'South American Cryptogams' and '1905-1906'. Second annotation slip in box marked 'Cellerne smalere end typen [= the cells narrower than type]'. Collector not listed in Adey & Lebednik 1967: 68]; **TRH B17-2546**.

[Anon.]; Falklandsøerne [= Falkland Islands]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]' and 'Foto nr. 72B [= photograph number 72B]'. Collection not included in Adey & Lebednik 1967, but may have been separated by Foslie from the lectotype collection (B17-2545)]; **TRH B17-2547**.

haptericum, Lithothamnion [originally described as *Lithothamnion haptericum* (Foslie 1906b: 8), where Foslie retained it in publication]. **Holotype:** **TRH**, B17-2549 (see below).

Laing; New Zealand; sydl. del [= southern part], [no other locality data]; [no habitat data]; [no date]; slide 573; ex herb. Reinbold [dispersed amongst several institutions, according to Stafleu & Cowan 1983: 698], 1901; [no pfa]; [Note: box marked '*L. muelleri* f. *L. haptericum*']; **TRH B17-2548.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; on holdfast's of *Ecklonia*; vi 1904; two slides numbered 1171 and one slide numbered 1172; Setchell collection number 6351; pfa: Printz 1929, pl. 6, fig. 11; [Note: **Holotype** of *Lithothamnion haptericum* Foslie. Additional data — Woelkerling 1993: 114, who mistakenly gives the type locality as the 'Bay of Islands'. Collection includes fragments in a small box marked 'Sp. konc. [= sporangial conceptacles] 0.6, 0.7-1 mm' and 'Foto. nr. 70A [= photograph number 70A]'. Annotation slip in large original box with hand-written habitat and collection number data also imprinted with 'Herbarium of the University of California' [UC] and 'North Island, New Zealand']; **TRH B17-2549.**

incisum*, *Lithothamnion [originally described as *Lithothamnion patena* f. *incisa* (Foslie 1906b: 6) but subsequently (Foslie 1907b: 12) raised to the rank of species, namely *Lithothamnion incisum*]. **Lectotype:** TRH, B17-2551 (see below).

Setchell; New Zealand; North Island, Island Bay; 'paa [= on] *Lenormandia*'; vi.1904; [no slides]; Setchell collection number 6052a 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. patena* f. *incisa incisum*?' and 's. med [= mixed with] *Lithoph. explanatum* og [= and] *Melob. leptura*']; **TRH B17-2550.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone, on *Corallina* and *Amphiroa*; vi.1904; two slides numbered 1175; Setchell collection number 6354; [no pfa]; [Note: **Lectotype** of *Lithothamnion patena* f. *incisa* Foslie. Additional data — Woelkerling & Harvey 1992: 382, Woelkerling 1993: 123, Woelkerling & Harvey 1993: 587, and Athanasiadis 1999: 247-248, all of whom incorrectly list the 'Bay of Islands' as the type locality. Annotation slip in box with hand-written collection data also imprinted with 'Herbarium of the University of California' and 'North Island, New Zealand'. Collection includes a small round box marked '*L. incisum*' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'cyst. fotogr. [= cystocarpic photographed]' and '#6354' and 'Foto. nr. 67B [= photograph number 67B]'. Slide 1175 marked '*Lith. patena* f. *incisa incisum*'. Grouped with B17-2552 and B17-2553 under one entry in Adey & Lebednik 1967: 68]; **TRH B17-2551.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; uppermost sublittoral zone, on *Corallina* and *Amphiroa*; vi.1904; slides 1173-1174; Setchell collection number 6353; [no pfa]; [Note: large round box and slides marked '*Lith. patena* f. *incisa incisum*'. Annotation slip in large round box with hand-written collection data also imprinted with 'Herbarium of the University of California' and 'North Island, New Zealand'. Collection also includes a photograph and a small round box marked '*L. incisum*' and 'pl. 10, fig. 10' and 'Sp. konc. [= sporangial conceptacles]' and 'hab. & sp. fotogr. [= habitat & sporangia photographed]' and '#6353' and 'Foto. nr. 67C [= photograph number 67C]'. Grouped with B17-2551 and B17-2553 under one entry in Adey & Lebednik 1967: 68. Collection cited in protologue of taxon]; **TRH B17-2552.**

Setchell; New Zealand; North Island, Island Bay, near Wellington; [no habitat data]; vi.1904; [no slides]; Setchell collection numbers 6353 'og [= and]' 6354; pfa: Printz 1929, pl. 10, figs 10-13; [Note: collection consists of one larger round box and two small round boxes housed in a newer brown box. Larger round box marked with collection data. One small box (with one fragment) marked '*L. incisum*' and 'Anth.? konc. fotogr. (350-500 μ) [= antheridial? conceptacles photographed (350-500 μ)]' and 'Foto. nr. 67A [= photograph number 67A]'. Second small box (with three fragments) marked '*L. incisum*' and 'Anth.? konc. [= antheridial? conceptacles] 350-500 μ ' and '#6353 mindste [= smallest]' and '#6354 største [= largest]'. It no longer is possible to determine from which collection

(6353 or 6354) each fragment came. Grouped with B17-2551 and B17-2552 under one entry in Adey & Lebednik 1967: 68]; **TRH B17-2553**.

kerquelenum, *Lithothamnion* (f. *fuegianum*). See listing above for *fuegianum*, *Lithothamnion*

lamellatum, *Lithothamnion* [originally described as *Lithothamnion lamellatum* (Setchell & Foslie in Foslie 1903a: 4), but not mentioned in Foslie's subsequent publications]. **Lectotype**: **TRH**, B17-2554 (see below).

Setchell & Gibbs; [United States]; California, Monterey, Cypress Point; [no habitat data]; 9.i.1899; slides 825-826; Setchell collection number 3075; pfa: Printz 1929, pl. 8, figs 4-5; [Note: **Lectotype** of *Lithothamnion lamellatum* Setchell & Foslie in Foslie. Additional data — Athanasiadis et al. 2004: 146. Adey (1970: 25) and Woelkerling (1993: 135) referred to the single **TRH** collection as the holotype. According to Athanasiadis et al. (2004: 133), however, the collection includes material belonging to two species, thus requiring lectotypification (see ICBN Art. 9.9). Athanasiadis et al. (2004: 133) chose the specimen depicted in Printz 1929, pl. 8, fig. 4 as lectotype. The specimen illustrated in Printz 1929, pl. 8 fig. 5 was termed paratype by Athanasiadis et al. (2004: 146). Collection includes one fragment in a small box marked '*L. lamellatum*' and 'Sp. konc. [= sporangial conceptacles]' and 'Foto. nr. 73A [= photograph number 73A]'. Collection on loan during catalogue preparation and thus information on slides and any annotation slips present was not accessible]; **TRH B17-2554**.

lichenoides, *Lithothamnion* (f. *patena*). See listing below for *patena*, *Lithothamnion*

muelleri, *Lithothamnion* [originally described as *Lithothamnion muelleri* (Lenormand ex Rosanoff 1866: 101), where Foslie retained it in publication. The name *Lithothamnion muelleri* f. *cingens* (Foslie 1900f: 69) is superfluous for *L. muelleri* f. *muelleri* — see Woelkerling 1993: 51. The orthography '*müller*' has been corrected to '*mueller*' in the listings]. **Lectotype**: **CN**, Lenormand Herbarium, unnumbered (Woelkerling 1983a: 190).

Note: Adey & Lebednik 1967: 68 recorded 13 boxes from Cape Jaffa, South Australia under four entries with some slides listed under the wrong entry. The 16 boxes found during the present study are each entered separately below. Engelhart is listed as collector or communicator on 10 but almost certainly was both collector and communicator of all the samples)

[Engelhart]; [Australia]; Sydastr. [= South Australia], Cape Jaffa; [no habitat data]; 1899; [no slides]; comm. Dr Aug. Engelhart; pfa: Printz 1929, pl. 7, figs 1-10; [Note: material with same collecting information represented in *Lithothamnion Selecta Exsiccata* (as *L. muelleri* f. *cingens*) (see Chapter 6)]; **TRH B17-2555**.

[Engelhart]; [Australia]; Sydastr. [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 349; comm. Dr Aug. Engelhart; [no pfa]; [Note: box marked faintly in pencil 'Dubl. i gangskabet [= duplicates in corridor cabinet]'. Collection includes three annotation slips with measurements, all marked 'Præp. [= slide] 349'. Collection also includes fragments in a small box marked '349'. Slide marked '*Lithothamnion muelleri* Lemorm. f. *cingens* Fosl.', a superfluous name for *L. muelleri* f. *muelleri*. Material with same collecting information represented in *Lithothamnion Selecta Exsiccata* (as *L. muelleri* f. *cingens*) (see Chapter 6)]; **TRH B17-2556**.

Engelhart; [Australia]; South Australia, Cape Jaffa, Kingston; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: duplicate box prepared by O. Gjærevoll after Foslie's death for the *Lithothamnion Selecta Exsiccata* (see Woelkerling 1993: 9-10). Box has printed label with collection data and published references. Collection labelled

- '*Lithothamnion muelleri* f. *cingens*', a superfluous name for f. *muelleri* (see Woelkerling 1993: 51)]; **TRH B17-2557**.
- [Engelhart]; Australia; [South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 1042; comm. Dr Aug. Engelhart; [no pfa]; [Note: material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (as *L. muelleri* f. *cingens*) (see Chapter 6)]; **TRH B17-2558**.
- [Engelhart]; Australia; [South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; slide 1043; comm. Dr Aug. Engelhart; [no pfa]; [Note: material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (as *L. muelleri* f. *cingens*) (see Chapter 6)]; **TRH B17-2559**.
- Engelhart; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. muelleri*? ell. [= or] *L. muell.* og [= and] *L. engelh.* sammenv.? [= coalesced?]' and 'Cyst konc. [= cystocarpic conceptacles] 0.6-1 mm'. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (as *L. muelleri* f. *cingens*) (see Chapter 6)]; **TRH B17-2560**.
- Engelhart; [Australia]; Sydaustralien [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1899; [no slides]; comm. Dr Aug. Engelhart; [no pfa]; [Note: box marked 'obs. unge ind., som senere løsner sig [= observed young specimen, which later may become loose]'. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) but with the superfluous name *Lithothamnion muelleri* f. *cingens*]; **TRH B17-2561**.
- Engelhart; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: material with same collecting information is represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) but with the superfluous name *Lithothamnion muelleri* f. *cingens*]; **TRH B17-2562**.
- Engelhart; Australia; Sydaustr. [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1900; slide 571; [no other collection data]; [no pfa]; [Note: box marked '*L. muelleri* f. (og underligg. a. art [= and underlying another species])' and 'Konc. tildels nær [= conceptacles partly close to] *engelhartii*'. Slide marked 'Australia' and 'Kingston' [the town near Cape Jaffa where Engelhart lived]. Large round box contains a fragment in a small box marked '571']; **TRH B17-2563**.
- Engelhart; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. smaa n. som hos *engelhartii* [= sporangial conceptacles small somewhat like *engelhartii*]']; **TRH B17-2564**.
- Gabriel; [Australia]; Victoria, Phillip Island [= Phillip Island], Corner Inlet, øst f. [= east of] Port Phillip Bay; [collected in] littoral region; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: locality data on box contradictory. Phillip Island and Corner are geographically separated localities]; **TRH B17-2565**.
- Gabriel; Australia; Victoria, Port Phillip Bay; [no habitat data]; 1901; slide 1540; [no other collection data]; [no pfa]; [Note: box marked '*L. muelleri* f.']; **TRH B17-2567**.
- Gabriel; Australia; Victoria, Western Port Bay, Phillip Island, Ocean Beach; at very low tide; 1901 or 1903; slide 884; [no other collection data]; [no pfa]; [Note: large round box marked '*L. muelleri* (?)'. Two collection dates occur on box. Large round box includes one fragment in a small box marked 'konc. [= conceptacles]']; **TRH B17-2568**.
- Mueller; Australia; [Victoria], Western Point [probably Western Port Bay]; [no habitat data]; 1861; slide 1040; ex herb. Le Jolis [**CHE**]; [no pfa]; [Note: annotation slip in box imprinted with 'Herb. A. Le Jolis' also marked by hand with '*Lithothamnion mülleri* (Lenorman. In herb.) Rosan!' and 'ex herb. Lenormand' [now at **CN**] and 'Western Point (Australia) F. Müller 1861'. Slide 1540, which belongs to B17-2567, was mistakenly listed in Adey & Lebednik 1967: 68 as part of B17-2575. Species name on box lid mistakenly underlined in orange (see Woelkerling 1993: 9) to incorrectly suggest it is type material]; **TRH B17-2575**.

- [Anon.]; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'med unge thalli undersiden [= with young thalli on the underside]'. Probably collected by Engelhart (see general Note at start of entries for *L. muelleri*); **TRH B17-2569**.
- [Anon.]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; 1899; slides 1668-1669; [no other collection data]; [no pfa]; [Note: box marked 'radialsnit [= radial cut]' in relation to slides. Probably collected by Engelhart (see general Note at start of entries for *L. muelleri*); **TRH B17-2570**.
- [Anon.]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; [no date]; slides 1524-1525; [no other collection data]; [no pfa]; [Note: box marked 'radialsn. [= radial cut]' in relation to slides. Probably collected by Engelhart (see general Note at start of entries for *L. muelleri*); **TRH B17-2571**.
- [Anon.]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; [no date]; slide 1526; [no other collection data]; [no pfa]; [Note: probably collected by Engelhart (see general Note at start of entries for *L. muelleri*); **TRH B17-2572**.
- [Anon.]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Foto nr. 60B [= photograph number 60B]' and 'Sp. konc. [= sporangial conceptacles] 400-600 (typisk [= typical])'. Probably collected by Engelhart (see general Note at start of entries for *L. muelleri*); **TRH B17-2573**.
- [Anon.]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ikke foto. [= not photographed]' and 'Sp. Konc [= sporangial conceptacles]. 600-700 store [= large]'. Probably collected by Engelhart (see general Note at start of entries for *L. muelleri*); **TRH B17-2574**.
- [Anon.]; Australia; [Victoria], Western Port; [no habitat data]; [no date]; [no slides]; ex herb. Le Jolis [**CHE**] and ex herb. Bornet [**PC**]; [no pfa]; [Note: collection apparently not included in Adey & Lebednik 1967]; **TRH B17-2576**.
- [Anon.]; Australia; [no other locality data]; on *Gelidium glandulif.*; [no date]; [no slides]; herb. Farlow [**FH**] and ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*L. capense* (scr. Born.)' and '*L. muelleri*']; **TRH B17-2577**.
- [Anon.]; Australia; [no other locality data]; on *Gelidium glandulifolium*; [no date]; slide 1517; ex herb. W.G. Farlow [**FH**], [comm.] 1907, [specimen] D; [no pfa]; [Note: box marked '*Melobesia capensis* herb. Farlow = *Lithothamnium muelleri*']; **TRH B17-2578**.
- [Anon.]; Australia?; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: box marked '*L. capense*?' and '*L. muelleri* f.? vel u. sp.? [= well developed sporangia?] = *L. engelhartii* f. *umbonata*'. Collection apparently not included in Adey & Lebednik 1967]; **TRH B17-2579**.
- [Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Thuret – Bornet [**PC**], herb. Farlow [**FH**]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 69 but not found during present study]; **TRH B17-2580**.

muelleri, *Lithothamnion* (f. *cingens*) [see listing above for **muelleri, *Lithothamnion***. The name *Lithothamnium muelleri* f. *cingens* (Foslie 1900f: 69) is superfluous for *L. muelleri* f. *muelleri* — see Woelkerling 1993: 51]

nitidum, *Lithothamnion* [originally described as *Lithothamnium nitidum* (Foslie 1901e: 4), where Foslie retained it in publication]. **Holotype:** TRH, B17-2581 (see below).

Yendo; Japan; Misaki; [no habitat data]; viii.1900; slides 691, 1562; Yendo collection number 784; pfa: Printz 1929, pl. 6, fig. 10; [Note: **Holotype** of *Lithothamnium nitidum* Foslie. Additional data — Woelkerling 1993: 158. Large round box contains two fragments in a small box marked '*L. nitidum*' and 'Japan' and 'Sp. & (cyst. konc. ikke) [= sporangial & (no cystocarpic conceptacles)]' and 'Sp. konc. foto. nr. 69A [= sporangial conceptacles photograph number 69A]' and '(brudstk. [= fragment])'. Collection also includes a small frag-

ment coated for scanning electron microscopy in a small plastic tube prepared by an unidentified person and marked '*Mesophyllum nitidum*' and '-SEM-'; **TRH B17-2581**.

parcum, Lithothamnion [originally described as *Lithothamnion parcum* (Setchell & Foslie in Foslie 1907b: 14), but not mentioned in Foslie's subsequent publications]. **Holotype:** **TRH**, B17-2582 (see below).

Gibbs; [United States]; California, Monterey; [no habitat data]; 10.i.1899; slides 1576-1577; [no other collection data]; pfa: Printz 1929, pl. 10, figs 18-23; [Note: **Holotype** of *Lithothamnion parcum* Setchell & Foslie in Foslie. Additional data — Woelkerling 1993: 169]. Mason 1953: 318 indicated that the type is numbered 'Setchell & Gibbs 3057b', but this information does not appear on the holotype and is not mentioned in the protologue (Foslie 1907b: 14-15). Lid of original quadrangular box marked 'Setchell + Gibbs' and '*Lithophyllum polyporoides* Setchell' and '(= *L. parcum*?)'. *Lithophyllum polyporoides* apparently is an unpublished herbarium name. Slides 1576-1577 marked '*Lithoth. parcum*' and 'leg. Gibbs'. Slide 1576 also marked 'Tegning! [= drawing!]'. Collection also includes one packet marked 'Foto. nr. 66 sp. [= photograph number 66 sporangia]' with one specimen inside and an envelope containing two further photos. Collection also includes three small round boxes. One box (with one fragment) marked '*Lithoth. parcum (polypor.)*' and 'Anth.? konc. [= antheridial? conceptacles]'. Second box (with three fragments) marked '*L. parcum*' and 'Lithoth. Monogr. pl. X, 18-23'. The latter refers to Printz 1929 but incorrectly to pl. 8 rather than pl. 10. Third box (with two fragments) marked '*Lithoth. parcum*' and 'Monterey' and '2 ekspl. [= two specimens]' and 'lave sp. konc. [= low sporangial conceptacles]' and 'pl. 10, fig. 18'. The latter refers to Printz 1929, pl. 10, fig. 18. The same figures (Printz 1929, pl. 10, figs 18-23) are cited on B17-2542, and it is possible that the material B17-2542 was removed by someone from B17-2582; **TRH B17-2582**.

[Anon.]; Amerika [= America] [meaning United States]; California, Monterey; [no habitat data]; 10.i.1899; [no slides]; [no other collection data]; [no pfa]; [Note: lid of original round box marked '*Lithophyllum polyporoides* Setch. = *Lithoth. conchatum parcum* Setch. & Foslie' and 'Lith. Mono. 10 (18-23) [= Printz 1929, pl. 10, figs 18-23]'. Bottom of original box marked '*Lithophyllum polyporoides* Setch. = *Lithoth. conchatum*. Setch. & Fosl.' without reference to *L. parcum* (possibly an oversight on Foslie's part). *Lithophyllum polyporoides* apparently is an unpublished herbarium name. The same figures (Printz 1929, pl. 10, figs 18-23) are cited on the holotype of *Lithothamnion parcum* (B17-2582), and it is possible that the material B17-2542 was removed by someone from B17-2582. B17-2542 grouped with the lectotype of *Lithothamnion conchatum* (B17-2541) under one entry in Adey & Lebednik 1967: 68. Adey & Lebednik recorded three boxes under their entry for *L. conchatum* but only two were found during the present study]; **TRH B17-2542**.

patena, Lithothamnion [originally described as *Melobesia patena* (J.D. Hooker & W.H. Harvey in W.H. Harvey 1849a: 111). Then (Kützing 1858: 47) transferred without change in rank into *Mastophora*, then (Rosanoff 1866: 88) into *Lithophyllum*, and then (Heydrich 1897c: 413) into *Lithothamnion*. Then (Foslie 1898b: 7) reduced to the rank of form and treated as *Lithothamnion lichenoides* f. *patena*, but later (Foslie 1902a: 7 and Foslie 1906b: 6) re-elevated to species rank as *Lithothamnion patena*]. **Holotype:** **TCD**, Colenso collection 1331 (May & Woelkerling 1988: 53).

Engelhart; [Australia]; Sydastralien [= South Australia], Cape Jaffa; [no habitat data]; 1899; slides 578, 1355; comm. Dr Aug. Englehart, Kingston S.E. 1899; [no pfa]; [Note: collection includes two fragments in a small box marked '1355'. Slide marked 'leg. Engelhart 1899'. Grouped with B17-2584 and B17-2585 under one entry in Adey & Lebednik 1967: 69. Adey & Lebednik record four boxes but it is unclear whether these include the two

small boxes in B17-2584. Only two larger boxes were found during the present study]; **TRH B17-2583.**

[Engelhart]; [Australia]; Syd-Australia [= South Australia], Cape Jaffa; [no habitat data]; 1899; [no slides]; comm. Dr Aug. Engelhart, Kingston; pfa: Printz 1929, pl. 10, fig. 1; [Note: large original box includes two small boxes. One small box contains one specimen and is marked '*L. patena*' and 'Cape Jaffa' and 'Sp. konc. [= sporangial conceptacles] 0.8-1 (1.2)' and 'Foto. nr. 68B [= photograph number 68B]'. Second small box contains one specimen and is marked '*L. patena*' and 'Cape Jaffa' and 'Cyst. og anth. konc. [= cystocarpic and antheridial conceptacles]' and 'Foto. nr. 68A [= photograph number 68A]'. Grouped with B17-2583 and B17-2585 under one entry in Adey & Lebednik 1967: 69. Adey & Lebednik record four boxes but it is unclear whether these include the two small boxes in B17-2584. Only two larger boxes were found during the present study]; **TRH B17-2584.**

Engelhart; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a box containing 8 dried specimens on small herbarium sheets and two photos of individual plants. One photo is marked 'nr. 70' and 'Cyst. & anth. [= cystocarps and antheridia]'. Grouped with B17-2583 and B17-2584 under one entry in Adey & Lebednik 1967: 69. Adey & Lebednik record four boxes but it is unclear whether these include the two small boxes in B17-2584. Only two larger boxes were found during the present study]; **TRH B17-2585.**

[Anon.]; [Australia]; Victoria; [no habitat data]; [no date]; slide 1038; ex herb. J.E. Areschoug [S]; [no pfa]; [Note: grouped with B17-2587 under one entry in Adey & Lebednik 1967: 69 who mistakenly list 'Areschoug' as collector and mistakenly indicate that both collections originated from Bornet's herbarium]; **TRH B17-2586.**

[Anon.]; [Australia]; Victoria, Armstrong Bay; [no habitat data]; 1890; [no slides]; ex herb. Bornet [PC]; [no pfa]; [Note: grouped with B17-2586 under one entry in Adey & Lebednik 1967: 69 who mistakenly list 'Areschoug' as collector and mistakenly indicate that both collections originated from Bornet's herbarium]; **TRH B17-2587.**

[Anon.]; Australia; Victoria; [no habitat data]; [no date]; [no slides]; 'Aresch. ded. [= given by Aresch.]', ex herb. Born. [PC]; [no pfa]; [Note: Adey & Lebednik 1967: 69 mistakenly indicate that collection is 'ex herb Areschoug' [S]]; **TRH B17-2589.**

[Anon.]; New Zealand; [no other locality data]; [no habitat data]; 1886; [no slides]; [ex] Naturh. Hofmus. Wien [W], number 6273; [no pfa]; [Note: it is unclear whether 1886 is the collection date or the communication date. Adey & Lebednik 1967: 69 mistakenly list the collector as 'Hoffman']; **TRH B17-2588.**

patena, Lithothamnion (f. incisum). See listing above for *incisum, Lithothamnion*

reclinatum, Lithothamnion [originally described as *Lithothamnion conchatum* f. *reclinata* (Setchell & Foslie in Foslie 1906b: 6) but subsequently (Foslie 1907b: 14) raised to the rank of species, namely *Lithothamnion reclinatum*]. **Holotype:** TRH, B17-2590 (see below).

Yendo; [Canada]; B.C. [= British Columbia], Vancouver Island, Port Renfrew Port San Juan; 'paa [= on] *Cheilosporum frondescens*, on a shell of *Mya*, between tide marks'; vii.1901; slides 728, 1357; [no other collection data]; pfa: Printz 1929, pl. 10, figs 14-17; [Note: **Holotype** of *Lithothamnion conchatum* f. *reclinatum* Setchell & Foslie in Foslie. Additional data — Woelkerling 1993: 187. Collection consists of four original round boxes housed in a newer brown box. Largest round box, marked '*Lithoth. conchatum* f. *reclinata-reclinatum*', includes information on slide numbers, and contains two small boxes. One small box (with one fragment) marked '*L. reclinatum*' and 'Ikke fotogr. [= not photographed]' and 'Cyst. konc. [= cystocarpic conceptacles]'. Other small box (with 4 fragments) marked '*L. reclinatum*' and 'Foto. nr. 65 [= photograph number 65]' and 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in largest round box marked 'Konc. i tværnsn. flerp. høiere og

mere rundagtige paa præp. 728 [= conceptacles in cross-section several-pored taller and rounder on slide 728] and 'længer og smalere paa di fra Amerika, Monterey, Cal. [= longer and narrower on those from (the United States of) America, Monterey, California]'. Fourth round box includes collection data and a reference to figures published in Printz]; **TRH B17-2590**.

speciosum, Lithothamnion [originally described as *Lithothamnion synanablastum* f. *speciosa* (Foslie 1900a: 11) but subsequently (Foslie 1907b: 16) raised to the rank of species, namely *Lithothamnion speciosum*]. **Holotype:** TRH, B17-2591 (see below).

Becker; [South Africa]; Kap d. gode haab [= Cape of Good Hope], Grahamstown; [no habitat data]; v.1899; slides 348, 1551; [no other collection data]; pfa: Printz 1929, pl. 8, figs 2-3; [Note: **Holotype** of *Lithothamnion synanablastum* f. *speciosa* Foslie. Additional data — Woelkerling 1993: 203, and Chamberlain & Keats 1995: 143. Box marked 'sp. konc. foto nr. 71A [= sporangial conceptacles photograph number 71A]' and '*L. synanablastum* f. *speciosum*'. Annotation slip in box marked 'Lidet ekspl. med cyst. konc. paa *Lithoph. carpophylli* hvoraf præp. 546 [= small specimen with cystocarpic conceptacles on *Lithoph. carpophylli* whereof slide 546]'. Slide 546, however is in B18-2594, the holotype of *Lithothamnion chatamense*]; **TRH B17-2591**.

synanablastum, Lithothamnion (f. speciosa). See listing above for **speciosum, Lithothamnion**

verrucata, Lithothamnion (f. antarctica). See listing above for **antarcticum, Lithothamnion**

Melobesia sp

Yendo; [Canada]; British Columbia, Vancouver Island, Port Renfrew Port San Juan; [no habitat data]; vii.1901; [no slides]; epiphytic on *Cheilosporum frondescens*, on a shell of *Mya*, between tide marks; [no pfa]; [Note: listed in Adey & Lebednik 1967: 68 under *Lithothamnion conchatum* but annotation slip does not contain a species name and reads '*Melobesia* sp.']; **TRH B17-2592**.

Case B, Drawer 18

During the present study, a note was found in Drawer B18 that could not be linked to any collection in Foslie's herbarium. The note has been placed in an envelope marked 'Note found in Drawer B18 than could not be linked to any collection in the Foslie herbarium'. In addition, two photos were found, but the photos could not be linked to particular collections. They have been placed in envelope marked 'Loose photos found in B18 that could not be linked to any collection'.

arcticum, Lithothamnion [originally described as *Lithophyllum arcticum* (Kjellman 1877: 16) but subsequently (Foslie 1895a: 158) transferred without change in rank into *Lithothamnion*]. **Lectotype:** UPS, unnumbered (Athnasiadis 2001: 95).

Kjellman; [Russia]; Kariske havet [= Kara Sea], Novaya Zemlya, ostkyst ved [= east coast near] Uddebay; [no habitat data]; 18 viii.1875; slide 1559; [no other collection data]; [no pfa]; [Note: **Paratype** of *Lithophyllum arcticum* Kjellman. Additional data — Woelkerling 1993: 30 and Athnasiadis 2001: 94-95 (who also lectotypified the species). Collection includes a larger original round box with two smaller round boxes, both with fragments. One smaller box (with several fragments) unmarked and the other (containing two frag-

ments) marked '*Lithoth. arcticum*' and 'Sp. konc. [= sporangial conceptacles]'. One annotation slip in larger round box has collection data. A second annotation slip marked *L. arct.*' and 'sp. [= sporangia]' and several additional annotation slips have measurement data. Collection also includes a photo of a fragment of the **UPS** lectotype (Athanasiadis 2001: 95) marked '83A' and '*L. arcticum*'. This photo does not constitute part of B18-2593 but is placed with that collection]; **TRH B18-2593**.

chatamense, *Lithothamnion* [originally described as *Lithothamnion chatamense* (Foslie 1906a: 18), where Foslie retained it in publication]. **Holotype:** TRH, B18-2594 (see below).

Schauinsland; Chatam-øerne [= Chatham Islands]; [no other locality data]; [no habitat data]; [no date]; slides 301-302, 546; comm. Reinbold, xii.1898; pfa: Printz 1929, pl. 9, fig. 10; [Note: Woelkerling 1993: 51 mistakenly gives the collection date as December 1898. **Holotype** of *Lithothamnion chatamense* Foslie. Additional data — Woelkerling 1993: 50 and Keats & Chamberlain 1997: 73. Collection consists of two original small round boxes (both with fragments), three slides and an annotation slip in a newer brown box. Collection (including slide 546) originated from A19-1247 (*Lithophyllum carpophylli*), according to annotation slip in A19-1247. One round box marked 'Præp. [= slide] 546' and '*Lith. chatamense* paa [= on] *Lithoph. carpophylli*'. Other round box marked '*Lithoth. chatamense*' and 'Sp. konc. [= sporangial conceptacles]' and 'Foto. nr. 79A [= photograph number 79A]'. Annotation slip in B18-2594 marked 'Præp. [= slides] Andersss. 301-302' and 'B' and 'A.B.C.'. 'Andersss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Slide 546 marked '*Lithophyllum carpophylli* Heydr. og [= and] *Lithoth.*' and 'Chatam-øerne [= Chatham Islands]' and 'leg. Schauinsland' and 'comm. Reinbold nr. C.']; **TRH B18-2594**.

engelhartii, *Lithothamnion* [originally described as *Lithothamnion engelhartii* (Foslie 1900a: 18), where Foslie retained it in publication]. **Lectotype:** TRH, B18-2595 (see below).

Note: During the present study, two photos marked 76B and *L. engelhartii* were found in Drawer B18 but could not be linked to any collection of that species. The photos have been placed in an envelope labelled 'Loose photos found in Drawer B18 that could not be linked to any collection'.

[Engelhart]; [Australia]; Syd-Austr. [= South Australia], Cape Jaffa; [no habitat data]; 1900; slide 350; comm. Dr Aug. Engelhart, Kingston 1900; pfa: Printz 1929, pl. 7, fig. 14; [Note: **Lectotype** of *Lithothamnion engelhartii* Foslie. Additional data — Woelkerling 1993: 84, Woelkerling & Harvey 1993: 583, and Chamberlain & Keats 1995: 134. Box marked '*L. engelhartii* f. *imbricata* = *typica*'. Collection includes a small plastic tube marked '*Mesophyllum engelhartii*'. One annotation slip in box marked 'comm. Dr Aug. Engelhart', but Engelhart is also the collector (stated in a 1900 letter to Foslie but not recorded on collection). The collection and communication date are both presumed to be 1900. Annotation slip for slide 350 marked 'Ligner præp. 351 og 1544 [= resembles slides 351 and 1544]'. Slide 351 is part of B18-2607 and slide 1544 is part of B18-2597]; **TRH B18-2595**.

[Engelhart]; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; comm. Dr Aug. Engelhart; pfa: Printz 1929, pl. 7, figs 12-13; [Note: box marked '*Lithoth. engelhartii* f. *typica*'. Engelhart is also the collector (stated in a 1900 letter to Foslie but not recorded on collection). Grouped under one entry in Adey & Lebednik 1967: 69 with five other collections of *L. engelhartii* (f. *engelhartii*) (B18-2597, B18-2598, B18-2599, B18-2600, B18-2601), two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2596**.

Engelhart; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1900; slide 1544; [no other collection data]; [no pfa]; [Note: grouped under one entry in Adey & Le-

bednik 1967: 69 with five other collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2598, B18-2599, B18-2600, B18-2601), two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2597.**

Engelhart; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1900; slide 1545; [no other collection data]; [no pfa]; [Note: box marked 'ikke typisk [= not typical]' and 'Foto. nr. 74B [= photograph number 74B]'. Grouped under one entry in Adey & Lebednik 1967: 69 with five other collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2599, B18-2600, B18-2601), two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2598.**

[Engelhart]; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; comm. Dr Aug. Engelhart, Kingston; [no pfa]; [Note: box marked '*Lithoth. engelhartii* f. *typica*' and 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]'. Engelhart is also the collector (stated in a 1900 letter to Foslie but not recorded on collection). Grouped under one entry in Adey & Lebednik 1967: 69 with five other collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2598, B18-2600, B18-2601), two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2599.**

[Engelhart]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc.? [= cystocarpic conceptacles]', but lacks Engelhart's name on box. Grouped under one entry in Adey & Lebednik 1967: 69 with five other collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2598, B18-2599, B18-2601), two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2600.**

[Engelhart]; [Australia]; [South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. + cyst.? [= sporangial conceptacles + cystocarpic?]' and 'Foto. nr. 74A [= photograph number 74A]', but lacks Engelhart's name of box. Grouped under one entry in Adey & Lebednik 1967: 69 with five other collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2598, B18-2599, B18-2600), two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2601.**

***engelhartii*, *Lithothamnion* (f. *pseudocrispata*)** [originally described as *Lithothamnion engelhartii* f. *pseudocrispata* (Foslie 1901d: 27), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 69 under species without mention of forma]. **Holotype:** PC, General Herbarium (Woelkerling & Harvey 1993: 586, Woelkerling 1998c: 342).

[Engelhart]; Australia; Sydaustr. [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1900; slide 570; [no other collection data]; pfa: Printz 1929, pl. 7, fig. 16; [Note: box marked '*Lith. engelhartii* f. *pseudocrispata*'. Engelhart is the collector (stated in a 1900 letter to Foslie but not recorded on collection). Slide marked with locality data. Grouped under one entry in Adey & Lebednik 1967: 69 with six collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2598, B18-2599, B18-2600, B18-2601), one other collection of *L. engelhartii* f. *pseudocrispata* (B18-2603), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2602.**

Engelhart; [Australia]; Sydaustr. [= South Australia], Cape Jaffa; [no habitat data]; 1900; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 7, fig. 17; [Note: box marked '*Lith. engelhartii* f. *pseudocrispata*'. Grouped under one entry in Adey & Lebednik 1967: 69 with six collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2598, B18-2599, B18-2600, B18-2601), one other collection of *L. engelhartii* f. *pseudocrispata* (B18-2602), and one of *L. engelhartii* f. *umbonata* (B18-2607)]; **TRH B18-2603.**

Gabriel; [Australia]; Victoria, Phillip Island, Ocean Beach; [no habitat data]; 1905; slide 1542; [no other collection data]; [no pfa]; [Note: box marked 'Et par cyst. konc. [= a couple of cystocarpic conceptacles]']; **TRH B18-2604.**

- Gabriel; [Australia]; Victoria, Western Port; collection depth: 3-5 fathoms; 1899; slide 1543; [no other collection data]; [no pfa]; [Note: box marked '*L. engelhartii* f. *pseudocrispata*?' and 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B18-2605.**
- Milligan; [Australia]; Tasmania; [no habitat data]; 1864; slides 669, 1572-1573; [no other collection data]; pfa: Printz 1929, pl. 7, fig. 18; [Note: **Holotype fragment** of *Lithothamnion engelhartii* f. *pseudocrispata* Foslie. Additional data — Woelkerling 1993: 179, Woelkerling & Harvey 1993: 586, and Woelkerling 1998c: 342, figs 245-246. Box marked '*Lith. crispatum* Heydr. in "Lithoth. Mus. Paris"' [Heydrich 1901a: 540] and 'Fig. 4 & 8' and 'Fotogr. 2 ekspl. hvoraf. brudst. [= photographed 2 specimens of which are fragments]'. The two photos are in a separate envelope cross-referenced to this collection. Both photos marked '*Lithoth. crispatum* Heydr.' and 'herb. mus. Paris' [**PC**] and '= *L. engelhartii* f. *pseudocrispata*' and 'naturl. st. [= natural size]'. One photo is also marked 'kun ene ekspl. afb. [= only one specimen pictured in] Lithoth. Monogr.'. The specimen matches Printz 1929, pl. 7, fig. 8. Slide 669 and an annotation slip marked '*L. crispatum* Heydr. = *L. engelhartii* f. *pseudocrispata* Fosl.']; **TRH B18-2606.**
- engelhartii*, *Lithothamnion* (f. *umbonata*)** [originally described as *Lithothamnion engelhartii* f. *umbonata* (Foslie 1900a: 18), where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 69 under species without mention of forma]. **Lectotype:** TRH, B18-2607 (see below).
- Engelhart; [Australia]; Syd-Australien [= South Australia], Cape Jaffa, Kingston; [no habitat data]; 1900; slide 351; comm. Dr Aug. Engelhart, Kingston 1900; pfa: Printz 1929, pl. 7, fig. 15; [Note: **Lectotype** of *Lithothamnion engelhartii* f. *umbonata* Foslie. Additional data — Woelkerling 1993: 230, Woelkerling & Harvey 1993: 586, and Woelkerling 1998c: 343. Grouped under one entry in Adey & Lebednik 1967: 69 with six collections of *L. engelhartii* (f. *engelhartii*) (B18-2596, B18-2597, B18-2598, B18-2599, B18-2600, B18-2601) and two of *L. engelhartii* f. *pseudocrispata* (B18-2602, B18-2603)]; **TRH B18-2607.**
- fragilissimum*, *Lithothamnion*** [originally described as *Lithothamnion fragilissimum* (Foslie 1904b: 13), but not mentioned in Foslie's subsequent publications]. **Lectotype:** L, 943.7-21 (Verheij & Woelkerling 1992: 278, Woelkerling 1993: 98).
- [Weber-van Bosse]; [Indonesia]; Borneo Bank, Lumu-Lumu Shoal; [no habitat data]; 10.-11.vi.1899; slide 1199; Siboga Expedition, station 78, collection number 148a; [no pfa]; [Note: collection consists of one slide and one small fragment in a box. Grouped with B18-2608, B18-2609 and B18-2610 under one entry in Adey & Lebednik 1967: 69]; **TRH B18-2611.**
- [Weber-van Bosse]; [Indonesia]; Borneo Bank, Pulu Sebangkatan; [no habitat data]; 14.vi.1899; one slide labelled with S.E. 971b (Siboga Expedition collection number) and one slide labelled with S.E. 971c (Siboga Expedition collection number); Siboga Expedition, station 81, collection numbers 971b and 971c; [no pfa]; [Note: **Isolectotype fragments** of *Lithothamnion fragilissimum* Foslie. Additional data — Verheij & Woelkerling 1992: 278 and Woelkerling 1993: 98. Collection consists of a mixture of fragments from specimens 971b and 971c (housed at L). Grouped with B18-2609, B18-2610 and B18-2611 under one entry in Adey & Lebednik 1967: 69]; **TRH B18-2608.**
- [Weber-van Bosse]; [Indonesia]; Borneo Bank, Pulu Sebangkatan; [no habitat data]; 14.vi.1899; [no slides]; Siboga Expedition, station 81, collection number 408a; [no pfa]; [Note: **Isolectotype fragments** of *Lithothamnion fragilissimum* Foslie. Additional data — Verheij & Woelkerling 1992: 278 and Woelkerling 1993: 98. Box is marked 'Sp. konc. foto nr. 76A [= sporangial conceptacles photograph number 76A]' and 'Sp. konc. [= sporangial conceptacles]'. Collection consists of several fragments from specimens housed at L. Grouped with B18-2608, B18-2610 and B18-2611 under one entry in Adey & Lebednik 1967: 69]; **TRH B18-2609.**

[Weber-van Bosse]; [Indonesia]; Borneo Bank, Pulu Sebangkatan; [no habitat data]; 14.vi.1899; one slide labelled with S.E. 408b (Siboga Expedition collection number); Siboga Expedition, station 81, collection number 408b; [no pfa]; [Note: **Isolectotype slide** of *Lithothamnion fragilissimum* Foslie. Additional data – Verheij & Woelkerling 1992: 278 and Woelkerling 1993: 98. Collection consists of one slide. Grouped with B18-2608, B18-2609 and B18-2611 under one entry in Adey & Lebednik 1967: 69]; **TRH B18-2610**.

keruelena, *Lithothamnion* [originally described as *Melobesia keruelena* (Dickie 1876a: 51) but subsequently (Foslie 1898b: 7) transferred without change in rank into *Lithothamnion*]. **Holotype: BM**, algal box collection 1102 (Woelkerling 1993: 133, Wilks & Woelkerling 1994:197, Woelkerling 1998c: 373).

[Eaton]; Kerguelensland [= Kerguelen]; [no other locality data]; [no habitat data]; xii.1874-ii.1875; slide 361; ex herb. Kew [**K**]; pfa: Printz 1929, pl. 9, figs 5-6; [Note: **Holotype fragments** of *Melobesia keruelena* Dickie. Additional data — Woelkerling 1993: 133, Wilks & Woelkerling 1994: 197, and Woelkerling 1998c: 373. Larger round box has collection data and contains fragments in a smaller round box marked '*Lithoth. keruelenum*' and 'Sp. konc. [= sporangial conceptacles]' and 'Foto nr. 78A [= photograph number 78A]' and 'brudst. [= fragments]'. Slide marked '*Melobesia keruelena*' = *Lith. kerg.*' and 'Kew Gardens herb.' [**K**]. Algal collections originally at **K** are now housed at **BM**]; **TRH B18-2612**.

Gundersen; Kerguelen; Royal Sound; 'fæstet til [= attached to] *Mytilus*'; 1898; slides 927-928; [no other collection data]; [no pfa]; [Note: collection includes two small round boxes, one (empty) marked '927' and one (with fragments) marked '928'. Slides 927 and 928 marked '*L. neglectum*' and 'Kerguelen, Royal Sound' and 'H. Gundersen' and '1898'. According to a letter from H. Gundersen dated 25.v.1905 (see photocopy), the collection was made on the south side of Royal Sound about one 'Norwegian mile' from the entrance. Annotation slip in box marked 'Præp. 927 af stk. fæstet til *Mytilus* og næsten pl..... [= slide 927 of piece fasten to *Mytilus* and almost]' [last word difficult to read] and 'Præp. 928 løst stk. med konc. [= slide 928 unfasten piece with conceptacles]'. Collection not included in Adey & Lebednik 1967, but slides 927-928 are listed in Adey & Lebednik 1967: 70 under the holotype of *Lithothamnion neglectum* f. *fragilis* (B18-2621)]; **TRH B18-2613**.

mesomorphum, *Lithothamnion* [originally described as *Lithothamnion mesomorphum* (Foslie 1901a: 5), where Foslie retained it in publication]. **Holotype: TRH**, B18-2615 (see below).

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; i.1879; slides 485, 840; ex herb. Farlow [**FH**], [comm.] Farlow 1900, number XI; pfa: Printz 1929, pl. 9, figs 7-8; [Note: **Holotype** of *Lithothamnion mesomorphum* Foslie. Additional data — Woelkerling 1993: 148. Larger original box marked '*Lith. lichenoides*' as well as '*Lith. mesomorphum*'. Larger box contains two small boxes, each with one fragment. One small box marked '840'. Second small box marked '*Lithoth. mesomorph.*' and 'Sp. konc. [= sporangial conceptacles]' and 'Bermuda' and 'Foto. nr. 80A [= photograph number 80A]'. Two annotation slips in box with hand-written collection data also imprinted with 'Herb. W.G. Farlow']; **TRH B18-2615**.

mesomorphum, *Lithothamnion* (f. *ornatum*) [originally described as *Lithothamnion mesomorphum* f. *ornatum* (Foslie & Howe 1906b: (129)), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 70 under species without mention of forma]. **Holotype: NY**, Howe collection 4021 (Woelkerling 1993: 165).

Howe; Bahamas; Exuma Chain, Cave Cays; under rock overhang, low littoral; 19.ii.1905; slide 1579 and two slides labelled with Howe collection number 4021; [no other collection data]; pfa: Printz 1929, pl. 9, fig. 9; [Note: **Isotype** of *Lithothamnion mesomorphum* var. *ornatum* Foslie & Howe. Additional data — Woelkerling 1993: 165, and Woelkerling & Verheij 1995: 67, and Woelkerling 1998c: 355, and Athanasiadis 1999: 246-247 (as *Mesophyllum ornatum*). According to Foslie & Howe (1906b: (128)), this collection is a duplicate of material in **NY**. Box marked 'New York Bot. Garden'. Box and two annotation slips marked '*Lithoth. mesomorphum* Fosl. f. *ornata* Fosl. + Howe' not 'var. *ornatum*' as occurs in protologue (Foslie & Howe 1906b: (129)). 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [**NY**] printed on one slip in box. Same slip has hand-written collection data. Second slip in box marked '*Lithoth. mesomorphum* f. *ornata*' and 'Salmon-coloured if etik. [= according to label]' and '53/3' and 'Howe' and '*Gon. solubile* (?) hvilken sidste er [= which is the last one is] "pink" '. Third slip in box marked 'Squamariacea?'; **TRH B18-2616**.

muelleri, *Lithothamnion* (f. *neglecta*). See listing below for *neglectum*, *Lithothamnion*

neglectum, *Lithothamnion* [originally described as *Lithothamnion muelleri* f. *neglecta* (Foslie 1900a: 17) but subsequently (Foslie 1902b: 19) raised to the rank of species, namely *Lithothamnion neglectum*]. **Lectotype**: **TRH**, B18-2619 (see below).

Eaton; Kerguelensland [= Kerguelen]; [no other locality data]; [no habitat data]; [no date]; slide 360; ex herb. Dickie [now at **BM**] and then ex herb. Kew [**K**]; pfa: Printz 1929, pl. 9, fig. 4; [Note: **Lectotype** of *Lithothamnion muelleri* f. *neglecta* Foslie. Additional data — Woelkerling 1993: 157 and Keats & Chamberlain 1997: 68. Box marked '*Melobesia lichenoides* Dickie = *L. muelleri* f. *neglecta* Fosl.' and 'brudst. [= fragment]'. Slide 360 marked '*L. muelleri* f. *neglecta* Fosl. = *L. neglectum*' and 'ex herb. Dickie' and '(*L. lichenoides* Dickie)' and 'leg. Eaton'. Collection includes a small empty box marked 'Præp. [= slide 360]. Adey & Lebednik 1967: 70 mistakenly mention 'Faton' after the photographic reference, which probably is Eaton, the collector. Algal collections originally at **K** are now housed at **BM**]; **TRH B18-2619**.

Gundersen; Kerguelen; Royal Sound; [no habitat data]; 1898; [no slides]; [no other collection data]; pfa: Foslie 1908a, pl. 20, fig. 7; [Note: box marked '*Lithoth. neglectum* f. *typica*'. According to a letter from H. Gundersen dated 25.v.1905 (see photocopy), the collection was made on the south side of Royal Sound about one 'Norwegian mile' from the entrance. Collection apparently grouped with the holotype of *Lithothamnion neglectum* f. *fragilis* (B18-2621) under one entry in Adey & Lebednik 1967: 70]; **TRH B18-2617**.

[Anon.]; Kerguelen; Observatory Bay, Entenbucht [= Duck Cove?]; [no habitat data]; 14.ii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a specimen in a glass jar, in turn housed in a brown box]; **TRH B18-2620**.

[Anon.]; Kerguelen; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. neglectum*' and '(æske præp. [= box slide] 925)' and 'sp. konc. [= sporangial conceptacles]' and 'sp. konc. foto nr. 77B [= sporangial conceptacles photograph number 77B]'. Slide 925 pertains to a collection of *L. neglectum* f. *fragilis* (B18-2622), and it is unclear whether B18-2618 and B16-2622 represent different parts of the same collection]; **TRH B18-2618**.

[Anon.]; Kerguelen; [no other locality data]; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(æske [= box] = præp. [= slides] 927-928)' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'Sp. konc. foto nr. 77A [= sporangial conceptacles photograph number 77A]'. Slides 927-928 belong to a collection of *Lithothamnion kerguelena* (B18-2613) that was collected in 1898 and not 1895. B18-2614 not included in Adey & Lebednik 1967]; **TRH B18-2614**.

neglectum, Lithothamnion (f. fragilis) [originally described as *Lithothamnion neglectum* f. *fragilis* (Foslie 1905e: 16), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 70 under species without mention of forma]. **Holotype:** TRH, B18-2621 (see below).

Gundersen; Kerguelen; Royal Sound; [no habitat data]; 1898; [no slides]; [no other collection data]; pfa: Foslie 1908a, pl. 20, fig. 6, 'største ekspl. [= largest specimen]', and Printz 1929, pl. 9, fig. 3; [Note: **Holotype** of *Lithothamnion neglectum* f. *fragilis* Foslie. Additional data — Woelkerling 1993: 97. Box marked 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]' and '(og liden skorpe [= and small crust] *Lithoph. consoc.*'. According to a letter from H. Gundersen dated 25.v.1905 (see photocopy), the collection was made on the south side of Royal Sound about one 'Norwegian mile' from the entrance. Slides 927 & 928, mistakenly associated with this collection by Adey & Lebednik 1967: 70, belong to B18-2613, a Gundersen collection of *Lithothamnion kerguelenum*. Collection apparently grouped under one entry in Adey & Lebednik 1967: 70 with a collection of '*Lithothamnion neglectum* f. *typica*' (B18-2617)]; **TRH B18-2621.**

Werth; Kerguelen; Observatory Bay, Entenbucht [= Duck Cove?]; 'paa mollusk [= on mollusc]'; 13.ii.1903 [but see Note]; slide 925; Gauss. Expedition [= German South Polar Expedition (1901-1903)]; [no pfa]; [Note: large round box (with a collection date of 13.ii.1903 and citation of slide 925) contains a small round unmarked box with several pieces of coralline and a somewhat larger round box (also with several pieces of coralline) marked 'Kerguelen' and '14.ii.03' and 'Paa mollusk [= on mollusc]' and 'Præp. [= slide] 925']; **TRH B18-2622.**

ornatum, Mesophyllum. See listing above for **mesomorphum, Lithothamnion (f. ornatum)**

siamense, Lithothamnion (f. simulans). See listing below for **simulans, Lithothamnion**

simulans, Lithothamnion [originally described as *Lithothamnion siamense* f. *simulans* (Foslie 1901b: 19) but subsequently (Foslie 1904b: 16) raised to the rank of species, namely *Lithothamnion simulans*]. **Holotype:** TRH, B18-2626 (see below).

Schimper; Chagos øerne [= Chagos Islands]; Diego Garcia; [no habitat data]; 1898-1899; slide 903; Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: Adey & Lebednik 1967: 70 omit mention of the collector]; **TRH B18-2623.**

Schimper; Seychellerne [= Seychelles Islands]; Mahé; [no habitat data]; 1898-1899; [no slides]; Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box marked 'sp. & cyst. [= sporangial & cystocarpic]'. Collection includes fragments in a small box marked 'Cystoc. [= cystocarpic]'. Grouped with a collection of *L. simulans* f. *crispescens* (B18-2624) under one entry in Adey & Lebednik 1967: 70]; **TRH B18-2625.**

Schmidt; [Thailand]; Siambugten [= Gulf of Siam, now the Gulf of Thailand], Koh Sarlak [= Sarlak Island]; 'paa lavt vand [= in shallow water]'; 16.iii.1900; slide 463; number VII, Danish Siam Expedition 1899-1900; [no pfa]; [Note: locality and other details are in protologue. **Holotype** of *Lithothamnion siamense* f. *simulans*. Additional data — Woelkerling 1993: 202. Annotation slip in box printed with 'Museum botanicum Hauniense' [an old Latin name for the Botanical Museum Copenhagen, **C**] and 'leg. Johs. Schmidt' and 'Den danske Siamexpedition 1899-1900'. Habitat data also is hand-written on this slip]; **TRH B18-2626.**

[Weber-van Bosse]; [Indonesia]; Banda [Sea]; [no habitat data]; xi.-xii.1899; one slide labelled S.E. 185 (Siboga Expedition collection number); Siboga Expedition, station 240, collection 185; [no pfa]; [no notes]; **TRH B18-2627.**

- [Weber-van Bosse]; [Indonesia]; Borneo Bank, Lumu-Lumu Shoal; [no habitat data]; 10.-11.vi.1899; one slide labelled S.E. 148b (Siboga Expedition collection number); Siboga Expedition, station 78, collection 148b; [no pfa]; [no notes]; **TRH B18-2628.**
- [Weber-van Bosse]; [Indonesia]; Borneo Bank, Pulu Sebangkatan; [no habitat data]; 14.vi.1899; one slide labelled S.E. 408c (Siboga Expedition collection number); Siboga Expedition, station 81, collection 408c; [no pfa]; [no notes]; **TRH B18-2629.**
- [Weber-van Bosse]; [Indonesia]; Saleyer [anchorage]; [no habitat data]; ix.–x. 1899; one slide labelled S.E. 421a (Siboga Expedition collection number); Siboga Expedition, station 213, collection 421a; pfa: Foslie 1904b, pl. 1, fig. 24; [Note: slide marked 'Af s. ekspl. som [= of same specimen as] text-fig. 7A [= Foslie 1904b: 17, text fig. 7]'. Grouped with B18-2631 under one entry in Adey & Lebednik 1967: 70]; **TRH B18-2630.**
- [Weber-van Bosse]; [Indonesia]; Saleyer [anchorage]; [no habitat data]; ix.–x. 1899; [no slides]; Siboga Expedition, station 213, collection 422; pfa: Foslie 1904b, pl. 1, fig. 25; [Note: grouped with B18-2630 under one entry in Adey & Lebednik 1967: 70 but without mention of the collection number]; **TRH B18-2631.**
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the northeast point of Timor]; 'paa [= on] *Lithoph. moluccense*'; 15.-17.i.1900; [no slides]; Siboga Expedition, station 282, collection 418; [no pfa]; [Note: precise locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH B18-2632.**
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the northeast point of Timor]; 'paa [= on] *Lithophyllum bamleri*'; 15.-17.i.1900; one slide labelled S.E. 686b (Siboga Expedition collection number); Siboga Expedition, station 282, collection 686b; [no pfa]; [Note: Adey & Lebednik 1967: 70 mistakenly list the station number as '282b' and the collection number as '686'. Precise locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH B18-2633.**
- [Anon.]; Siam [now Thailand]; [no other locality data]; 'paa [= on] *Septifer bilocularis*'; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one fragment in each of two small boxes housed in a newer brown box. One small box marked 'Sp'. konc. [= sporangial conceptacles]' and 'Foto nr. 75A [= photograph number 75A]', and the other small box marked 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B18-2634.**

simulans, *Lithothamnion* (f. *crispescens*) [originally described as *Lithothamnion simulans* f. *crispescens* (Foslie 1904b: 16), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 70 under species without mention of forma].
Lectotype: L, 991.239-256 (Verheij & Woelkerling 1992: 278).

Schimper; Seychellerne [= Seychelles Islands]; Mahé; [no habitat data]; [no exact date]; [no slides]; Exp. *Valdivia* 1898-1899 [= German Deep-Sea Expedition 1898-1899]; [no pfa]; [Note: box lid marked 'Skorpen glattere end andre ekspl. fra s. sted – og mindre haardt fæstet til underl., konc. omtr. som typiske f. [= the crust smoother than other specimens from same place – and not so firmly fastened to substratum, conceptacles almost as typical form]'. The forma name '*crispescens*' is faintly written on box lid. Grouped with a collection of *L. simulans* (B18-2625) under one entry in Adey & Lebednik 1967: 70]; **TRH B18-2624.**

[Weber-van Bosse]; [Indonesia]; Timor Rif., Oosthoek [but see Note]; [no habitat data]; 15.-17.i.1900; one slide labelled S.E. 409 (Siboga Expedition collection number); Siboga Expedition, station 282, collection 409; pfa: Foslie 1904b, pl. 1, fig. 23; [Note: **Lectotype fragment** of *Lithothamnion simulans* f. *crispescens* Foslie. Additional data — Verheij & Woelkerling 1992: 278, and Woelkerling 1993: 68, and Woelkerling & Verheij 1995: 45. Siboga Expedition, station was situated between Nusa Besi and the northeast point of Timor and not on the Island of Timor]; **TRH B18-2635.**

Case B, Drawer 19

During the present study, a sheet of paper with information about sporangial and cystocarpic conceptacles was found in Drawer B19 but could not be linked to any collection in Foslie's herbarium. The sheet has been placed in an envelope marked 'Sheet found in Drawer B19 than could not be linked to any collection in the Foslie herbarium'. In addition, several photographs were found but could not be linked with certainty to any collection in B19. These have been placed in an envelope marked 'Loose photo found in Drawer B19 that could not be linked with certainty to any collection'.

agariciforme, *Lithothamnion*. See listing below for ***lichenoides, Lithothamnion (f. agariciformis)***

agariciforme, *Lithothamnion (f. hibernica)* [originally described as *Lithothamnion agariciforme* f. *hibernica* (Foslie 1897b: 5), but subsequently (Foslie 1900a: 13) treated as a heterotypic synonym of *Lithothamnion lichenoides* f. *agariciforme*. Collection listed in Adey & Lebednik 1967: 71 under *Lithothamnion agariciformis* without mention of forma].
Lectotype: TRH, B19-2639 (see below).

[Anon.]; Isle of Man; [no other locality data]; [no habitat data]; vi.1890; [no slides]; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithothamnion agariciforme* f. *hibernica* Foslie. Additional data — Woelkerling 1993: 118. Box marked 'L. *lichenoides* = L. *agariciforme* f. *hibernica* Fosl.']; **TRH B19-2639.**

lichenoides, Lithothamnion [originally described as *Corallium lichenoides* (Ellis 1768: 407). Subsequently (Ellis & Solander 1786: 131) transferred without change in rank into *Millepora*, then (Templeton 1836: 470) into *Nullipora*, then (Kützing 1849: 697) into *Mastophora*, then (Harvey 1849a: 111) into *Melobesia*, then (Rosanoff ex Hauck 1883a: 268) into *Lithophyllum*, and then (Foslie 1895a: 206) into *Lithothamnion*, where Foslie retained it in publication. Foslie made no mention or was unaware of the proposed transfer (Kuntze 1898: 433) at species rank into *Tenarea*, but did not accept (Foslie 1908c: 267-268) the proposed transfer (Heydrich 1907: 222) at species rank into *Sphaerantha*].
Neotype: BM, algal box collection 1658 (Woelkerling & Irvine 1986b: 382).

Chalon; France; Frankrigs Atlanterhavskyst [= the Atlantic Ocean of France], Finistère?; [no habitat data]; summer 1904; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. lichenoides Lithoph-incrustans*' and '2 former [= two forms]' and 'Anth. konc. foto nr. 82A [= antheridial conceptacles photograph number 82A]' and 'sp. cyst. konc. foto nr. 82C [= sporangial cystocarpic conceptacles photograph number 82C]'. Collection comprises 6 specimens, one of which is identified as 82A and one as 82C]; **TRH B19-2640.**

Chalon; France; Frankr. Atlanterhavsk.? [= the Atlantic Ocean of France?], Finistère?, Arotcha; Z.I. [probably zone inférieure] [= lower zone]; v.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B19-2641.**

Debray; [Algeria]; Algier, St. Eugène; 'paa [= on] *Ahnfeltia*'; v.1888; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with two other collections of *L. lichenoides* (f. *lichenoides*) (B19-2656, B19-2657) and one of *L. lichenoides* f. *heterophylla* (B19-2666) under one entry in Adey & Lebednik 1967: 70. Collector and collection date not specified for other collections]; **TRH B19-2642.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'overg. til [= grading into] f. *agariciformis*'. Grouped with two other collections of *L. lichenoides* (B19-2643, B19-2646) and

- one collection of *L. lichenoides* f. *depressa* (B19-2645) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2644.**
- Foslie; Irland [= Republic of Ireland]; Roundstone; 'paa [= on] *Corallina*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with two other collections of *L. lichenoides* (B19-2643, B19-2644) and one collection of *L. lichenoides* f. *depressa* (B19-2645) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2646.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dog's - Gorteen Bay; 'paa [= on] *Cystoseira* + *L. incrustans*'; 18.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with two other collections of *L. lichenoides* (B19-2644, B19-2646) and one collection of *L. lichenoides* f. *depressa* (B19-2645) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2643.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beeches, Dog's - Gorleen Bay; [no habitat data]; 18.-20.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked with collection data and with '*L. lichenoides*, Harvey's form'. Grouped with the type of *Lithothamnion lichenoides* f. *depressa* (B19-2663) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2647.**
- Kuckuck; Marokko [= Morocco]; Tangier, zwischen [= between] Castelle und [= and] Fortre-ciné; 'paa [= on] *Rytiphloea*'; 30.v.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst. konc. foto nr. 82B [= cystocarpic conceptacles photograph number 82B]' and 'emergierend' [meaning unclear]. Collection includes one fragment in a small box marked with collection data and with 'cyst. konc. foto nr. 82B [= cystocarpic conceptacles photograph number 82B]'. Grouped with B19-2649 and a Kuckuck collection of f. *heterophylla* (B19-2665) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2648.**
- Kuckuck; Marokko [= Morocco]; Tangier, zwischen [= between] Castelle und [= and] Fortre-ciné; 'paa klp.? [= on rock?]; 30.v.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Nærmer sig [= grading into] *L. philippii*' and 'emergierend' [meaning unclear]. Annotation slip in box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Grouped with B19-2648 and a Kuckuck collection of f. *heterophylla* (B19-2665) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2649.**
- Phillips; [United Kingdom]; North Wales, Bangor; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B19-2650.**
- Robertson, H.; [United Kingdom]; Scotland, Galloway, Port Logan; [in] rock pools; [no date]; [no slides]; comm. Mr Robertson, x.1907; [no pfa]; [Note: communicator probably Mrs Hannah Robertson because her husband died in 1896]; **TRH B19-2651.**
- Rosenvinge; [France]; Cherbourg; [no habitat data]; 7.iv.1894; [no slides]; [ex] Bot. Mus. Kbhavn [C], number 28; [no pfa]; [no notes]; **TRH B19-2652.**
- Sauvageau; Spain; Gijon; [no habitat data]; 16.ix.-5.x.1895; two unnumbered slides; [no other collection data]; [no pfa]; [Note: box marked '*L. lichenoides* (epifytisk f. [= epiphytic form])' and 'Anther. konc. [= antheridial conceptacles]' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'Sp. konc. [= sporangial conceptacles]'. One slide marked '*L. lichenoides*' and 'Anth. konc. [= antheridial conceptacles]'. Other slide marked '*L. lichenoides*' and 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH B19-2653.**
- Vickers; Frankrig [= France]; Antibes; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Delvis coraillært basalalg [= partly a coral basal layer]']; **TRH B19-2654.**
- Vickers; [France]; Finistère, Roscoff; 'paa [= on] *Corallina*'; 1900; [no slides]; comm. Prof. Sauvageau; [no pfa]; [Note: grouped with a collection of f. *pusilla* (B19-2668) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2655.**
- [Anon.]; [Algeria]; Algier, St. Eugène; [no habitat data]; [no date]; [no slides]; ex herb. Debray [AL, according to Stafleu & Mennega 1998: 130], 'nr. 1 (+ 2 andre æsker [= number 1 (+ 2 other boxes)]]; [no pfa]; [Note: grouped with two other collections of *L. lichenoides* (f. *lichenoides*) (B19-2642, B19-2657) and one of *L. lichenoides* f. *heterophylla* (B19-2666)

under one entry in Adey & Lebednik 1967: 70. Debray is listed as collector on B19-2642 while other collections are marked 'ex herb. Debray'; **TRH B19-2656.**

[Anon.]; [Algeria]; Algier, St. Eugène; [no habitat data]; [no date]; [no slides]; ex herb. Debray [AL, according to Stafleu & Mennega 1998: 130], 'af nr. 1 [= of number 1]'; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with two other collections of *L. lichenoides* (f. *lichenoides*) (B19-2642, B19-2656) and one of *L. lichenoides* f. *heterophylla* (B19-2666) under one entry in Adey & Lebednik 1967: 70. Debray is listed as collector on B19-2642 while other collections are marked 'ex herb. Debray'; **TRH B19-2657.**

[Anon.]; [South Africa]; Cap. B. Spei (Caput Bonae Spei) [= Cape of Good Hope]; [no habitat data]; [no date]; slides 1521, 1530; ex herb. Aresch. [S]; [no pfa]; [Note: collection consists of two slides and a small box with one fragment. Slides marked '*Melobesia patena* det. Aresch. = *L. lichenoides*' and 'Cap. b. spei.' and 'herb. Aresch.'. Box marked '*Melob. patena*' and 'Cap. b. spei.' and 'scr. Aresch.' and 'ex herb. Aresch.' and '= *L. lichenoides*'. Collection not included in Adey & Lebednik 1967; **TRH B19-2355.**

[Anon.]; [United Kingdom]; Scotland, Port Logan, near the Mull of Galloway; [no habitat data]; [no date]; [no slides]; comm. Mrs. Hannah Robertson, Millport; [no pfa]; [Note: collection not included in Adey & Lebednik 1967. Locality data recorded on box cover recorded as Ireland or Scotland, Port Logan near the Mull of Galway]; **TRH B19-2658.**

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number 68; [no pfa]; [Note: box marked 'Koncept. [= conceptacles]'. Grouped with B19-2660 under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2659.**

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number P12"; [no pfa]; [Note: grouped with B19-2659 under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2660.**

***lichenoides*, *Lithothamnion* (f. *agariciformis*)** [originally described as *Millepora agariciformis* (Pallas 1766: 263). Subsequently (Lamarck 1801: 574) transferred without change in rank into *Nullipora*, then (Ehrenberg 1834: 353) into *Pocillopora*, then (Harvey 1847: pl. 73) into *Melobesia*, then (Kützing 1849: 698) into *Spongites*, and then (Falkenberg (1879: 265) into *Lithophyllum*. Next (Hauck 1883a: 269) reduced in rank to *Lithophyllum expansum* β *agariciforme*. Then (Foslie 1897b: 5) re-elevated to species rank and transferred into *Lithothamnion*, as *Lithothamnion agariciforme*, and then (Foslie 1900a: 13) reduced to the rank of forma and treated as *Lithothamnion lichenoides* f. *agariciformis* and Foslie subsequently retained it under that name in publication. Foslie (1904d: 25) noted, however that a number of past placements were based on specimens that belonged to different taxa. Attempts to find and examine original material of Pallas have not been successful (Woelkerling & Irvine 1986a: 57, and Woelkerling 1998b: 248). Collections in Foslie's herbarium marked either '*L. lichenoides* f. *agariciforme*' or '*L. agariciforme*' and listed either under *Lithothamnion lichenoides* without mention of forma or under *Lithothamnion agariciformis* in Adey & Lebednik 1967: 70-71, as noted in individual entries]. **Type:** not designated (Woelkerling 1998c: 248, Athanasiadis 1999: 243). There is no syntype material in **TRH.**

Robertson, H.; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked with collection data and with 'Millport', the place where Mrs Robertson lived. Box labelled '*L. lichenoides* f. *agariciforme*'. Listed without mention of forma under *Lithothamnion lichenoides* in Adey & Lebednik 1967: 70]; **TRH B19-2661.**

Robertson, D.; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; [no date]; slide 1044; comm. Mrs. Hannah Robertson, 1902; pfa: Printz 1929, pl. 11, fig. 11; [Note: box marked '*L. agariciforme*'. Slide marked '*L. lichenoides* f. *agariciformis*'. Listed under *Lithothamnion agariciformis* in Adey & Lebednik 1967: 71]; **TRH B19-2636.**

[Anon.]; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; [no date]; slides 193-194; ex herb. Science & Art Museum Dublin [DBN], number 76; [no pfa]; [Note: box marked '*L. agariciforme*' but both slides marked '*L. lichenoides* f. *agariciformis*'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with B19-2638 as one entry and listed under *Lithothamnion agariciformis* in Adey & Lebednik 1967: 71]; **TRH B19-2637**.

[Anon.]; West Indies (?), [country uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. British Museum [BM], 1899, number 9; [no pfa]; [Note: box marked '*L. lichenoides* f. *agariciforme*' and 'Brudst. af fotogr. ekspl. [= fragment of photographed specimen]'. The resulting photographs form part of B19-2662 and almost certainly are of the **BM** specimen from which the **TRH** fragment originated. Listed without mention of forma under *Lithothamnion lichenoides* in Adey & Lebednik 1967: 70, who omit mention of geographic region]; **TRH B19-2662**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; ex herb. Science & Art Museum Dublin [DBN], number 57; [no pfa]; [Note: box marked '*L. agariciforme*'. Grouped with B19-2637 as one entry and listed under *Lithothamnion agariciformis* in Adey & Lebednik 1967: 71]; **TRH B19-2638**.

lichenoides, Lithothamnion (f. decussata). See listing below for ***lichenoides, Lithothamnion (f. heterophylla)***. Entries for the species *Lithophyllum decussatum* are in Drawer A24.

lichenoides, Lithothamnion (f. depressa) [originally described as *Lithothamnion lichenoides* f. *depressa* (Foslie 1900a: 12) and retained under that name by Foslie in publication. Collection listed in Adey & Lebednik 1967: 70 under species without mention of forma]. **Lectotype: TRH, B19-2663** (see below).

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 18.iv.1899; slide 240; [no other collection data]; [no pfa]; [Note: box marked '*L. lichenoides*' but slide marked '*L. lichenoides* f. *depressa* Fosl.'. Grouped with three collections of *L. lichenoides* (B19-2643, B19-2644 and B19-2646) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2645**.

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 20.iv.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 11, figs 5-7; [Note: **Lectotype** of *Lithothamnion lichenoides* f. *depressa* Foslie. Additional data — Woelkerling 1993: 73. Grouped with a collection of *L. lichenoides* (B19-2647) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2663**.

lichenoides, Lithothamnion (f. epiphytica) [originally described as *Lithothamnion lichenoides* f. *epiphytica* (Foslie 1897b: 4) but then (Foslie 1900a: 12) name needlessly changed to *Lithothamnion lichenoides* f. *pusilla*, where Foslie retained it in publication. The epithet *pusilla* is superfluous (see Woelkerling 1993: 85, 185). Collections listed in Adey & Lebednik 1967: 70 under species without mention of forma]. **Lectotype: TRH, B19-2664** (see below).

Phillips; [United Kingdom]; [England], Anglesey; [no habitat data]; iii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithothamnion lichenoides* f. *epiphytica* Foslie. Additional data — Woelkerling 1993: 84. Box marked '*L. lichenoides*' (without f. *epiphytica*) and 'Wiener Krypt. Tauschanst' (Vienna Cryptogamic Exchange). Basis of lectotypification provided by Woelkerling 1993: 85]; **TRH B19-2664**.

Vickers; [France]; Finistère, Roscoff; 'paa [= on] *Corallina*'; 1900; [no slides]; comm. Sauvageau; pfa: Printz 1929, pl. 11, figs 1-4; [Note: box labelled '*L. lichenoides* f. *pusilla*'. Grouped with a collection of *Lithothamnion lichenoides* (B19-2655) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2668**.

lichenoides, *Lithothamnion* (f. *heterophylla*) [name originally proposed by Foslie (1900a: 13). Subsequently retained under that name by Foslie in publication, but *Lithothamnion lichenoides* f. *heterophylla* is a superfluous for *Lithothamnion agariciforme* f. *decussata* (Woelkerling 1993: 117) and thus **illegitimate** (ICBN Art. 52.1). The type of *Lithothamnion agariciforme* f. *decussata* is the type of *Millepora decussata* Ellis & Solander, which is considered lost or missing (Dixon 1960, Woelkerling 1983b: 304-307, Woelkerling 1998c: 251-252). Collections of 'f. *heterophylla*' listed in Adey & Lebednik 1967: 70 under *Lithothamnion lichenoides* without mention of forma].

Kuckuck; Marokko [= Morocco]; Tangier; 'paa [= on] *Rytiplioea*'; 30.v.1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 11, fig. 8; [Note: grouped with two collections of *Lithothamnion lichenoides* (f. *lichenoides*) (B19-2648, B19-2649) under one entry in Adey & Lebednik 1967: 70]; **TRH B19-2665.**

[Anon.]; [Algeria]; Algier, St. Eugène; [no habitat data]; [no date]; slide 197; ex herb. Debray [AL, according to Stafleu & Mennega 1998: 130], 'af nr. 1 [= of number 1]'; pfa: Printz 1929, pl. 11, fig. 9; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Slide marked '*L. lichenoides* f. *rupicola*'. Grouped with three collections of *L. lichenoides* (f. *lichenoides*) (B19-2642, B19-2656, B10-2657) under one entry in Adey & Lebednik 1967: 70. Debray is listed as collector on B19-2642 while other collections are marked 'ex herb. Debray']; **TRH B19-2666.**

[Anon.]; [France]; Banyuls-sur-Mer; 'sur les rochers batters par la mer [= on boulders battered by the sea]'; ix.1893; slides 195-196 'af største [= of largest]'; ex herb. Flahault [MPU, according to Stafleu & Cowan 1976: 843], collection number 277; pfa: Printz 1929, pl. 11, fig. 10; [Note: box marked '*L. lichenoides* f. *heterophylla* ell. nærmest [= or nearest] f. *agariciformis*'. Collection includes two fragments in a box marked 'Sp. + cyst. concept. [= sporangial + cystocarpic conceptacles]'. Two annotation slips in box marked with collection date and habitat data]; **TRH B19-2667.**

lichenoides, *Lithothamnion* (f. *pusilla*). See listing above for **lichenoides, *Lithothamnion* (f. *epiphytica*)**

Case B, Drawer 20

apiculatum, *Lithothamnion* (f. *connata*) [originally described as *Lithothamnion apiculatum* f. *connata* (Foslie 1895a: 82), where Foslie retained it in publication (but see Foslie 1905c: 39). Collection listed under *Lithothamnion colliculosum* in Adey & Lebednik 1967: 71 without mention of the forma]. **Lectotype: TRH, B20-2669** (see below).

Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; [no slides, but box marked '(jfr. præp. [= cf. slides] 76-77 anden æske [= other box])']; [no other collection data]; pfa: Printz 1929, pl. 21, figs 11-15; [Note: **Lectotype** of *Lithothamnion apiculatum* f. *connata* Foslie. Additional data — Woelkerling 1993: 61-62. Slides 76-77 are with the type collection of *L. colliculosum* f. *pusilla* (B20-2706) and are labelled by Foslie with that name. Box housing B20-2669 marked '*Lithoth. colliculosum* f. *typica*' without mention of the f. *connata*, but the specimens in the box were depicted as *L. colliculosum* f. *connata* in the protologue [namely Foslie 1895a, pl. 15, figs 9-12], and three also were depicted in Printz 1929 under the name *L. colliculosum* f. *pusilla*. Further information provided by Woelkerling 1993: 61-62. Grouped with the lectotype of *Lithothamnion colliculosum* f. *pusilla* (B20-2706) under one entry in Adey & Lebednik 1967: 70. The lectotype of *Lithothamnion apiculatum* (f. *apiculatum*) is in Drawer B25 (B25-2766)]; **TRH B20-2669.**

colliculosum, Lithothamnion [originally described as *Lithothamnion colliculosum* (Foslie 1891a: 43), where Foslie retained it in publication]. **Lectotype:** TRH, B11-2311 (in Drawer B11).

Arwidsson; [Sweden]; Bohuslen, Ellekjær; [no habitat data]; 16.vi.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH B20-2672.**

Arwidsson; [Sweden]; Bohuslen, udenfor [= outside] Gullmarfjorden, Skarpsäter; collection depth: ca 9 metres; 8.vii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 21, fig. 10; [no notes]; **TRH B20-2670.**

Arwidsson; Sweden; Bohuslen, nära [= near] Gullmarfjorden, Strömmarne, Skatholmen; collection depth: ca 7 metres; 15.vii.1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 21, fig. 16; [Note: box marked '(*L. colliculosum* s. med [= mixed with] *L. granii*)'. See C10-3102 for relevant collection of *L. granii*]; **TRH B20-2671.**

Danielsen; [Norway]; Lyngør, Askerøen [now Askerøya], 1 mil fra [= 10 km from] Tvedestrand; collection level: '10 m o.h. [= metres above sea level]' [but see Note]; 1900; slide 1585; [ex] Univ. Min. Inst. [= University Mineralogical Institute]; [no pfa]; [Note: slide marked 'Subfossil'. Annotation slip in box marked 'Desuden [= in addition], Lygtenø, nær [= near] Askerøen' and 'Danielsen' and '0.5-1 m o.h. [= metre above sea level]' and '*Lith. colliculosum* (?) (sandsynlig [= probably])' and 'ekspl. return. [= specimen returned]'. It is not clear whether this refers to another specimen as well as the one collected at '10 m o.h.']; **TRH B20-2674.**

Foslie; [Norway]; Finmarken [now Finnmark], Kvalsund; collection depth: 6-8 fathoms; 17.vii.1891; slide 141; [no other collection data]; pfa: Printz 1929, pl. 21, fig. 1; [Note: box marked '*L. colliculosum* (og [= and] *L. glaciale*)' and 'Ekspl. "141" (= præp.) 2 delte sp. [= specimen "141" (= slide) 2-parted sporangia]']; **TRH B20-2675.**

Foslie; [Norway]; Loppen [now Loppa], Marholmen; collection depth: 10-15 fathoms; 10.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (s. med [= mixed with] *L. laeve*, sten + skjæl [= stone + shell], og [= and] *L. glac.*, hvoraf 2 udt. [= of which two are taken out])' and 'Sp. konc [= sporangial conceptacles]'. See B10-2282 for relevant collection of *L. galciale* and B4-1806 for relevant collection of *L. laeve*]; **TRH B20-2676.**

Foslie; [Norway]; Mandal, udenfor [= outside] Landehovden [now Lande]; collection depth: ca 4 fathoms; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B20-2677.**

Foslie; [Norway]; Skudesnes; 'øverst. sublit., ngt. udsat [= uppermost sublittoral, some exposed]'; 14.vii.1902 [but see Note]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 21, fig. 4; [Note: box marked 'Dubl. i kasse [= duplicates in case]' [probably meaning the hall case in which Foslie originally kept duplicates, but duplicate material is no longer present in the Ancillary Herbarium (Chapter 5) or the Exsiccata set (Chapter 6). Annotation slip in box gives collection date as 24.vii.1902 and not 14.vii.1902 as occurs on box]; **TRH B20-2678.**

Foslie; [Norway]; Trondheimsfjorden, Rissen, Kvithyllen [now Rissa, Kvithyll]; [no habitat data]; viii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?)' and 'Lave sp. konc. [= low sporangial conceptacles]' and 'Ikke sp. [= no sporangia]']; **TRH B20-2679.**

Foslie; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya]; [no habitat data]; 27.vii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]']; **TRH B20-2680.**

Kylin; [Sweden]; Bohuslen, Varberg; [no habitat data]; 25.vi.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '29' and '*Lithoth. colliculosum* ell. [= or] *granii* (og [= and] *Phym. laevigatum?*)']; **TRH B20-2681.**

- Lagerheim; [Sweden]; Bohuslen, Väderö Storö; collection depth: 3 fathoms; viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles] 250-400 μ ']; **TRH B20-2682.**
- Norum; [Norway]; Haugesund; 'straks ovenfor og nedenfor nedre vandstandslinje, lidt beskyttet [= just above and below lower water mark, somewhat protected]'; 25.ii.1898; slides 259-260; [no other collection data]; [no pfa]; [Note: collection consists of specimens and two small round boxes housed in a newer brown box. One small box contains one specimen and some fragments and is marked 'Præp. [= slide] Anderss. 259' and 'Koncept. [= conceptacles]'. Second small box contains one specimen and is marked 'Præp. [= slide] Anderss. 260' and 'Koncept. [= conceptacles]'. 'Anderss.' denotes R.A. Anderson, the name of a slide making company used by Foslie. One annotation slip in box contains collection information. Second annotation slip marked 'Ogsaa hos Batters ekspl. (*f. rosea*) er porerne tem. samlet og ser derved ud som taget lidt nedtrykt midten [= also as Batters specimen (*f. rosea*) the pores are rather joined together and looks therefore depressed in the middle]'. Grouped with B20-2684 under one entry in Adey & Lebednik 1967: 71, who mistakenly list collector as 'Norman']; **TRH B20-2683.**
- Norum; [Norway]; Haugesund; littoral region; 25.ii.1898; [no slides, but see Note]; [no other collection data]; pfa: Printz 1929, pl. 21, figs 3, 8; [Note: grouped with B20-2683 under one entry in Adey & Lebednik 1967: 71, who mistakenly list collector as 'Norman'. Box marked '= præp. [= slides] 259-260', suggesting the two collections are part of the same gathering]; **TRH B20-2684.**
- Ostenfeld; [Denmark]; Limfjorden, Nissum Bredning, udfør Helligsø Teglværk [= outside the brickworks of Helligsø]; collection depth: 3 fathoms; 10.viii.1900; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. glaciale f. colliculosa colliculosum*'. Adey & Lebednik 1967: 71 omit mention of collector]; **TRH B20-2686.**
- Østergren; [Norway]; Rissen, Botten [now Rissa, Botnen], indover til høire fra Strømmen [= inwards to the right from Strømmen]; collection depth: ca 10 fathoms, 'blant døde skaldyr og (død bund) [= among dead crustaceans and (dead bottom)]'; vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Tømte konc. [= empty conceptacles]']; **TRH B20-2687.**
- Øyen; [Norway]; Kragerø, Kalstadtjern [now Kalstadtjenna]; [no habitat data]; 1900; slide 1584; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. colliculosum* (?)'. Slide marked 'subfossil'. Adey & Lebednik 1967: 78 list collector as Quen]; **TRH B20-2688.**
- Wille; Norway; Langesundsfjorden; [no habitat data]; 1888; slides 251-252; [no other collection data]; [no pfa]; [Note: collection consists of a large specimen in an open box, additional material (fragments) in a closed brown box, one fragment in a small round box inside the brown box marked '251' and slides 251 & 252. Annotation slip with material in closed brown box marked '*Lithothamnion fasciculatum* (Lam.) Aresch.' and '*L. colliculosum*' and 'Norge [= Norway], Langesundsfjorden' and '1888' and 'Præp. [= slides] 251-252'. Annotation slip attached to large specimen in open box marked '*Lithothamnion colliculosum*, Norge [= Norway], Langesundsfjorden' and 'Præp. [= slides] 251-252 (see box)'. Collector and collection date given on slide labels but overlooked by Adey & Lebednik 1967: 71]; **TRH B20-2689.**
- [Anon.]; [Norway]; Haugesund; [no habitat data]; 25.ii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. This collection almost certainly was segregated from one of the above two collections of Norum, but collector is not indicated on box]; **TRH B20-2685.**
- [Anon.]; [Norway]; Haugesund; [no habitat data]; 26.iii.1898; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 21, figs 5-7; [Note: grouped with B20-2691 under one entry in Adey & Lebednik 1967: 71. Material with same locality and date and listing Foslie as the collector occurs in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH B20-2690.**
- [Anon.]; [Norway]; Haugesund; 'straks ovenfor og nedenfor nedre vandstandslinje, lidt beskyttet [= just above and below lower water mark, somewhat protected]'; 26.iii.1898;

- [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. [= conceptacles]'. Habitat data on annotation slip in box. Grouped with B20-2690 under one entry in Adey & Lebednik 1967: 71. Material with same locality and date and listing Foslie as the collector occurs in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH B20-2691.**
- [Anon.]; [Norway]; Haugesund, Fæø [now Feøy]; 'nederste vm., udsat [= lowest water mark, exposed]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B20-2692.**
- [Anon.]; [Norway]; Kragerø; [no habitat data]; ca 1890; slides a-b; comm. Ullman; pfa: Printz 1929, pl. 21, fig. 9; [Note: **Superseded neotype** of *Lithothamnium colliculosum* Foslie. Additional data — Woelkerling 1993: 53. Box marked 'Sp. konc. [= sporangial conceptacles] 300-400µ' and 'Sp. 2 delte [= sporangia 2-parted] ca. 160x40'. The lectotype of *Lithothamnium colliculosum* is in Drawer B11. Adey & Lebednik 1967: 71 apparently grouped this collection and B20-2696 under one entry and mistakenly list 'Ullman' as the collector]; **TRH B20-2693.**
- [Anon.]; [Norway]; Kragerø; 'fundet på stranden [= found on the beach]'; 1890 (?); slide c; comm. Ullman; [no pfa]; [Note: box marked '*L. colliculosum* (?)' and 'Ej seet sp. [= sporangia not seen]'. Annotation slip in box has habitat data and also is marked 'dimorph-koncept. [= dimorphic-conceptacles]'. Adey & Lebednik 1967: 71 apparently grouped this collection and B20-2693 under one entry and mistakenly list 'Ullman' as the collector]; **TRH B20-2696.**
- [Anon.]; [Norway]; Kragerø; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH B20-2697.**
- [Anon.]; [Norway]; Lyngør; collection depth: 0.5-1 fathoms; 15.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. colliculosum* (?)' and 'Tømte konc. [= empty conceptacles]' and 'Største ekspl. delvis overv. af *L. lenorm.*, som udtaget [= largest specimen partly overgrown by *L. lenorm.*, which is taken out]'. Collection includes fragments in a small box marked 'Tømte konc. [= empty conceptacles]'. See B5-1953 for relevant collection of *L. lenormandij*]; **TRH B20-2698.**
- [Anon.]; [Norway]; Trondheimsfjorden, Fløan, Skarvholmene [now Skarvholman] (Aasenfjorden [now Åsenfjorden]); collection depth: 'str. nedef. nederste vm. til c. 3 fv. [= just below lowest water mark to ca 3 fathoms]'; 14.viii.1896; slide 279; [no other collection data]; [no pfa]; [Note: box marked 'sp. 2 delte [= sporangia 2-parted]'. Annotation slip in box marked 'Præp. [= slide] Anderss. 279, snit gj. skorpe & gren [= cut across crust & branch]' and 'For grov til at være *frutic.* [= too coarse to be *frutic.*]' and '*L. collic.*'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Grouped with B20-2700 under one entry in Adey & Lebednik 1967: 71]; **TRH B20-2699.**
- [Anon.]; [Norway]; Trondheimsfjorden, Fløan, Skarvholmene [now Skarvholman] (Aasenfjorden [now Åsenfjorden]); collection depth: 'klp. nedef. nederste vm. og til ca 3 fv. [= rock below lowest water mark and to ca 3 fathoms]'; 14.viii.1896; slide 280; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]'. Collection includes one fragment in a small box marked '280'. Habitat data on annotation slip in box that also is marked 'For grov til at være *frutic.* [= too coarse to be *frutic.*]' and '*L. collic.?*'. Grouped with B20-2699 under one entry in Adey & Lebednik 1967: 71]; **TRH B20-2700.**
- [Anon.]; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya], syd for [= south of] Salater; collection depth: 0.5 fathoms, on stones and in rock pools; 6.viii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?)' and 'Konc. tem. utyd. [= conceptacles rather indistinct]' and 'Sp. 2 delte [= sporangia 2-parted]'. Annotation slip in box marked 'Sikkerlig [= surely] *L. collicul.*']; **TRH B20-2701.**
- [Anon.]; [United Kingdom]; Scotland, Cumbrae, Port Bannatyne?; [no habitat data]; [no date]; slide 322; ex herb. E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260], 1899; [no pfa]; [Note: box marked '*Lith. colliculosum* (?)' and '(cfr. [= cf.] Batters ekspl. [= specimen]'. Annotation slip in box marked 'Obs. andet ekspl. blandt *tophif.* [= observed another specimen among *tophif.*]' and 'Tidligere blandt *glac.* [= earlier among *glac.*]' and '*collicul.?*']; **TRH B20-2702.**

[Anon.]; [United Kingdom]; Scotland, Lorningmouth; [no habitat data]; 1901; slide 686; ex herb. E.M. Holmes **BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260]; [no pfa]; [Note: box marked 'Skotland?' and '*L. colliculosum* (?)'. Slide marked '*L. glacial* forma *colliculosum*?' and 'Lornimouth'. Slide not listed on box and not mentioned in Adey & Lebednik 1967: 71]; **TRH B20-2703**.

[Anon.]; Sweden; Bohuslen, Fiskebäckskil; [no habitat data]; viii.1874; slide 255; ex herb. Areschoug **S**]; [no pfa]; [Note: box marked '*Lith. fasciculatum* = *L. colliculosum*']; **TRH B20-2704**.

[Anon.]; [Sweden]; Bohuslen, Grebbestad; [no habitat data]; [no date]; slide 256; ex herb. Areschoug **S**]; [no pfa]; [Note: box marked '*L. colliculosum* (?)' and 'Steril [= sterile]']; **TRH B20-2705**.

***colliculosum*, *Lithothamnion* (f. *laxa*)**. The lectotype collection of f. *laxa* was filed with specimens of *L. glaciale* in Drawer B9, see listing there.

***colliculosum*, *Lithothamnion* (f. *pusilla*)** [originally described as *Lithothamnion colliculosum* f. *pusilla* (Foslie 1905c: 35), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967:71 under species without mention of forma]. **Lectotype: TRH**, B20-2706 (see below).

Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1898; slides 7a-7b, 76-77; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Lithothamnion colliculosum* f. *pusilla* Foslie. Additional data — Woelkerling 1993: 185. Collection consists of one large original round box and two small original round boxes, all housed in a newer brown box. Large box contains 14 specimens. One small box, containing one specimen, marked 'Præp. [= slide] 76-77'. Second small box, containing several fragments, marked 'Sp. konc. [= sporangial conceptacles] 200-300 μ ' and 'Sp. 2 delte [= sporangia 2-parted] 100-130x35-50' and 'Ekspl. = præp. [= specimen = slides] 7 a, b'. Large box marked 'Gl. præp. 7 a, b, af ekspl. paa største sten [= slides 7 a, b, of specimen on largest stone]'. Slides 76-77 marked '*L. colliculosum* f. *pusilla*' but slides 7a-7b marked with an unpublished herbarium name, '*L. obtusatum*'. Slides 76-77 also marked 'Norv. Lith. pl. 15, f. 13' [i.e. Foslie 1895a, pl. 15, fig. 13]. The legend to fig. 13, however, reads *L. colliculosum* f. *connata*, and according to Woelkerling (1993: 62, in comments on f. *connata*), the specimen is missing. The types of both f. *connata* and f. *pusilla* come from the same locality on the same day, and although not indicated by Foslie (1905c: 35), he probably removed some specimens originally identified as f. *connata* and redescribed them as f. *pusilla*. Slides 76-77 also are mentioned on the box housing the type of *connata*. Grouped with the lectotype of *Lithothamnion apiculatum* f. *connata* (B20-2669) under one entry in Adey & Lebednik 1967: 70]; **TRH B20-2706**.

roseum*, *Lithothamnion [originally described as *Lithothamnion roseum* (Batters 1893: 20) but subsequently (Foslie 1895a: 103) reduced to the rank of form and treated as *Lithothamnion colliculosum* f. *roseum* and then (Foslie 1905c: 35) treated as a 'saltem pro parte!' heterotypic synonym of *L. colliculosum* (f. *colliculosum*). Chamberlain & Irvine 1994b: 183 list *Lithothamnion roseum* as a heterotypic synonym of *L. glaciale*. Collections listed in Adey & Lebednik 1967: 71 under *Lithothamnion colliculosum*]. **Type:** apparently not designated (Woelkerling 1993: 191). **TRH** has two syntypes (B20-2707, B20-673).

Batters; [United Kingdom]; [England], Berwick [= Berwick-upon-Tweed]; [no habitat data]; ii.1888; slide 140 and two slides numbered 1 and 2 respectively; [no other collection data]; pfa: Foslie 1895a, pl. 17, figs 15-16, and Printz 1929, pl. 21, fig. 2; [Note: **Syntype** of *Lithothamnion roseum* Batters. Additional data — Woelkerling 1993: 191. Box marked '*Lithothamnion roseum* Batters = *colliculosum*'. Locality details taken from protologue

(Batters 1893: 20). Chamberlain & Irvine 1994b: 183, 188 list *Lithothamnion roseum* as a heterotypic synonym of *L. galciale*. Adey & Lebednik 1967: 71 mistakenly list collection locality as 'Berwick (County) Scotland'; **TRH B20-2707**.

Batters; [United Kingdom]; [England], Berwick [= Berwick-upon-Tweed]; [no habitat data]; i.1889; [no slides]; ex herb. Thuret - Bornet [PC]; [no pfa]; [Note: **Syntype** of *Lithothamnion roseum* Batters. Additional data — Woelkerling 1993: 191. Original box marked '*L. colliculosum* f. *rosea*' and contains two fragments. Locality details taken from protologue (Batters 1893: 20). Chamberlain & Irvine 1994b: 183, 188 list *Lithothamnion roseum* as a heterotypic synonym of *L. galciale*. Adey & Lebednik 1967: 71 mistakenly list collection locality as 'Berwick (County) Scotland']; **TRH B20-2673**.

Case B, Drawer 21

delapsum, *Lithothamnion* [originally (Foslie 1895a: 78) described as *Lithothamnion delapsum* (f. *abbreviata*) (*L. delapsum* f. *abbreviata* = *L. delapsum* f. *delapsum* — see Woelkerling 1993: 14, 72) but later (Foslie 1905c: 39) considered a heterotypic synonym of *Lithothamnion fornicatum* f. *robustum*. The type of *Lithothamnion delapsum* was found with other collections of *Lithophyllum fornicatum* f. *robustum* in Foslie's herbarium. Collection listed in Adey & Lebednik 1967: 71 under *Lithothamnion fornicatum* without mention of forma]. **Lectotype: TRH, B21-2708** (see below).

[Anon.]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 15.vi.1889; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 14, fig. 1; [Note: **Lectotype** of *Lithothamnion delapsum* Foslie. Additional data - Woelkerling 1993: 72. Collection housed in a closed box. Lectotype label marked '*Lithothamnion delapsum* f. *delapsum* (syn. f. *abbreviata*)'. The name 'f. *abbreviata*' is superfluous for 'f. *delapsum*'. Accompanying slip with faintly written collection data also marked '*L. fornic.* f.', reflecting Foslie's (1905: 39) later view that *L. delapsum* f. *delapsum* (as f. *abbreviata*) was a heterotypic synonym of *L. fornicatum* f. *robustum*]; **TRH B21-2708**.

fornicatum, *Lithothamnion* [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13, B22-B26 and C14]. **Lectotype: TRH, B21-2712** (see below).

Foslie; [Norway]; Tromsø amt. [= Tromsø county], Melangen [now Malangen], Mestervik; [no habitat data]; 15.vi.1889; slides 148-149 and one unnumbered slide; [no other collection data]; pfa: Foslie 1891a, [no plate or figure specified]; [Note: collection consists of one large specimen housed in open box and associated slides and annotation slips. Specimen is depicted at the bottom of pl. 1 in Foslie 1891a. Foslie listed as collector on the unnumbered slide. Slides list pfa data and also are marked '*Lith. delapsum* (f. *abbreviata*)'. Green tag attached to specimen marked 'Præp. [= slides] 148-49'. One annotation slip marked 'Mestervik, Melangen, 15.vi.1889' and '2 ekspl. [= two specimens]' and '*L. fornicatum*-*delapsum*'. Second annotation slip marked 'Smaa celler [= small cells]'. Third annotation slip marked 'Afb. [= pictured] Contrib. II.' and '*L. fornicatum* og [= and] *L. glac.* f. *botrytoides*?'. Fourth annotation slip marked 'Afb. [= pictured] Contrib. II.' and '*L. delapsum*'. Additional data on names provided in Woelkerling 1993: 72]; **TRH B21-2709**.

Foslie; [Norway]; Tromsø amt. [= Tromsø county], [Malangen], Mestervik; [no habitat data]; 20.ix.1890; slide 1596 and one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists of one large specimen and two fragments housed in an open box with associated slide and annotation slips. One green tag attached to specimen marked 'Præp. [= slide] 1596' on one side and 'Analyse n. 7'. Second green tag marked

'Sp. konc. [= sporangial conceptacles]'. One annotation slip marked 'koncept. [= conceptacles]' and 'Analyse nr 7'. Another annotation slip marked 'Godt snit ingen sporer [= fine cut without spores]'. Additional material with same collector, species name, locality and date occurs in ancillary herbarium (see Chapter 5) and in *Lithothamnium Selecta Exsiccata* (see Chapter 6); **TRH B21-2710**.

Foslie; [Norway]; Tromsø, Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; slide 1597; [no other collection data]; [no pfa]; [Note: collection includes one specimen (broken into two pieces), one slide, one annotation slip with collection information and one annotation slip with cell measurements housed in a closed box. Another annotation slip with collection data marked 'præp. 150 & 1597 til fotogr. [= slides 150 & 1597 for photography]. Slide 150 belongs to B21-2712. Additional material with same collector, species name, locality and date occurs in ancillary herbarium (see Chapter 5) and in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH B21-2711**.

[Foslie]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; slides 150-151; [no other collection data]; pfa: Foslie 1891a, pl. 2 [bottom specimen]; [Note: **Lectotype** of *Lithothamnium fornicatum* Foslie 1891a:38. Additional data - Woelkerling 1993: 97, and Woelkerling & Verheij 1995: 52, and Woelkerling 1998c: 345. Collection housed in an open box and consists of one large specimen and one fragment. Green tags on large specimen marked 'Præp. [= slide] 150' and 'Præp. [= slide] 151'. Fragmentary specimen unmarked. One annotation slip marked 'Mestervik' and 'f. *subphaer.*, f. *obcraterif.*, f. *robusta*, og 1 ekspl. [= and one specimen] Lyngø nær [= near] Tromsø', suggesting that several formae occur and that material from a second locality originally was present. Another annotation slip with collection data marked 'præp. 150 & 1597 til fotogr. [= slides 150 & 1597 for photography]'. Slide 1597 belongs to B21-2711. Collector not indicated but presumed to be Foslie as he is so listed on two other collections (B21-2710, B21-2711) from the same locality and date. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5) and in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH B21-2712**.

[Foslie]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; [no slides, but see Note]; [no other collection data]; pfa: Foslie 1891a, [no plate or figure specified]; [Note: collection includes one large and three smaller specimens housed in an open box with two annotation slips. Green tag on largest individual marked 'Contrib. II, pl.' [the specimen is depicted at the top of pl. 2 in Foslie 1891a]. One annotation slip marked 'Stk. udt. fotogr. [= piece taken out for photography]'. Second slip marked '*L. delapsum*' and 'Melangen, Mestervik, 20.ix.1890' and 'Præp. [= slide] xxx' and '.....kastet [= thrown]'. Slide is no longer present. Collector not indicated but presumed to be Foslie as he is so listed on two other collections (B21-2710, B21-2711) from the same locality and date. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5) and in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH B21-2713**.

[Foslie]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 14, fig. 2; [Note: Collection housed in a closed box. Collector not indicated on box but presumed to be Foslie as he is so listed on two other collections (B21-2710, B21-2711) from the same locality and date. Accompanying slip of paper marked '*L. delapsum* (f. *abbreviata*)' and '*L. fornic. delvis* [= in part]'. Additional material with same locality and date and identified as *L. fornicatum* occurs in ancillary herbarium (see Chapter 5) and in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH B21-2714**.

[Anon.]; [Norway]; Lyngø [now Lyngøya]; [no habitat data]; vi.1892; [no slides]; [no other collection data]; [no pfa]; [Note: Lyngø mentioned as a locality in Foslie 1895a: 68. Collection housed in a closed box]; **TRH B21-2715**.

fornicatum, *Lithothamnium* (f. *robustum*) [originally described as *Lithothamnium fornicatum* f. *robustum* (Foslie 1895a: 64), where Foslie retained it in publication. Collections listed in

Adey & Lebednik 1967: 71 under species without mention of forma]. **Lectotype:** TRH, B21-2716 (see below).

Foslie; [Norway]; Mestervik; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 9, fig. 3, and Printz 1929, pl. 35, fig. 4; [Note: collection contains one specimen housed in a closed box. Green tag attached to specimen marked with pfa data. Accompanying slip with collection data incorrectly refers to pl. 34 rather than pl. 35 and also is marked 'MF [= M. Foslie]' and 'sammenv. med [= coalesced with] *L. glac.?*'. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH B21-2720.**

Foslie; [Norway]; Tromsø amt. [= Tromsø county], Melangen [now Malangen], Mestervik; [no habitat data]; 20.ix.1890; slides 152-153 and one slide marked b [broken]; [no other collection data]; pfa: Foslie 1895a, pl. 9, fig. 1, and Printz 1929, pl. 35, fig. 3; [Note: collection contains two specimens housed in an open box. Green tag attached to one specimen marked 'Lith. Mon. pl. 35, f. 3' and '= Norw. Lith. pl. 9, f. 1'. Green tag attached to other specimen marked 'Præp. [= slide] 152'. Green tag not attached to either specimen marked 'Præp. [= slide] 153 + b'. Accompanying slip with some collection data marked '*L. fornicatum* f. *robusta*' and explicitly mentions all three slides, but incorrectly refers to pl. 34 rather than pl. 35. Accompanying annotation slip marked 'Tydelige celler og firdelte sp. [= clearly cells and 4-parted sporangia]'. Slide b marked 'firdelte sporang.! [= 4-parted sporangia!]' and '*Lithothamnion glaciale* Kjellm. *intermedium* f. *grandifrons*' and 'Tromsø amt [= county], Mestervik' and '20.ix.1890' and 'M. Foslie'. '*L. intermedium* f. *grandifrons*' apparently is an unpublished herbarium name. Additional material of *L. fornicatum* f. *robusta* with same locality and date data occurs in ancillary herbarium (see Chapter 5)]; **TRH B21-2718.**

[Anon.]; [Norway]; Mestervik, [Malangen]; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; pfa: Foslie 1891a, pl. 1 (lower specimen), and Foslie 1895a, pl. 9, fig. 4; [Note: **Lectotype** of *Lithothamnion fornicatum* f. *robusta* Foslie. Additional data - Woelkerling 1993: 190. Collection housed in a closed box. Annotation slip in box marked 'Afb. [= pictured] Contrib. II' refers to fig. in Foslie 1891a. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH B21-2716.**

[Anon.]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; slide a; [no other collection data]; [no pfa]; [Note: collection housed in a closed box. One annotation slip marked *L. formic.* f. *robusta*' and 'Mestervik, 20.ix.1890' and 'koncept. [= conceptacles]'. Second annotation slip marked '*L. pallescens?*' and 'Ej skarpt begr. [= not sharply limited]' and 'sp. koncept. [= sporangial conceptacles]'. Third annotation slip marked '*L. interm.* f. *grandifrons*' and 'Mestervik, 20.ix.1890' and 'Præp. [= slide] a'. Slide 'a' marked '*L. interm.* f. *grandifrons* *L. pallescens?*' and 'Mestervik, 20.ix.'. '*L. interm.* f. *grandifrons*' apparently is an unpublished herbarium name. All other Foslie herbarium collections of *L. pallescens* (Drawer A20) originate from the Gulf of California, Mexico. Additional material of *L. fornicatum* with same locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH B21-2717.**

[Anon.]; [Norway]; [Mestervik], [Malangen]; [no habitat data]; [20.ix.1890]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 9, fig. 2; [Note: collection contains one specimen housed in a closed box. Green tag attached to specimen marked with pfa data. Other collection data based on information with lectotype and in Foslie 1895a. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH B21-2719.**

[Anon.]; [Norway]; Mestervik, [Malangen]; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 35, fig. 2; [Note: collection includes three larger individuals and some smaller individuals and pieces housed in a closed Norwegian 'postpakke [= postal parcel]' box. Green tag attached to one specimen marked with pfa data. One annotation slip has locality and collection date information. Second annotation slip marked '2 ekspl. [= two specimens] f. *robusta* udt. fotogr. [= taken out for photography]'.

Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5); **TRH B21-2721**.

Case B, Drawer 22

All specimens in Drawer B22 were collected in Skjørn [now Stjørna], a region of Fosen. Within Skjørn, the more exact collection localities of Dalsøren [now Daleøra] or Selnes were provided for some but not all collections. Dalsøren and Selnes are situated on Sørfjorden, an arm of Stjørnfjorden, in turn an arm of Trondheimsfjorden.

dehiscens, *Lithothamnion* [originally described as *Lithothamnion dehiscens* (Foslie 1895a: 72) but subsequently treated by Foslie (1900i: 12, 1905c: 39) as a heterotypic synonym of *Lithothamnion fornicatum*. Additional data - Woelkerling 1993: 71-72. All specimens in Drawer B22 originally were identified by Foslie as *Lithothamnion dehiscens*, but were filed by Foslie with *Lithothamnion fornicatum* in his herbarium without updating the names. Except for the lectotype, all collections are entered here under *L. fornicatum* (see below)]. **Lectotype: TRH, B22-2727** (see below).

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna], Selnes; [no habitat data]; 21.vii.1894; slide 144 and slides 1a & 1b; [no other collection data]; pfa: Foslie 1895a, pl. 12, fig. 2; [Note: **Lectotype** of *Lithothamnion dehiscens* (f. *dehiscens*) Foslie. Additional data - Woelkerling 1993: 71 (without mention of Selnes), and Woelkerling & Verheij 1995: 46, and Woelkerling 1998c: 339. Collection now housed in a white envelope. Green tag attached to specimen marked 'Norv. Lith. pl. 12, f. 2 [= Foslie 1895a, pl. 12, fig. 2]' on one side and 'Præp. [= slides] 144 + 1a + b' on the other side. Accompanying annotation slip has collection date and also is marked 'Norv. Lith. pl. 12, f. 2' and 'Skjørn' and '*L. dehiscens* f. *typica*'. All slides have collection date. Slide 1a also marked 'Selnes, Skjørn' and '21.vii.1894' [not 20.vii.1894 as the other collections in B22. Slide 1b also marked 'Skjørn'. Slide 144 also marked 'Skjørn' and '*L. dehiscens* f. *typica*' and 'Norv. Lith. pl. 12, f. 2'. Collection listed under *Lithothamnion fornicatum* in Adey & Lebednik 1967: 72]; **TRH B22-2727**.

fornicatum, *Lithothamnion* [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13, B21, B23-26 and C14]. **Lectotype: TRH, B21-2712** (in Drawer B21).

Note: All specimens in Drawer B22 originally were identified by Foslie as *Lithothamnion dehiscens*, but were filed by Foslie with *Lithothamnion fornicatum* in his herbarium without updating the names. All collections (except the lectotype of *L. dehiscens*) listed here under *L. fornicatum*. Adey & Lebednik 1967: 72 also listed the collections under *L. fornicatum*.

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in an open box]; **TRH B22-2722**.

[Anon.]; [Norway]; [Trondheimsfjorden], [Stjørna]; [no habitat data]; 20.vii.1894; slide 1595 and slide 1x; [no other collection data]; [no pfa]; [Note: collection consists of one large specimen housed in an open box with slides and two annotation slips with cell and conceptacle dimensions. One slip also marked 'spor. 4 delte [= sporangia 4-parted]'. Green tag attached to specimen marked 'Præp. [= slide] 1595']; **TRH B22-2723**.

- [Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; slide e; specimen number 6b; [no pfa]; [Note: collection includes three small boxes (two round and one quadratic) with fragments housed within a larger closed box. Annotation slip marked 'Smaa enp. konc. til fotogr., udtaget herfra [= small uniporate (enporede) conceptacles for photography, taken out from here]'. One small round box marked '*L. fornic.*' and 'Præp. [= slide] e' and 'Skjørn, 20.vii.1894'. Other small round box contains three fragments and is marked 'Skjørn, 20.vii.1894' and 'stk. 6b [= piece 6b]' and 'Smaa enp. konc. [= small uniporate (enporede) conceptacles]'. Quadratic box marked 'Præp. [= slide] e' and 'Skjørn, 20.vii.1894'. Annotation slip inside quadratic box marked 'Sp. 4 delte [= sporangia 4-parted]']; **TRH B22-2724.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a closed box. Two annotation slips occur with one marked 'Sporoc. koncept. [= sporocarpic (????) conceptacles]'. The meaning of 'Sporoc.' is uncertain]; **TRH B22-2725.**
- [Anon.]; [Norway]; [Trondheimsfjorden], [Stjørna]; [no habitat data]; [20.vii.1894]; slide 1594 [missing]; [no other collection data]; pfa: Foslie 1895a, pl. 11, fig. 1; [Note: green tag attached to specimen marked 'Norv. Lith. pl. 11' [without mention of figure]. Specimen depicted in the protologue of *Lithothamnion dehiscens*. Collection housed in an open box and now broken into two pieces]; **TRH B22-2726.**
- [Anon.]; [Norway]; [Trondheimsfjorden], [Stjørna]; [no habitat data]; [20.vii.1894]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two specimens housed in an open box. Accompanying annotation slip marked '4 delte sp. [= 4-parted sporangia]']; **TRH B22-2732.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a closed box. Annotation slip marked 'Konc. [= conceptacles]'. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B22-2728.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna], Selnes; [no habitat data]; 20.vii.1894; slide 5; [no other collection data]; [no pfa]; [Note: collection housed in a closed box. One annotation slip marked 'Vistn. overv. konc. [= probably overgrown conceptacles]'. Another annotation slip marked 'Grønalger [= green algae]']; **TRH B22-2730.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna], Selnes; [no habitat data]; 20.vii.1894; slide 2; [no other collection data]; [no pfa]; [Note: collection housed in a closed box and accompanied by four annotation slips. One slip marked 'Hab. nær [= habit close to] *congregatum*' and 'Overv. konc. sp. 4 delte [= overgrown conceptacles sporangia 4-parted 40x95-100]'. Second slip marked 'Selnes, Skjørn, 20.vii.1894' and 'nr. 2'. Third slip marked '4 delte sp. [= 4-parted sporangia]'. Fourth slip marked 'Overv. konc. = *dehiscens*, men her for at vise overg.! [= overgrown conceptacles = *dehiscens*, but in this case showing a transition!]']; **TRH B22-2729.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna], Selnes; [no habitat data]; 20.vii.1894; one slide numbered 4; [no other collection data]; [no pfa]; [Note: collection consists of a closed newer brown box containing two specimens, one small original round box with four fragments, two annotation slips and one slide. Small round box marked 'nr. 4' and 'Smaa enp. konc. [= small uniporate (enporede) conceptacles]'. One annotation slip marked 'Selnes, Skjørn, 20.vii.1894' and 'nr. 4' and 'Sporoc. konc. [= sporocarpic conceptacles]' and 'Finder ei overv. konc. [= found no overgrown conceptacles]' and 'konc. [= conceptacles] 400-(500)'. The meaning of 'Sporoc.' is uncertain. Second annotation slip marked 'Smaa enp. konc. til fotogr. udtaget herfra [= small uniporate (enporede) conceptacles taken out from here for photography]'. Slide marked with locality and date and with '*L. dehiscens*']; **TRH B22-2731.**

Case B, Drawer 23

During the present study, Foslie's label (marked '*Lithothamnion, Eulithothamnion, fornicatum*' and 'B23') for Drawer B23 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion fornicatum*. It has been placed in an envelope marked 'Label for the original wooden Drawer B23 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'. In addition, a loose green tag was found in Drawer B23 that could not be linked to any collection. The tag refers to a non-existent figure in Printz 1929 and is marked 'Lith. Mono. Pl. 30, f. 12.'. Plate 30 in Printz 1929, however, has only four figures, none of which is *L. dehiscens* or *L. fornicatum*. The tag has been placed in an envelope in B23 labelled 'Loose tag found in Drawer B23 that does not make sense'. 'Lith. Mono.' refers to Printz 1929, but plate 30 in that book has only 4 specimens (figures), none of which is *L. fornicatum*'.

dehiscens, Lithothamnion (f. grandifrons). See listing below for ***fornicatum, Lithothamnion (f. grandifrons)***

fornicatum, Lithothamnion [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13, B21-B22, B24-B26 and C14]. **Lectotype: TRH, B21-2712** (in Drawer B21).

[Anon.]; [Norway]; [Finnmark], Hasfjord [now Hasfjorden], Hasvik, Brandholmen [now Brannholmen]; [no habitat data]; 21.vi.1897; slide 1603; [no other collection data]; pfa: Printz 1929, pl. 34, figs 3-4; [Note: collection housed in an open box and consists of one large specimen, one small specimen, two fragments in a small round box, one slide, and five annotation slips. Green tag attached to large specimen marked 'Lith. Mon. pl. 34, f. 4 [= Printz 1929, pl 34, fig. 4]'. Green tag attached to small specimen marked 'Lith. Mon. pl. 34, f. 3 [= Printz 1929, pl 34, fig. 3]'. Small box marked 'Hasfjord, Brandholmen, 21.vi.1897' and '*L. fornicatum*' and 'Sp. konc. [= sporangial conceptacles]'. One annotation slip marked '3. største ekspl. – Præp. 1603 = fotogr. [= third largest specimen – slide 1603 = photographed]'. Second slip marked 'Sp. konc. udtaget af lille æske (til fotografering) [= sporangial conceptacles taken out of small box (for photography)]'. Third slip marked 'Hab. lig. *dimorph.*, konc. ligesaa! [= in habit looks like *dimorph*, conceptacles as well!]''. Fourth slip marked with locality and date data. Fifth slip marked with cell measurements for slide 1603. The ancillary herbarium (Chapter 5) contains additional material from the same locality and date identified as *Lithothamnion fornicatum*. The ancillary herbarium contains further material from the same locality and date filed under *Lithothamnion glaciale* but said on annotation slip to be mixed with *L. fornicatum* and *Phymatolithon*]; **TRH B23-2733**.

[Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 9.vii.1894; slide 2 [missing]; [no other collection data]; [no pfa]; [Note: collection housed in a closed box]; **TRH B23-2734**.

[Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 9.vii.1894; slide 3 [missing]; [no other collection data]; [no pfa]; [Note: collection housed in a closed box. Accompanying slip marked 'Præp. 3 overv. konc. nær denne form men hult [= slide 3 overgrown conceptacles close this form but hollow]' and 'Herø, 9.vii.1894' and 'i kasse i skabet [= in a case in the cabinet]']; **TRH B23-2735**.

[Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a white envelope]; **TRH B23-2736**.

[Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a white envelope]; **TRH B23-2737**.

- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a white envelope]; **TRH B23-2738.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a white envelope]; **TRH B23-2739.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a white envelope]; **TRH B23-2740.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a white envelope]; **TRH B23-2741.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one very large specimen and an annotation slip with collection data housed in an open box]; **TRH B23-2742.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 28.viii.1894; slide 3 [missing]; [no other collection data]; pfa: Printz 1929, pl. 34, fig. 2 (incorrectly marked as pl. 33 on tag attached to specimen); [Note: collection housed in a closed box. Collection includes one fragment in a small box marked 'Herø' and '= præp. [= slide] 3' and '*L. fornicatum*' and 'Sp. konc. [= sporangial conceptacles]'. Accompanying annotation slip marked 'Herø, 28.viii.1894' and '*L. dehiscens*' and 'Præp. [= slide] 3' and 'Sp. konc. overvoksnes men m. faatall, med snit 150-200µ [= sporangial conceptacles overgrown but with few in number, with cut 150-200µ]' and 'Sp. 4 delte [= sporangia 4-parted]']; **TRH B23-2743.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 28.viii.1894; slide 3; [no other collection data]; [no pfa]; [Note: collection consists of two large specimens housed in an open box along with the slide and one specimen in a small box marked '= præp. [= slide] 3' and 'Sp. konc. [= sporangial conceptacles]'. Annotation slip marked 'Herø, 28.viii.1894' and 'Præp. [= slide] 3' and 'overv. koncept. [= overgrown conceptacles]'. Additional material with same locality and date occurs in ancillary herbarium (Chapter 5) but bears the name *Lithothamnion dehiscens*. Foslie (1895a: 72) first described *L. dehiscens* as a distinct species but later (Foslie 1900i: 12, 1905c: 39) treated it as a heterotypic synonym of *L. fornicatum*]; **TRH B23-2744.**

***fornicatum*, *Lithothamnion* (f. *grandifrons*)** [originally described as *Lithothamnion dehiscens* f. *grandifrons* (Foslie 1895a: 73). Later Foslie (1900i: 12) considered the species *L. dehiscens* to be conspecific with *L. fornicatum*, and he transferred (Foslie 1900i: 12) f. *grandifrons* into *L. fornicatum* but needlessly changed the name to f. *tuberculata* (see Woelkerling 1993: 110, 227. Collections listed in Adey & Lebednik 1967: 72 under *Lithothamnion fornicatum* without mention of forma]. **Lectotype:** TRH, B23-2745 (see below).

- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 9.vii.1894; slide 145 and slides 1-2; [no other collection data]; pfa: Foslie 1895a, pl. 13, fig. 3, and Printz 1929, pl. 36, fig. 1; [Note: **Lectotype** of *Lithothamnion dehiscens* f. *grandifrons* Foslie. Additional data - Woelkerling 1993: 110 and Woelkerling & Verheij 1995: 56]; **TRH B23-2745.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 13, fig. 1; [Note: collection housed in an open box]; **TRH B23-2746.**
- [Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 20.viii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 13, fig. 2; [no notes]; **TRH B23-2747.**

fornicatum, *Lithothamnion* (f. *tuberculata*). See listing above for *Lithothamnion fornicatum* f. *grandifrons*. The epithet *tuberculata* is a superfluous substitute for the epithet *grandifrons*. Additional data - Woelkerling 1993: 110, 227.

Case B, Drawer 24

During the present study, Foslie's label for Drawer B24 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion fornicatum*. It now has been placed in an envelope marked 'Label for the original wooden Drawer B24 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

fornicatum, *Lithothamnion* [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13, B21-B23, B25-26 and C14]. **Lectotype: TRH, B21-2712** (in Drawer B21).

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 37, [fig. 1]; [Note: collection housed directly on a shelf and consists of one specimen approximately 41 cm in diameter only part of which is shown in Printz 1929, pl. 37. Accompanying note marked 'Herfra 1 ekspl. fotogr. [= from here one specimen photographed]'. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5), where it is identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (see Woelkerling 1993: 160). Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) using the name *Lithothamnion fornicatum* f. *obcrateriformis*, with Foslie listed as collector and with the modern locality name Sør-Trøndelag, Stjørna]; **TRH B24-2748**.

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: specimen is approximately 30 cm in diameter and is housed in a transparent plastic bag. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5), where it is identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (see Woelkerling 1993: 160). Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) using the name *Lithothamnion fornicatum* f. *obcrateriformis*, with Foslie listed as collector and with the modern locality name Sør-Trøndelag, Stjørna]; **TRH B24-2749**.

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: specimen is approximately 27 cm in diameter and is housed in a transparent plastic bag. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5), where it is identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (see Woelkerling 1993: 160). Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) using the name *Lithothamnion fornicatum* f. *obcrateriformis*, with Foslie listed as collector and with the modern locality name Sør-Trøndelag, Stjørna]; **TRH B24-2750**.

Case B, Drawer 25

During the present study, one note was found in Drawer B25 that could not be linked with certainty to any collection. The note has been placed in an envelope marked 'Loose note found in Drawer B25 that could not be matched with any collection in Foslie's herbarium'.

apiculatum, Lithothamnion. See listing below for **fornicatum, Lithothamnion (f. apiculata)**. *Lithothamnion apiculatum* Foslie ultimately was treated by Foslie (1905c: 38) as a forma of *L. fornicatum*

apiculatum, Lithothamnion (f. parvicocca). See listing below for **fornicatum, Lithothamnion (f. apiculata)**. *Lithothamnion apiculatum* f. *parvicocca* Foslie ultimately was treated by Foslie (1905c: 38) as a synonym *L. fornicatum* f. *apiculatum*

dimorphum, Lithothamnion. See listing below for **fornicatum, Lithothamnion (f. dimorphum)**. *Lithothamnion dimorphum* Foslie ultimately was treated by Foslie (1905c: 38) as a forma of *L. fornicatum*

fornicatum, Lithothamnion [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13, B21-B24, B26 and C14]. **Lectotype: TRH, B21-2712** (in Drawer B21).

Collett; [Norway]; Bodø; collection level: '15-20 m o.h. [= metres above sea level]'; 1901; [no slides]; ex Univ. Min. Inst. [= University Mineralogical Institute]; [no pfa]; [Note: box marked '(Subfossil)'. Collector not mentioned in Adey & Lebednik 1967: 72. Additional subfossil material with same species name, locality but without date occurs in ancillary herbarium (Chapter 5)]; **TRH B25-2751.**

Ekman; [Norway]; Kristiansund; [no habitat data]; [no date]; slides 253-254; ex herb. Are-schoug [S]; [no pfa]; [Note: box marked '*L. fornicatum* f.'. Box and one annotation slip marked 'Mindste ekspl. [= smallest specimen] *collic.*?' and 'Ej sp. [= no sporangia]'. Second annotation slip marked 'Ligner [= looks like] *fornic.*'. Third annotation slip marked 'Sp. konc. [= sporangial conceptacles] 400-500 μ ' and 'Ikke funnet sp. [= spores not found]'. Fourth annotation slip marked 'Præp. [= slide] 253' and 'Sands. [= probably] *L. dimorphum*'. Adey & Lebednik 1967: 72 mistakenly list the collector as 'Ekkman']; **TRH B25-2752.**

Foslie; [Norway]; Tusteren [now Tustna]; collection depth: 1-3 fathoms; 10.viii.1898; slides 305-308; [no other collection data]; [no pfa]; [Note: box marked '*L. fornicatum*?'. Three of four specimens present are annotated with green tags. One tag marked '= præp. [= slide] 305-306'. Second tag marked '= præp. [= slide] 307-308'. Third tag marked 'Sp. konc. [= sporangial conceptacles] 300-400 μ ' and 'Ej sp. [= no spores]'. Accompanying annotation slip marked 'Sp. konc. [= sporangial conceptacles] 300-400 (500) μ ' and 'Ikke fundet sp. [= spores not found]' and 'Dubl. i gangsk., ligesaa sterile ekspl. fra 1906 [= duplicates in corridor cabinet, likewise sterile specimens from 1906]'. Slides 305-306 marked 'M.F.' indicating that Foslie collected the material. Annotation slip with slide 306 marked 'Ligner. [= looks like] *fornic.*'. Collection also includes one fragment in a small box marked '305'. Additional material with same species name, locality (with added details Skjælsund in the vicinity of Linvaagen) and date occurs in ancillary herbarium (see Chapter 5) in a crate that also contains material collected on 19.vii.1906. The 19.vii.1906 material is represented in the main herbarium by a collection of *Lithothamnion tusterense* in Drawer C9 (C9-3090)]; **TRH B25-2765.**

Foslie; [Norway]; Vadsø; 'opk. stranden [= washed ashore the beach]'; 1.viii.1882 and 1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fornicatum* (?) (s. med [= mixed with] *L. breviaxe* (?))' and 'Subfossil?'. It was not possible to separate specimens collected in 1882 from those collected in 1887]; **TRH B25-2754.**

Foslie; [Norway]; Valdersund [now Vallersund]; collection depth: ca 2 fathoms [but see Note]; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of material in a small box and material in a glass vial. Small box marked with collector, locality and date and also marked 'Cyst. konc. [= cystocarpic conceptacles]'. Label on outside of vial and annotation slip in vial marked with locality and date. Collection depth given as 'ca. 2 fathoms' on outside vial label but given as 'ca. 1 fathom' on annotation slip inside

- vial. Collector's name taken from information with further 15.vii.1908 Foslie collections of *L. fornicatum* from Valdersund in Drawer B13 (B13-2346, B13-2347, B13-2348); **TRH B25-2757.**
- Gran; [Norway]; Romsdalen, Vestnes, Flatvaagen [now Flatevågen]; [no habitat data]; iii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. fornicatum* f.' and '(Indelukket pold [= enclosed round fjord with narrow inlet])' and '4 delte sp. [= 4-parted sporangia] 120x60']; **TRH B25-2755.**
- Holmboe; [Norway]; Sydvaranger [now Sør-Varanger], Kirkenes; collection level: '15 m o.h. [= metres above sea level]'; 1902; [no slides]; ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked 'Brudst. af lidet ekspl. paa sten [= fragment of small specimen on stone]']; **TRH B25-2756.**
- Palibin; [Norway]; Bergens omegn [= environs of Bergens]; [no habitat data]; 1903; [no slides]; Palibin collection number 2; [no pfa]; [Note: box annotation indicates that Dr Johan Palibin is from St. Petersburg. Box also marked '*L. dimorphum L. fornicatum* f.' and '4 delte sp. [= 4-parted sporangia]'. Annotation slip in box marked 'Overv. konc. [= overgrown conceptacles]' and '(periph.)']; **TRH B25-2758.**
- Øyen; [Norway]; Ørlandet, Ophaug [now Opphaug]; [no habitat data]; 1901; [no slides]; ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked '(Subfossil)'. Adey & Lebednik 1967: 72 list collector as Quen]; **TRH B25-2759.**
- Øyen; [Norway]; Ørlandet, Røen, Aune; [no habitat data]; 30.vii.1901; slide 1581; [presumably ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo] (see B25-2762)]; [no pfa]; [Note: box marked 'Subfossil' and '*Lith. fornicatum* (?)' and 'Obs. tildels lange celler [= observed some long cells]'. Grouped with B25-2761 and B25-2762 under one entry in Adey & Lebednik 1967: 72, who list the collector as Quen]; **TRH B25-2760.**
- Øyen; [Norway]; Ørlandet, Røen, Aune; [no habitat data]; 30.vii.1901; slide 1582; [presumably ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo] (see B25-2762)]; [no pfa]; [Note: box marked 'Subfossil'. Grouped with B25-2760 and B25-2762 under one entry in Adey & Lebednik 1967: 72, who list the collector as Quen]; **TRH B25-2761.**
- Øyen; [Norway]; Ørlandet, Røen, Aune; [no habitat data]; 30.vii.1901; [no slides]; ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: grouped with B25-2760 and B25-2761 under one entry in Adey & Lebednik 1967: 72, who list the collector as Quen]; **TRH B25-2762.**
- [Anon.]; [Norway]; Bodø, under "Myren" bag byen [= under the bog behind the city]; [no habitat data]; 1894; slide 1325; [no other collection data]; [no pfa]; [Note: box marked 'Subfossil' and 'Dubl. i gangskabet [= duplicates in corridor cabinet]' [but not in Ancillary Herbarium (Chapter 5)]. Adey & Lebednik 1967: 72 omit mention of slide]; **TRH B25-2764.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Garten ved [= near] Bejan [now Beian]; 'lige under græstorven i en delvis udvasket skjælbanke ved stranden [= just under the green turf in a partly washed-out shell bank near the beach]'; 7.vii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 23, figs 10-15; [Note: box marked '*Lithoth. fornicatum* f. (ialf. delvis [= at least partly])' and 'Dubl. i gangskabet [= duplicates in corridor cabinet]'. Foslie (1895a: 187) regarded the material as fossil and provided comments, and on pl. 23 used the name '*L. fruticosum?*'. Collection not included in Adey & Lebednik 1967. Additional 'subfossil' material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5). Collection also represented in *Lithothamnia Selecta Exsiccata* (see Chapter 6). Exsiccata box label gives modern locality name (Sør-Trøndelag, Ørland, Garten) and material is identified as *Lithothamnion fornicatum* f. *dimorpha*]; **TRH B25-2763.**

fornicatum, *Lithothamnion* (f. *apiculata*) [originally described as *Lithothamnion apiculatum* (Foslie 1895a: 82) but subsequently (Foslie 1905c: 38) reduced to the rank of form and treated as *Lithothamnion fornicatum* f. *apiculata*. Collections listed in Adey & Lebednik 1967: 72 under *Lithothamnion fornicatum* without mention of forma]. **Lectotype: TRH, B25-2766** (see below).

[Foslie]; [Norway]; [Trondheimsfjorden], Bejan, Smælingsraasa [now Beian, Smellingflua]; collection depth: ca 10 fathoms 'og mindre [= and shallower]'; 7.vii.1894; slides 11, 71-73; [no other collection data]; pfa: Foslie 1895a, pl. 15, figs 1-4, and Printz 1929, pl. 33, figs 1-4, 6-7; [Note: **Lectotype** of *Lithothamnion apiculatum* f. *apiculatum* Foslie. Additional data — Woelkerling 1993: 29. Large round box marked 'Fig. 5 afk. præp. nr. 11 med 4 delte sp. [= fig. 5 decalcified slide number 11 with 4-parted sporangia]'. Specimens in large round box numbered 1-4, 6-7 to denote figs in Printz 1929. Slide 11 marked '*Lithothamnion*' and '4 delte sp. [= 4-parted sporangia]'. Annotation slip in large round box marked 'Sp. konc. til fotogr. udtat. [= sporangial conceptacles for photography taken out]' and 'pl., fig. 6. øvrige ekspl. ikke konc. [= pl., fig. 6. remaining specimens no conceptacles]'. Collection includes fragments in a small box marked 'Norv. Lith. pl 15, f.1' and 'sp. konc. [= sporangial conceptacles]'; **TRH B25-2766**.

[Foslie]; [Norway]; [Trondheimsfjorden], Bejan, Smælingsraasa [now Beian, Smellingflua]; [no habitat data]; 7.vii.1894; slides 74-75; [no other collection data]; pfa: Foslie 1895a, pl. 15, fig. 8; [Note: **Lectotype** of *Lithothamnion apiculatum* f. *parvicocca* Foslie. Additional data — Woelkerling 1993: 170. Lectotype includes specimen in Foslie 1895a, pl. 15, fig. 8. Box marked '*L. fornicatum* f. *apiculata*?' while slides labelled '*L. apiculatum* f. *parvicocca*'. Annotation slip in box marked 'Anth. konc. i silkepapir [= antheridial conceptacles in silk paper]' and 'desuden ogsaa cyst.? [= in addition also cystocarpic?]'; **TRH B25-2767**.

Foslie; [Norway]; [Trondheimsfjorden], Bejan, Smælingsraasa [now Beian, Smellingflua]; collection depth: ca 10 fathoms 'og mindre [= and shallower]'; 7.vii.1894; slides 9, 12; [no other collection data]; [no pfa]; [Note: box marked '(delvis med former af [= in part with forms of] *L. nodulosum*?)' and 'Ngl. faa cyst. konc. [= a few cystocarpic conceptacles]'. Collection includes a small box marked with locality, habitat and date data and with '*L. fornicatum* f. *apiculata*' and 'Mindste ekspl. (delte) afk. præp. nr. 9, med 4 delte sp. [= smallest specimen (divided) decalcified slide number 9, with 4-parted sporangia]' and 'afk. præp. nr. 12 med 4 delte sp., største ekspl. [= decalcified slide number 12 with 4-parted sporangia, largest specimen]'. Slide 9 marked '*L. apiculatum* f. *connata*'. Slide 12 marked '*Lithothamnion*' and '4 delte sp. [= 4-parted sporangia]'. Collection apparently not included in Adey & Lebednik 1967]; **TRH B25-2768**.

fornicatum, *Lithothamnion* (f. *dimorphum*) [originally described as *Lithothamnion dimorphum* (Foslie 1895a: 68) but subsequently (Foslie 1905c: 38) reduced to the rank of form and treated as *Lithothamnion fornicatum* f. *dimorpha*. Collections listed in Adey & Lebednik 1967: 72 under *Lithothamnion fornicatum* without mention of forma]. **Lectotype: TRH, B25-2773** (see below).

Foslie; [Norway]; Frøerne [now Froan], Hestvær, et af sundene udenf. [= one of the straits outside] Sauøen [now Sauøya]; collection depth: 1-3 fathoms; 16.vii.1894; slide 1604 and slide 2; [no other collection data]; [no pfa]; [Note: collection includes specimens, slides, annotation slips and a two small round boxes housed in a large original quadratic box. Quadratic box marked '*L. fornicatum* f. (nærmest [= nearest] *dimorpha*)'. Annotation slip in quadratic box marked 'firdelte sporer [= 4-parted spores]'. Slide 2 marked with locality and date and with '*L. dehiscens* f.' [Foslie treated *L. dehiscens* as a heterotypic synonym of *L. fornicatum*]. Collection includes fragments in a small box with an attached annotation slip marked 'Sp. konc. til fotogr. udtaget herfra [= sporangial conceptacles for photography taken out from here]' and 'største ekspl. [= largest specimen]'. Other small round

- box (with three fragments) marked 'Frøerne, Hestvær' and '16.vii.1894' and 'nr. 1 (2 præp. [= 2 slides])' and 'Sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967. Additional material with same locality and date and labelled '*L. fornicatum* forma' occurs in ancillary herbarium (Chapter 5); **TRH B25-2769**.
- Foslie; [Norway]; Frøjen, Manholmen [now Frøya, Mannholman]; [no habitat data]; 11.vii.1894; slide 1593; [no other collection data]; [no pfa]; [Note: box marked '*L. fornicatum* f. (nærmest [= nearest] f. *dimorpha*)'. Collection includes one specimen in a small box marked with locality and date and with 'Præp. [= slide] 1593'. Annotation slip in small box marked 'Ligner [= looks like] *fornic.*'. Collection not included in Adey & Lebednik 1967]; **TRH B25-2772**.
- Foslie; [Norway]; Frøjen [now Frøya], Rottingsundet; [no habitat data]; 10.vii.1894; slides 154, 157, one slide numbered 1, two slides numbered 2 and two slides numbered 3; [no other collection data]; pfa: Foslie 1895a, pl. 10, figs 1, 3, 5-6; [Note: **Lectotype** of *Lithothamnion dimorphum* Foslie. Additional data — Woelkerling 1993: 74, and Woelkerling & Verheij 1995: 47, and Woelkerling 1998c: 341. Collection consists of an original large box with 13 specimens (one broken) and several small fragments, and a smaller box with two specimens and three annotation slips. Green tags on some specimens in large box marked with figure numbers from Foslie 1895a. One annotation slip in smaller box marked 'Præp. 154, cell. som præp. 155 [= slide 154, cells as slide 155]'. Second slip marked 'nr. 3' and '2 delte sp. i snit [= 2-parted sporangia in cut]'. Third slip marked 'Præp. 157 ligner præp. 603 fra Hasfjord [= slide 157 looks like slide 603 from Hasfjord]'. Slide 603, however, belongs to a collection of *Lithophyllum expansum* f. *stictaeformis* (A25-1474) from the Adriatic Sea. Complete entry in Adey & Lebednik 1967: 72 reads 'New Lith. 10 (1-4, 6)'. Additional material with same name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B25-2773**.
- Foslie; [Norway]; Frøjen [now Frøya], Rottingsundet; [no habitat data]; 11.vii.1894; slides 155-156; [no other collection data]; pfa: Foslie 1895a, pl. 10, figs 2, 4, and Printz 1929, pl. 33, figs 12-13; [Note: collection contains two specimens, one with a green tag marked 'Norv. Lith., pl. 10, fig. 4 [= Foslie 1895a, pl. 10, figs 2, 4]'. One annotation slip in box marked 'Ikke konc. [= no conceptacles]'. Another annotation slip has locality and date data and is also marked 'Lith., pl. 10, fig. 4' and 'Præp. Anderss. 155, 156'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Adey & Lebednik 1967: 72 do not mention this collection but mistakenly list slides 155 and 156 as belonging to the collection of 31.i.1895 (B25-1775), listed just below]; **TRH B25-2774**.
- Foslie; [Norway]; Frøjen [now Frøya], Rottingsundet; [no habitat data]; 31.i.1894 [but see Note]; two unnumbered slides; [no other collection data]; pfa: Printz 1929, pl. 33, figs 8-11; [Note: collection consists of a large original quadratic box with two smaller round boxes, slides and annotation slips. The date 31.i.1894 appears on two slides, two annotation slips, and on the lid of one of the two small boxes that form part of the collection. The original date of 31.i.1894 on the lid of the quadratic box, however, has been overwritten with 31.i.1895. One annotation slip in quadratic box marked '31.i.1894' and '3 ekspl. udt. fotogr. [= three specimens taken out for photography]'. Another annotation slip in quadratic box marked 'Konc. [= conceptacles]'. One slide marked '*L. dimorphum*' in addition to '31.i.1894'. Small round box with lid contains fragments and is marked with collection data and with 'sp. konc. [= sporangial conceptacles]'. Other small box lacks lid but contains one specimen and two annotation slips. One slip marked 'Frøjen, Rottingsundet, 31.i.1894' and 'Præp. x concept. [= slide x conceptacles]' [neither of the unnumbered slides is marked 'x']. Second slip marked 'Sp. konc. til fotogr. udtaget herfra [= sporangial conceptacles for photography taken out from here]'. Adey & Lebednik 1967: 72 mistakenly include slides 155-156 with this collection rather than B25-2774, and they list the Printz 1929 figs as '18-13']; **TRH B25-2775**.
- Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Kjeøsundet [strait near Kjeøya] ell. [= or] Skotnessjøen; collection depth: 1-3 fathoms; 21.ix.1897; slide 1598; [no other collection data]; [no pfa]; [Note: box marked '*L. fornicatum* f. *dimorpha* ell. nærst. [= or nearest]'].

Annotation slip in box marked 'Skjævt snit, smaa celler [= oblique cut, small cells]'. Collection separated from B25-2771 by Foslie as noted in a box annotation on B25-2771]; **TRH B25-2770.**

Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Kjeøsundet [strait near Kjeøya] ell. [= or] Skotnessjøen; collection depth: 1-3 fathoms; 21.ix.1897; [no slides but, box marked 'præp. særsk. æske [= slide distinct box]'; [no other collection data]; [no pfa]; [Note: box marked '*L. fornicatum* f. *dimorpha* ell. nærst. [= or nearest]' and '1 ekspl. 4-delte sp. [= one specimen 4-parted sporangia]' and 'Dubl. i gangsk. [= duplicates in corridor cabinet]'. No collection with corresponding collection data occurs in the ancillary herbarium (Chapter 5) or the *Lithothamnium Selecta Exsiccata* (Chapter 6). Collection includes six specimens, one of which is marked '4 delte sp. [= 4-parted sporangia]' and another marked 'Cyst. konc. [= cystocarpic conceptacles]'. Collection also includes fragments in a small box marked 'af. ekspl. mk. cyst. konc. [= from specimen marked cystocarpic conceptacles]'. B25-2771 not included in Adey & Lebednik 1967. The associated slide, deliberately separated by Foslie, is in B25-2770]; **TRH B25-2771.**

***fruticulosum*, *Lithothamnium* (f. *fastigiata*)** [originally described as *Lithothamnium fruticosum* f. *fastigiata* (Foslie 1895c: 46) but subsequently treated by Foslie (1905c: 38) as a heterotypic synonym of *Lithothamnium fornicatum* f. *dimorpha*. Collections listed in Adey & Lebednik 1967: 72 under *Lithothamnium fornicatum* without mention of forma. Collections of the species *Lithothamnium fruticosum* are in Drawer B6]. **Lectotype: TRH, B25-2777** (see below).

Foslie; [Norway]; Bejan [now Beian], Beiskjæret; [no habitat data]; 6.vii.1894; slides 158-159 and four slides marked 1, 2, 3 and 3; [no other collection data]; pfa: Foslie 1895a, pl. 5, figs 5, 7; [Note: **Lectotype** of *Lithothamnium fruticosum* f. *fastigiata* Foslie. Additional data — Woelkerling 1993: 91 and Woelkerling & Verheij 1995: 52. Large original box marked '*L. fornicatum* f. (nærmest [= nearest] f. *dimorpha*)'. Large original box contains two unmarked specimens and seven specimens respectively marked 'Præp. [= slides] 158-159', 'a', 'b', 'nr. 1', 'nr. 2', 'nr. 3', and 'Norv. Lith. pl. 5, f. 5'. Large original box also contains three small boxes, all with fragments. One small box marked '970' includes an annotation slip marked 'Flerporede konc. [= several-pored conceptacles] ca 300 μ '. Second small box marked '986' and 'A' includes an annotation slip marked 'A' and 'Bejan, Beiskjæret, 7.vii.1894' [not 6.vii.1894 as on box lid] and 'Flerporede konc. [= several-pored conceptacles] 300 μ ' and 'ca 40 porer [= pores]'. Third small box marked 'B' includes an annotation slip marked 'Flerporede konc. [= several-pored conceptacles] 300-340 μ ' and '45 porer [= pores]'. The meaning of the numbers '970' and '986' is uncertain. Slides 158-159 both marked '*L. ungeri* f. *fastigiata*' and also marked 'Norv. Lith. pl. 5, f. 7 [= Foslie 1895, pl. 5, fig. 7]'. Slide 1 marked '*L. interm.* f. *glomer.*'. Slide 2 and one of the two slides numbered 3 marked '*L. interm.*'. Annotation slip with collection marked 'Præp. nr. 2 [= slide number 2]' and 'Sporang. [= sporangia] 100x40, 4 delte [= 4-parted]' and 'nærmest [= nearest] f. *fastigiata*'. Another annotation slip marked 'nr. 2' and 'Flerporede konc., ca 40 porer [= several-pored conceptacles, ca 40 pores]']; **TRH B25-2777.**

Foslie; [Norway]; Bejan [now Beian], Korsholmen; [no habitat data]; 7.vii.1894; slides 4-5; [no other collection data]; pfa: Foslie 1895a, pl. 5, figs 1-4, 6 [as *Lithothamnium fruticosum* f. *fastigiata*]; [Note: **Paratype** of *Lithothamnium fruticosum* f. *fastigiata* Foslie. Collection consists of a large original quadratic box with several specimens, three smaller round boxes, two slides, and some annotation slips. Green tags on specimens variously marked 'nr. 4' or 'Norv. Lith. pl. 5, fig. 1', or 'Norv. Lith. pl. 5, fig. 2', or 'Norv. Lith. pl. 5, fig. 3', or 'Norv. Lith. pl. 5, fig. 4', or 'Norv. Lith. pl. 5, fig. 6'. One small box (containing one specimen) marked 'Cyst. konc. [= cystocarpic conceptacles] 600-700 μ ' and '(9.1905)'. Second small box (containing one specimen) marked 'Korsholmen, Bejan, 7.vii.1894' and '*L. fornicatum* f.' and 'Sp. konc. [= sporangial conceptacles] 300-400, sp. 4 delte [= sporangia 4-parted] – ca. 100x40-60 μ ' and 'nr. 5 afk. præp. med sp. [= number 5 decalcified slide,

with sporangia]. Third small box contains three fragments and is marked with date and locality and also marked ' = præp. [= slide] 5' and 'Sp. konc. [= sporangial conceptacles]' and 'Af large grøn æske [= from large green box]'. Annotation slip in third box marked with conceptacle dimensions for sporangial conceptacles, cystocarpic conceptacles and some small uniporate conceptacles. Slide 4 marked '*L. interm. formic.?*' and '*f. fastigiata*'. Slide 5 marked '*f. fastigiata*'. One annotation slip marked '4 delte sp. [= sporangia 4-parted]'. Second slip marked 'Præp. nr. 4, sporang. 4 delte [= slide number 4, sporangia 4-parted] 50x115'. Third slip marked 'Enporede konc. [= uniporate conceptacles] ca 400µ = Norv. Lith. pl. 5, fig. 6. [= Foslie 1895]' and '9.1905'. Fourth slip marked 'Ikke fundet concept. [= conceptacles not found]' and '9.1905'. Fifth slip marked 'Grønalgler [= green algae]'. '9.1905' may refer to the date of re-examination of the collection by Foslie. Adey & Lebednik 1967: 72 mistakenly include slides 74 and 75 with this collection, but these slides form part of the lectotype collection of *Lithothamnion apiculatum* f. *parvicocca* (B25-2768). Additional material with same locality and date occurs in ancillary herbarium (Chapter 5) but is labelled *Lithothamnion fornicatum* f. *dimorphum*. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) under the name *Lithothamnion fornicatum* f. *dimorphum* and with the modern locality name (Sør-Trøndelag, Ørland, Korsholmen)]; **TRH B25-2753**.

Case B, Drawer 26

During the present study, Foslie's label for Drawer B26 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion fornicatum*. The label is marked '*Lithothamnion, Eulithothamnion ~~ungeri~~ fornicatum*' and 'B26'. It now has been placed in an envelope marked 'Label for the original wooden Drawer B26 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'. Adey & Lebednik 1967: 72 provided one entry for Drawer B26 indicating that 15 specimens were present and that all of these were collected at Skjørn, Dalsøren (as Daløen) [now Stjørna, Daleøra] on one of three different dates: 20.vii.1894, viii.1896, or viii.1897. During the present study, 11 collections (each composed of 1-4 specimens) were found. Five collections came from Skjørn, Dalsøren, three from Skjørn (with no further location given), one from Skjørn, Selnes and one from Mestervik. Six are dated 2.vii.1894, three are dated ix.1896 (not viii.1896) and one is dated 15.viii.1897. The eleventh collection lacked associated information. Details follow.

fornicatum, *Lithothamnion* [originally described as *Lithothamnion fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13, B21-B25 and C14]. **Lectotype: TRH, B21-2712** (in Drawer B21).

Foslie; [Norway]; Trondheimsfjorden, Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 34, fig. 1; [Note: collection housed in an open box and consists of the specimen depicted in Printz 1929 and one specimen broken into two but placed in a closed box. Box marked 'Halvd. fotogr. [= one part photographed]'. Grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2778**.

Foslie; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes one specimen housed in a large round box. Large round box marked '*L. fornicatum* (*L. dehiscens*)' and 'Analyse nr. 6' and 'sp. konc. [= sporangial conceptacles]'. Annotation slip in large round box marked 'Sp. konc. til fotogr. [= sporangial conceptacles for photography]' and 'Udtat herfra [= taken out from here]' and '(Daarlige konc. [= not fine concep-

tacles]'. Collection includes fragments in a small box marked with species name and locality, and with 'Analyse 1' and 'Sp. konc. [= sporangial conceptacles]'. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5) but without mention of Foslie as collector. Ancillary herbarium crates said to contain specimens of f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160) and specimens of f. *subsphaerica*, a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. B26-2779 grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2779.**

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen housed in an open box. Accompanying annotation slip marked 'Sporangie-koncept. [= sporangial conceptacles]'. Grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2780.**

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen housed in an open box. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5) (there identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* - see Woelkerling 1993: 160). Also note a collection *Lithothamnion fornicatum* f. *obcrateriformis* in *Lithothamnium Selecta Exsiccata* (Chapter 6) of the same date and from the same locality (using the modern name Sør-Trøndelag, Stjørna) with Foslie listed as collector. Also note a further collection labelled *Lithothamnion fornicatum* f. *subsphaerica* + f. *obcrateriformis* in *Lithothamnium Selecta Exsiccata* (Chapter 6) of the same date and from the same locality (using the modern name Sør-Trøndelag, Stjørna) with Foslie listed as collector. No collection of this date and locality containing both formae occurs in main herbarium or ancillary herbarium. B26-2783 grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2783.**

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes two specimens housed in an open box and fragments in a small closed box marked with species name, locality and 'Cyst. konc. [= cystocarpic conceptacles]'. One annotation slip marked 'Cyst. konc. til fotogr. udtat herfra [= cystocarpic conceptacles for photography taken out from here]'. Another annotation slip marked 'Cyst. konc. [= cystocarpic conceptacles]'. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5) but without mention of Foslie as collector. Ancillary herbarium crates said to contain specimens of f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160) and specimens of f. *subsphaerica*, a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. B26-2781 grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2781.**

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen housed in an open box. Annotation slip with collection data also marked '2 ekspl. [= two specimens]'. Additional material from Skjørn with same species name and date occurs in ancillary herbarium (Chapter 5) (there identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* - see Woelkerling 1993: 160) + f. *subsphaerica* (a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. B26-2784 grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2784.**

[Anon.]; [Norway]; [Trondheimsfjorden], [Skjørn, Dalsøren, now Stjørna, Daleøra]; [no habitat data]; [ix.1896]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of four specimens housed in an open box. Collection data taken from B26-2784. One ac-

companioning annotation slip marked 'Enporede konc. [= uniporate conceptacles]' and two other annotation slips marked 'Konc. [= conceptacles]'. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5) (there identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* - see Woelkerling 1993: 160) + f. *subsphaerica* (a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. B26-2785 grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2785**.

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna], Selnes; [no habitat data]; 20.vii.1894; slide 1594; [no other collection data]; [no pfa]; [Note: collection consists of one specimen housed in a closed box. Green tag attached to specimen marked 'Præp. [= slide] 1594'. Annotation slip in box has locality, date, and slide number and also is marked 'nr. 6'. Grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2782**.

[Anon.]; [Norway]; [Malangen], Mestervik; [no habitat data]; 28.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 36, fig. 2; [Note: collection consists of one specimen housed in an open box. Information on accompanying label is very faint. Small green tag attached to specimen contains pfa data. Grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2786**.

***fornicatum*, *Lithothamnion* (f. *sphaerica*)** [originally described as *Lithothamnion fornicatum* f. *sphaerica* (Foslie 1900i: 12) but subsequently (Foslie 1905c: 38) name needlessly changed to *Lithothamnion fornicatum* f. *subsphaerica* (see Woelkerling 1993: 205, 213). Collection listed in Adey & Lebednik 1967: 72 under species without mention of *forma*]. **Holotype:** TRH, B26-2789 (see below).

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa with collection, but depicted in Foslie 1895a, pl. 12, fig. 1 as *Lithothamnion dehiscens*]; [Note: **Holotype** of *Lithothamnion fornicatum* f. *sphaerica* Foslie. Additional data — Woelkerling 1993: 204. Collection consists of one specimen housed in a closed box. Green tag attached to specimen contains pfa data. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5) without mention of Foslie as collector. Ancillary herbarium crates said to contain specimens of f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160) and specimens of f. *subsphaerica*, a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. B26-2789 grouped with all other Drawer B26 collections under one entry in Adey & Lebednik 1967: 72]; **TRH B26-2789**.

Inadequately documented collection

The following inadequately documented collection was found in Drawer B26 during the present study.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection lacks all data and consists of one large unidentified specimen in an open box. Collection not explicitly included in Adey & Lebednik 1967]; **TRH B26-2787**.

Case B, Drawer 27

During the present study, Foslie's label for Drawer B27 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion ungeri*. The label is marked '*Lithothamnion, Eulithothamnion ungeri*' and 'B27'. It now has been placed in an envelope marked 'Label for the original wooden Drawer B27 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

fruticulosum, Lithothamnion (f. corymbiformis). See listing below and in Drawer B28 for ***ungeri, Lithothamnion (f. corymbiformis)***

fruticulosum, Lithothamnion (f. flexuosa). See listing below and in Drawer B28 for ***ungeri, Lithothamnion (f. flexuosa)***

trophiforme, Lithothamnion (f. flexuosa). See listing below and in Drawer B28 for ***ungeri, Lithothamnion (f. flexuosa)***

ungeri, Lithothamnion [originally described as *Lithothamnion ungeri* (Kjellman 1883: 120), where Foslie retained it in publication. Additional collections are in Drawer B 28]. **Type:** apparently not designated (see Note). **TRH** has one syntype (B27-2800).

Note: Kjellman (1883: 120) based *L. ungeri* on an account (Unger 1858: 19-20, pl. 5, figs 1-8) of material that Unger had identified as *Lithothamnion byssoides* and on specimens collected by Foslie at Tromsø in September. Unger (1858: 19) indicated that the specimen he saw was collected from the coast of Bergen and was housed in '...des Naturalien-Cabinetes der Universität Christiania' (**O**), while Kjellman (1883: 120) stated that Unger saw material from the coast of Norway that was preserved in the Museum of Bergen (**BG**). Kjellman (1883: 120) indicated that he had seen the specimens sent by Foslie and these agreed with the description and figures of Unger (1858). Kjellman returned at least some of the material Foslie sent, namely the specimens in B27-2800, which is regarded here as syntype. Whether further syntype material is amongst Kjellman's collections at **UPS** or is still present in **O** has not been determined during the present study. Scandinavian records for the species are summarized by Athanasiadis (1996: 45).

Foslie; [Norway]; Altenfjord [now Altafjorden], Sopnes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. ungeri* (?)'. Annotation slip in box marked 'Ingen sporer [= without spores]']; **TRH B27-2790**.

Foslie; [Norway]; Tromsø; [no habitat data]; 23.ix.1882; [no slides]; [no other collection data]; [no pfa]; [Note: **Syntype** of *Lithothamnion ungeri* Kjellman. Additional data – see Note above and Foslie 1905c: 44-47. Inadvertently overlooked by Woelkerling (1993). Box marked 'det. Kjellm.' and '(og [= and] *Phym. invest.*)'. Adey & Lebednik 1967: 73 mistakenly list the locality as 'Tamsø']; **TRH B27-2800**.

[Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; slide b; [no other collection data]; pfa: Printz 1929, pl. 27, figs 1-2, 4-5; [Note: collection contains four specimens in an open box. Green tags on three specimens give pfa information. Another green tag on one specimen marked 'Præp. [= slide] b'. Slide b marked 'Tromsø. 15.viii.1890' and '*L. interm. ungeri*'. Grouped with two other Tromsø collections of *L. ungeri* dated 15.viii.1890 (B27-2793, B27-2794), a Skorpen [now Skorpa] collection of *L. ungeri* dated 8.ix.1890 (B27-2891) and the lectotypes of *Lithothamnion fruticosum* f. *corymbiformis* (B27-2804) and *Lithothamnion fruticosum* f. *flexuosa* (B27-2805) under one entry in Adey & Lebednik 1967: 73. Additional material of *L. ungeri* dated 15.viii.1890 occurs in ancillary herbarium (Chapter 5)]; **TRH B27-2792**.

- Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 29, fig. 2; [Note: collection consists of one specimen in a white envelope. Green tag attached to specimen gives pfa information. Grouped with two other Tromsø collections of *L. ungeri* dated 15.viii.1890 (B27-2792, B27-2794), a Skorpen [now Skorpa] collection of *L. ungeri* dated 8.ix.1890 (B27-2891) and the lectotypes of *Lithothamnion fruticosum* f. *corymbiformis* (B27-2804) and *Lithothamnion fruticosum* f. *flexuosa* (B27-2805) under one entry in Adey & Lebednik 1967: 73. Additional material of *L. ungeri* dated 15.viii.1890 occurs in ancillary herbarium (Chapter 5)]; **TRH B27-2793.**
- [Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 29, fig. 3; [Note: collection consists of one specimen in a white envelope. Green tag attached to specimen gives pfa information. Grouped with two other Tromsø collections of *L. ungeri* dated 15.viii.1890 (B27-2792, B27-2793), a Skorpen [now Skorpa] collection of *L. ungeri* dated 8.ix.1890 (B27-2891) and the lectotypes of *Lithothamnion fruticosum* f. *corymbiformis* (B27-2804) and *Lithothamnion fruticosum* f. *flexuosa* (B27-2805) under one entry in Adey & Lebednik 1967: 73. Additional material of *L. ungeri* dated 15.viii.1890 occurs in ancillary herbarium (Chapter 5)]; **TRH B27-2794.**
- Foslie; Norway; Tromsø; [no habitat data]; 30.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: duplicate box prepared by O. Gjærevoll after Foslie's death for the *Lithothamnion Selecta Exsiccata* (see Woelkerling 1993: 9-10). Box has printed exsiccata label with collection data, references to three papers (Foslie 1895a, 1900i, 1905c), and the name *Lithothamnion ungeri* Kjellm. f. *typica* Fosl. Collection not included in Adey & Lebednik 1967]; **TRH B27-3837.**
- Foslie; [Norway]; Tromsø, Lanes; [no habitat data]; 30.viii.1897; slide 1623; [no other collection data]; [no pfa]; [Note: box marked '*L. ungeri* f. *typica*'. collection includes one fragment in a small box marked 'Sp. konc. [= sporangial conceptacles] 300-400 μ ' and '*L. ungeri* f. *typica*' and '3 kasser i skabet [= 3 cases in the cabinet]'. One annotation slip in box also marked '3 kasser i skabet [= 3 cases in the cabinet]'. Another annotation slip marked 'Sp. konc. til fotogr. udtaget herfra [= sporangial conceptacles for photography taken out from here]'. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5). The *Lithothamnion Selecta Exsiccata* (Chapter 6) contains a Tromsø collection dated 30.viii.1896, not otherwise represented in main herbarium or ancillary herbarium]; **TRH B27-2795.**
- Foslie; [Norway]; Tromsø amt. [= Tromsø county], Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a closed box marked '*L. ungeri* (?)'. Annotation slip in box marked 'Ikke fundet sporer [= spores not found]'. Grouped with three Tromsø collections of *L. ungeri* dated 15.viii.1890 (B27-2792, B27-2793, B27-2794) and the lectotypes of *Lithothamnion fruticosum* f. *corymbiformis* (B27-2804) and *Lithothamnion fruticosum* f. *flexuosa* (B27-2805) under one entry in Adey & Lebednik 1967: 73]; **TRH B27-2791.**
- Jónsson; Island [= Iceland]; N.V. Island [= north-west Iceland], Bildudalur; [no habitat data]; 7.v.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 28, fig. 4; [Note: box marked '*L. ungeri* nærmest [= nearest] f. *typica*'. Collection includes two small boxes. One box (with two fragments) marked 'Island [= Iceland]' and 'Koncept. af store ekspl. [= conceptacles of large specimen]'. Other small box (also with two fragments) marked with collection data and also marked 'Sp. konc. [= sporangial conceptacles]'. Collection includes three annotation slips. One slip marked '*L. ungeri* f. *typica*' and 'Obs. konc. store ekspl. og flere smaa [= observed conceptacles large specimen and several small]'. Second slip marked 'Et par af disse ekspl. nærmer sig betydelig dels til *flabell.* dels til *diverges.* Obs. konc. n. som hos *sofif.*! [= a couple of these specimens are very close to *flabell.* partly *diverges.* Observed conceptacles somewhat like *sofif.*!]. Third annotation slip marked '4 delte sp. og enkelte 2 delte [= 4-parted sporangia and some 2-parted]']; **TRH B27-2796.**
- Jónsson; Island [= Iceland]; Selstadaun; collection depth: 9-19 fathoms; 16.vi.1898; [no slides]; [number] 136; [no pfa]; [Note: collection consists of fragments in a small round

box placed in a brown box. Enclosed annotation slip containing collection data also marked '*L. ungeri* forma?'. Collection not included in Adey & Lebednik 1967]; **TRH B27-2802.**

[Anon.]; Island [= Iceland]; Palyx Fjord; [no habitat data]; vi.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box annotated to indicate that this collection is from specimen 41 which Heydrich (1901a: 540) identified as *Lithothamnion soriferum* f. *typica* but which Foslie (1901d: 26) later re-identified as *L. ungeri* f. *typica*. The annotation also mentions Cap de la Manche, a locality not cited by Heydrich (1901a) or Foslie (1901d). Adey & Lebednik 1967: 73 give locality data as 'Cap de la Manche, Palyxfjord, Irland (?)']; **TRH B27-2797.**

[Anon.]; [Norway]; Sydvaranger, Kjelmø [now Sør-Varanger, Kjelmøya]; collection depth: 4-6 fathoms; 3.viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]' and '*L. ungeri* (?)' and '*fornicatum?*'. Annotation slip in box marked 'Flerporede konc. [= several-pored conceptacles]']; **TRH B27-2798.**

[Anon.]; [Norway]; Tamsø [now Tamsøya]; collection depth: 10-12-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: information labels mention the species '*glac.*', '*polym.*', '*investiens*' and '*toph.*'. Collection includes two small boxes. One small box has one fragment and is marked 'Tamsø, 30.vii.1897' and '*L. ungeri*' and 'Sp. konc. [= sporangial conceptacles]'. Second small box has one specimen and is marked 'Tamsø, 30.vii.1897' and 'Sp. konc., 4 delte [= sporangial conceptacles 4-parted]'. Annotation slip in second small box has some drawings and is marked 'Tamsø, 30.vii.1897']; **TRH B27-2799.**

[Anon.]; [Norway]; Tromsø; [no habitat data]; 23.ix.1882; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two specimens in an open box]; **TRH B27-2801.**

[Anon.]; Spitsbergen; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box annotated to indicate that this collection is from specimen 31 which Heydrich (1901a: 539) identified as *L. ungeri* f. *corymbiformis* Foslie but which Foslie (1901d: 25) re-identified as *L. ungeri* f. *typica* and speculated that the collection came from Iceland or northern Norway. Box cover also marked 'Island? [= Iceland?']']; **TRH B27-2803.**

ungeri, Lithothamnion (f. corymbiformis) [originally described as *Lithothamnion fruticosum* f. *corymbiformis* (Foslie 1895a: 46), but subsequently (Foslie 1898b: 5, 1901i: 11, 1905c: 45) transferred without change in rank into *Lithothamnion ungeri* as *L. ungeri* f. *corymbiformis*. Collection listed in Adey & Lebednik 1967: 73 under *Lithothamnion ungeri* without mention of forma. One additional collection is in Drawer B28]. **Lectotype:** TRH, B27-2804 (see below).

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 6, fig. 3, and Printz 1929, pl. 29, fig. 1; [Note: **Lectotype** of *Lithothamnion fruticosum* f. *corymbiformis* Foslie. Additional data — Woelkerling 1993: 63, who incorrectly stated that Foslie changed the infraspecific epithet to *flexuosa*. Lectotype specimen has two green tags with pfa information attached and is housed in a white envelope. Grouped with three Tromsø collections of *L. ungeri* dated 15.viii.1890 (B27-2792, B27-2793, B27-2794), a Skorpen [now Skorpa] collection of *L. ungeri* dated 8.ix.1890 (B27-2891) and the lectotype of *Lithothamnion fruticosum* f. *flexuosa* (B27-2805) under one entry in Adey & Lebednik 1967: 73]; **TRH B27-2804.**

ungeri, Lithothamnion (f. flexuosa) [originally described as *Lithothamnion fruticosum* f. *flexuosa* by Foslie (1895a: 46), then (Foslie 1898b: 6) transferred without change in rank into *Lithothamnion tophiforme* as *L. tophiforme* f. *flexuosa*, and then (Foslie 1900i: 11, 1905c: 44) transferred without change in rank into *Lithothamnion ungeri* as *L. ungeri* f. *flexuosa*. Collection B27-2805 listed in Adey & Lebednik 1967: 73 under *Lithothamnion*

ungeri without mention of forma. Additional collections are in Drawer B28]. **Lectotype:** TRH, B27-2805 (see below).

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 7, fig. 3, and Printz 1929, pl. 27, fig. 3; [Note: **Lectotype** of *Lithothamnion fruticosum* f. *flexuosa* Foslie. Additional data — Woelkerling 1993: 95. Lectotype specimen has two green tags with pfa information attached and is housed in a white envelope. Grouped with three Tromsø collections of *L. ungeri* dated 15.viii.1890 (B27-2792, B27-2793, B27-2794), a Skorpen [now Skorpa] collection of *L. ungeri* dated 8.ix.1890 (B27-2891) and the lectotype of *Lithothamnion fruticosum* f. *corymbiformis* (B27-2804) under one entry in Adey & Lebednik 1967: 73]; **TRH B27-2805.**

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; slides 165-166; [no other collection data]; pfa: Foslie 1895a, pl. 8, fig. 2; [Note: collection originally placed in the same box as a collection of *Lithothamnion soriferum* (C13-3197), but separated here into a new open box. Collection consists of two specimens marked with green tags. Green tag on one specimen marked '8', possibly referring to Foslie 1895a, pl. 8. Green tag on other specimen marked 'Præp. [= slides] 165-66' on one of the side of the tag and 'Norv. Lith. pl. 8, f. 2 [= Foslie 1895a, pl. 8 fig. 2]' on the other side. Both slides marked '*L. ungeri* f. *flexuosa*' and 'Tromsø, 15.viii.1890' and 'Lith. pl. 8, f. 2'. Annotation slip for slide 165 also marked 'Ingen konc. [= without conceptacles]'. Fragments found in C13-3197 at the time of separation are retained in a small box marked 'fragments' that is placed in C13-3197 but possibly are a mixture of that collection and this collection (B27-3830). Collection not included in Adey & Lebednik 1967]; **TRH B27-3830.**

Case B, Drawer 28

During the present study, Foslie's label for Drawer B28 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion ungeri*. The label is marked '*Lithothamnion, Eulithothamnion ungeri*' and 'B28'. It now has been placed in an envelope marked 'Label for the original wooden Drawer B28 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'. Adey & Lebednik 1967: 73 grouped all collections in this Drawer under one entry. Drawer B28 contains 12 collections representing three taxa.

***fruticosum, Lithothamnion* (f. *corymbiformis*).** See listing below and in Drawer B27 for *ungeri, Lithothamnion* (f. *corymbiformis*)

***fruticosum, Lithothamnion* (f. *flexuosa*).** See listing below and in Drawer B27 for *ungeri, Lithothamnion* (f. *flexuosa*)

***tophiforme, Lithothamnion* (f. *flexuosa*).** See listing below and in Drawer B27 for *ungeri, Lithothamnion* (f. *flexuosa*)

ungeri, Lithothamnion [originally described as *Lithothamnion ungeri* (Kjellman 1883: 120), where Foslie retained it in publication. Additional collections are in Drawer B 27]. **Type:** apparently not designated (see Note at start of entries in Drawer B27).

[Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; slides 162-163; [no other collection data]; pfa: Foslie 1895a, pl. 6, fig. 1; [Note: collection consists of one specimen and two slides housed in a white envelope. Green tag attached to specimen has pfa information. Locality and date information on slides. Grouped with all other collections in Drawer B28

- under one entry in Adey & Lebednik 1967: 73. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2806.**
 [Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 3, fig. 5; [Note: collection consists of one specimen now housed in a white envelope but originally found with B28-2811. Green tag attached to specimen has pfa information. Locality and date data taken from annotation slip now housed with B28-2811. Taxon name is given in the figure caption as *Lithothamnion fruticosum* f. *typica* but plate is cited subsequently (Foslie 1905c: 44) under *Lithothamnion ungeri* f. *typica*. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2807.**
 Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; two slides numbered 18 and one slide marked d; [no other collection data]; pfa: Foslie 1895a, pl. 3, fig. 6; [Note: collection consists of one specimen and three slides housed in a white envelope. Green tag attached to specimen has pfa information and also is marked 'Præp. [= slide] 18 + Præp. [= slide] d'. Both slides numbered 18 have collection data and also are marked '*L. fruticosum ungeri* f. *typica*'. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2808.**
 [Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 4, fig. 2; [Note: collection consists of one specimen now housed in a white envelope but originally found with B28-2811. Envelope also includes photocopy of annotation slip from B28-2811. Green tag attached to specimen has pfa information. Locality and date data taken from annotation slip now housed with B28-2811. Taxon name is given in the figure caption as *Lithothamnion fruticosum* f. *typica* but is cited subsequently (Foslie 1905c: 44) under *Lithothamnion ungeri* f. *typica*. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2809.**
 [Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: taxon name and collection date are given on small box included with the 17 specimens/fragments in a large green box. Small box also marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2810.**
 Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; slide a; [no other collection data]; [no pfa]; [Note: collection consists of 17 individuals in an open carton, one of which has a tag referring to slide 'a'. One accompanying annotation slip marked '*Lithothamnion ungeri* Kjellm. f. *typica* + f. *flexuosa*' and 'alt i denne skuffe [= all in this drawer]'. Second slip marked '*Lithothamnion, Eulithothamnion, ungeri*' and 'B28'. Slide 'a' marked '*L. interm. ungeri* mellemf. [= intermediate form] *flexuosa typica*'. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2811.**
 [Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two fragments in a small box marked 'Sp. konc. [= sporangial conceptacles] 300-400µ'. Fragments almost certainly removed from B28-2806, or B28-2807, or B28-2808, or B28-2809, or B28-2810, or B28-2811, but treated here as a separate collection because the parent plant(s) cannot be determined. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH B28-2812.**

ungeri, *Lithothamnion* (f. *corymbiformis*) [originally described as *Lithothamnion fruticosum* f. *corymbiformis* (Foslie 1895a: 46), but subsequently (Foslie 1898b: 5, 1901i: 11,

1905c: 45) transferred without change in rank into *Lithothamnion ungeri* as *L. ungeri* f. *corymbiformis*. Collection listed in Adey & Lebednik 1967: 73 under *Lithothamnion ungeri* without mention of forma]. **Lectotype:** TRH, B27-2804 (in Drawer B27).

[Foslie]; [Norway]; Tromsø; [no habitat data]; [probably 15.viii.1890]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 6, fig. 2; [Note: collection consists of one specimen housed in a white envelope. Green tag attached to specimen has pfa information. Taxon name is given in the figure caption as *Lithothamnion fruticosum* f. *corymbiformis*. Locality data taken from Foslie 1895a: 59. Collection date probably the same as the lectotype (B27-2804). Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73]; **TRH B28-2813.**

ungeri, *Lithothamnion* (f. *flexuosa*) [originally described as *Lithothamnion fruticosum* f. *flexuosa* by Foslie (1895a: 46), then transferred without change in rank into *Lithothamnion tophiforme* as *L. tophiforme* f. *flexuosa*, and then (Foslie 1900i: 11, 1905c: 44) transferred without change in rank into *Lithothamnion ungeri* as *L. ungeri* f. *flexuosa*. Collection listed in Adey & Lebednik 1967: 73 under *Lithothamnion ungeri* without mention of forma]. **Lectotype:** TRH, B27-2805 (in Drawer B27).

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; two slides numbered 17 and slide c; [no other collection data]; pfa: Foslie 1895a: pl. 7, fig. 2; [Note: collection consists of one specimen and three slides housed in a white envelope. Green tag attached to specimen has pfa information. Locality and date data marked on slides. Slides 17 also marked '*L. ungeri typica - flexuosa*'. Slide 'c' also marked '*L. ungeri* Kjellm. *flex.*'. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73]; **TRH B28-2815.**

[Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; slide 164; [no other collection data]; pfa: Foslie 1895a, pl. 8, fig. 1; [Note: collection consists of one specimen, a small blue quadratic box with an enclosed small round box, a separate small round box, and slide 164, all housed in a white envelope. Green tag attached to specimen has pfa information. Slide 164 has locality and date data. Blue quadratic box contains fragments and is faintly marked '*L. frut. flex.*' and 'pl. 8, f. 1'. Blue box also marked with crossed out words '~~Tromsø, 15.viii.1890~~' and '~~Præp. [= slide] Anders. 1645~~' [slide 1645 belongs to a collection of *Lithothamnion granii* (C10-3117)]. Small box inside quadratic box contains one fragment and is marked '894' on the outside and '894' [not crossed out] on the inside. The number 894 cannot be matched to any slide in the Foslie herbarium. Separate small round box has two fragments and is marked 'Tromsø, 15.viii.1890' and '*L. ungeri*' and 'blå æske i f. *flexuosa* [= blue box in f. *flexuosa*]' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73]; **TRH B28-2816.**

[Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 28, figs 1-3, 5; [Note: collection consists of four specimens and an annotation slip with collection data housed in a large green box. Green tags attached to specimens have numbers corresponding to pfa information. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73]; **TRH B28-2817.**

[Foslie]; [Norway]; [no locality data, but see Note]; [no habitat data]; [no date, but see Note]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 7, fig. 1; [Note: collection consists of one specimen housed in a white envelope. Green tag attached to specimen has pfa information. Collection locality and date lacking but probably the same as B28-2815, B28-2816 and B28-2817. Taxon name is given in the figure caption as *Lithothamnion fruticosum* f. *flexuosa*. Grouped with all other collections in Drawer B28 under one entry in Adey & Lebednik 1967: 73]; **TRH B28-2814.**

Case C, Drawer 1

During the present study, two notes with descriptions about various slides were found in Drawer C1. The notes have been placed in an envelope marked 'Loose notes found in Drawer C1'.

calcareum, Lithothamnion [originally described as *Millepora calcarea* (Pallas 1766: 265). Subsequently (Lamarck 1801: 574) transferred without change in rank into *Nullipora*, then (Kützing 1849: 699) into *Spongites*, then (Harvey 1849a: 110) into *Melobesia*, then (Areschoug 1852: 523) into *Lithothamnion*, and then (Foslie 1898b: 9) into *Lithophyllum*. Then (Foslie 1900i: 13) transferred at species rank back into *Lithothamnion* and thereafter retained under that name by Foslie in publication]. **Lectotype: BM**, algal box collection 1626 (Woelkerling & Irvine 1986a: 57-59). Woelkerling & Irvine (1986a: 76) also provided a list of superfluous substitute names.

Note: Specimens identified as transitional between two formae have been listed under the name of the first forma mentioned (e.g. f. *compressa* – *palmatifida* is listed under f. *compressa*).

Bornet; [France]; St. Malo, Grand Bay; [no habitat data]; vi.-vii.1872; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. calc.?*'. Grouped with C1-2819, C1-2820 and C1-2821 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2818.**

Bornet; [France]; St. Malo, Grand Bay; [no habitat data]; vi.-vii.1872; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. calc.?*'. Grouped with C1-2818, C1-2820 and C1-2821 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2819.**

Bornet; [France]; St. Malo, Grand Bay; [no habitat data]; vii.1872; slide 15; [ex] herb. Thuret (Bornet) **[PC]**; [no pfa]; [Note: grouped with C1-2818, C1-2819 and C1-2821 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2820.**

Bornet; [France]; St. Malo, Ille-et-Vilaine; [no habitat data]; vi.-vii.1872; two slides numbered 1; [ex] herb. Thuret (Bornet) **[PC]**; [no pfa]; [Note: box marked '*L. calcareum* f.? & *L. corall. flab.?*'. One annotation slip in box marked '*Lithothamnion coralloides*'. Another slip marked '*L. calcareum* f. *compr. delvis?* ell. [= in part? or] *L. corall. f. flabell.?*'. Grouped with C1-2818, C1-2819 and C1-2820 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2821.**

Chalon; [France]; Finistère, Roscoff; [no habitat data]; vii.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, figs 25-26, 28; [Note: box marked '*L. coralloides* Crn. = *L. calcareum* flere [= several] ff.'. Box also faintly marked 'Udpl. af en mgd. døde ekspl. & fragm. [= taken out from several dead specimens & fragments]'. Grouped with C1-2823 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2822.**

Chalon; [France]; Finistère, Roscoff; [no habitat data]; viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. coralloides* Crn = *L. calcareum* f.' and 'konc. [= conceptacles]'. Grouped with C1-2822 under one entry in Adey & Lebednik 1967: 74 and using only the collection date vii.1903]; **TRH C1-2823.**

Cotton [but see Note]; [United Kingdom] [but see Note]; [England] [but see Note], Cornwall, Fowey [but see Note]; [no habitat data]; xii.1905 [but see Note]; [no slides]; ex herb. Kew Gardens **[K]**; [no pfa]; [Note: Foslie marked the box 'Koncept. [= conceptacles]' and 'ex herb. Kew Gardens A.D. Cotton 12.1905 Fowey Cornwall'. A letter from Cotton to Foslie dated 1.xii.1905, however, indicates that the specimen being sent on 1.xii.1905 has no locality information, and no collector or collection date is specified. Adey & Lebednik 1967: 74 list Cotton as the collector, xii.1905 as the collection date and 'Fowey, Cornwall' as the collection locality. Algal collections originally at **K** are now housed at **BM**]; **TRH C1-2824.**

- Debray; [France]; Finistère, Concarneau; [no habitat data]; [no date]; [no slides]; ex herb. Hauck [now at L]; pfa: Printz 1929, pl. 16, fig. 6; [Note: Adey & Lebednik 1967: 74 mistakenly associate the Printz figure with Debray collection number 12 (C1-2861) (lectotype of *L. calcareum* f. *attenuata*)]; **TRH C1-2831**.
- Gomont; [France]; St. Vaast-la-Houge; [no habitat data]; [no date]; [no slides]; ex herb. Bournet **[PC]**; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Annotation slip in box marked 'Tømte konc. [= empty conceptacles]']; **TRH C1-2833**.
- Gran; [Norway]; Espevær; [no habitat data]; 1891; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 16, fig. 21; [Note: box marked '*L. eoralloides calcareum*']; **TRH C1-2834**.
- Hanna; Irland [= Republic of Ireland]; off the Island of Davillaun, north east of Inishbofin; collection depth: 10-13 fathoms; viii.1899; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, fig. 15; [Note: box marked '*L. calcareum* delvis [= in part] f. *palmatifida*' and '*compr.*']; **TRH C1-2835**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], zwischen [= between] Klein Asino u. [= and] St. Andrea; collection depth: 23-30 metres; 4.xi.1899; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 2, fig. 2; [Note: grouped with a collection of *L. calcareum* f. *squarrulosa* (C1-2904) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2839**.
- [Kuckuck]; Marokko [= Morocco]; Tangier; collection depths: '1) 17-33 metres ell. [= or] 3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 2, fig. 25; [Note: box marked 'a. *L. calcareum*' and 'b. *L. fruticosum*' and '(+ andet ekspl. [= another specimen])'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with two other collections of *L. calcareum* (f. *calcareum*) (C1-2837, C1-2838), two collections of *L. calcareum* f. *compressa* (C1-2866, C1-2867) and two collections of *L. calcareum* f. *squarrulosa* (C1-2905, C1-2906) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2836**.
- Kuckuck; Marokko [= Morocco]; Tangier [see Note for further data]; collection depths: '1) 17-33 metres ell. [= or] 3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 3, figs 1-2, 4; [Note: box marked '*L. calcareum* mønstrøs [= monstrous] form'. Box also marked 'nördl. d. Stadt [= northern part of the city]' before '17-33 metres' and 'nördl. [= northern] Monte de Direction' before '15-20 metres'. Grouped with two other collections of *L. calcareum* (f. *calcareum*) (C1-2836, C1-2838), two collections of *L. calcareum* f. *compressa* (C1-2866, C1-2867) and two collections of *L. calcareum* f. *squarrulosa* (C1-2905, C1-2906) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2837**.
- Kuckuck; Marokko [= Morocco]; Tangier; collection depths: '1) 17-33 metres ell. [= or] 3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. calcareum* mønstrøs [= monstrous] form ell. delvis [= or in part] *L. frutic.*?' and 'Tømte konc. [= empty conceptacles]'. Grouped with two other collections of *L. calcareum* (f. *calcareum*) (C1-2836, C1-2837), two collections of *L. calcareum* f. *compressa* (C1-2866, C1-2867) and two collections of *L. calcareum* f. *squarrulosa* (C1-2905, C1-2906) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2838**.
- Painter; [Republic of Ireland]; Roundstone Bay; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box lid and annotation slip in box marked '*Lithothamnion calcareum*' with '*Melobesia calcarea*' underneath. Collection not included in Adey & Lebednik 1967]; **TRH C1-2840**.
- Rosenvinge; [Denmark]; østl. [= Eastern] Kattgat, Fladen; collection depth: 13 fathoms; 12.v.1893; slide 123; Rosenvinge collection number 3387b, [ex] Bot Mus Kbhavn **[C]**; [no pfa]; [Note: box marked '*L. calcareum* (f. *valida*)' and '(døde ekspl. [= dead specimens])' and 'Præp. 123 (ekspl. i papir) [= slide 123 (specimen in paper)]'. One specimen in original box is wrapped in paper. Grouped under one entry in Adey & Lebednik (1967: 75) with Rosenvinge collections 3381a (f. *compressa*) (C1-2870), 3387a (lectotype of *Lithothamnion squarrulosum* f. *palmatifida*) (C1-2892) and 7478 (f. *palmatifida*) (C1-2893)]; **TRH C1-2841**.

- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles]'. Packet in box contains one specimen and is marked 'Tetrasp. 4 delte obs. tilf. snit gj. sp. konc. grentop afbildes [= tetrasporangia 4-parted observed random cut through sporangial conceptacles branch top photographed]'. Grouped with one other collection of *L. calcareum* (f. *calcareum*) (C1-2843) and five collections of *L. calcareum* f. *compressa* (C1-2871, C1-2872, C1-2873, C1-2874, C1-2875) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2842.**
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, fig. 7; [Note: box faintly marked '*L. calcareum* f.'. Grouped with one other collection of *L. calcareum* (f. *calcareum*) (C1-2842) and five collections of *L. calcareum* f. *compressa* (C1-2871, C1-2872, C1-2873, C1-2874, C1-2875) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2843.**
- Vickers; [Italy]; Neapel [= Naples]; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. calcareum*?' and 'sands. calc. [= probably *calcareum*]' and 'steril [= sterile]']; **TRH C1-2844.**
- Weiss; Republic of Ireland; Valencia Island, Port Magee Channel between Valencia [Island] and the mainland; collection depth: ca 5 fathoms, with considerable tidal current; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'C.' and 'steril [= sterile]'. Collection not included in Adey & Lebednik 1967]; **TRH C1-2845.**
- Wille; [Norway]; Mandal; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. calcareum* (?)']; **TRH C1-2846.**
- [Anon.]; [Algeria]; Algier; [no habitat data]; [no date]; [no slides]; ex herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 9b; [no pfa]; [Note: box marked '*L. calcareum* (delvis [= in part])' and 'Debray 1-19'. Adey & Lebednik 1967: 74 mistakenly indicate that the collection was ex. herb. Bornet]; **TRH C1-2847.**
- [Anon.]; [France]; Finistère, Iles Glénans; [no habitat data]; [no date]; [no slides]; [ex herb.] Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 13a (1-19); [no pfa]; [Note: annotation slip in box marked '*Lithothamnion coralloides* = *calcareum*'. Debray collection 13b is filed under *Lithothamnion fruticulosum* in Drawer B6 (B6-2045). Grouped with C1-2848, C1-2849 and C1-2850 under one entry in Adey & Lebednik 1967: 74, who list Debray as the collector]; **TRH C1-2830.**
- [Anon.]; [France]; Finistère, [Iles] Glénans; [no habitat data]; [no date]; [no slides]; ex herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 96 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. calc.*?' and '*L. corall.* blandt [= among]' *calc.*'. Grouped with C1-2830, C1-2849 and C1-2850 under one entry in Adey & Lebednik 1967: 74, who list Debray as the collector]; **TRH C1-2848.**
- [Anon.]; [France]; Finistère, [Iles] Glénans; [no habitat data]; [no date]; [no slides]; ex herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 96 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. calcareum* (ialf. delvis [= at least partly])'. Grouped with C1-2830, C1-2848 and C1-2850 under one entry in Adey & Lebednik 1967: 74, who list Debray as the collector]; **TRH C1-2849.**
- [Anon.]; [France]; Finistère, [Iles] Glénans; [no habitat data]; [no date]; slides 284-285; ex herb. Debray [**AL**, according to Stafleu & Mennega 1998: 130], number 96 'delvis [= in part]'; [no pfa]; [Note: collection consists of one larger round original box (with one smaller round original box inside) housed in a newer brown box. Larger round box marked 'og [= and] *Dermatolithon*' and 'Ingen sporer [= without spores]' and 'koncept. [= conceptacles]'. Smaller round box (with one small specimen) marked 'Præp. [= slides] 284-285'. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'. Grouped with C1-2830, C1-2848 and C1-2849 under one entry in Adey & Lebednik 1967: 74, who list Debray as the collector]; **TRH C1-2850.**

- [Anon.]; France; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 2, figs 21-23; [Note: box marked '*L. calcareum* f. *compressa* (& f. *palmatifida*)']; **TRH C1-2851.**
- [Anon.]; [France]; Pas de Calais Les Plathero (au large?) de Boulogne; collection depth: 40-50 metres; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Debray nr. 97'. Annotation slip in box marked with locality and habitat data and also marked '*L. calcareum*? scr. Debr.'. Adey & Lebednik 1967: 74 list 'Debray' as the collector]; **TRH C1-2854.**
- [Anon.]; [Italy]; Golfo di Napoli [= Gulf of Naples]; collection depth: 30-80 metres; [no date]; [no slides]; [ex] Zool. St. Neapel; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with a collection of *L. calcareum* f. *squarrulosa* (C1-2908) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2856.**
- [Anon.]; Portugal; coast of Portugal, [no other locality data]; [no habitat data]; [no date]; [no slides]; ex herb. British Mus. [BM], 1899, number 7; [no pfa]; [Note: Adey & Lebednik 1967: 74 mistakenly give 1899 as the collection date]; **TRH C1-2857.**
- [Anon.]; [Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number 54; [no pfa]; [Note: box marked '*L. uncinatum calcareum* f. *squarrulosa*' and 'Ar. efter koncept. [= scar after conceptacles]'. Grouped with one other collection of *L. calcareum* (f. *calcareum*) (C1-2859), three collections of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882), four collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2910, C1-2911, C1-2912) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74. The specific epithet *calcareum* does not appear on the box, but Foslie equated *uncinatum* with *calcareum* (see C1-2859)]; **TRH C1-2858.**
- [Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; two slides numbered 40; [ex] Science & Art Mus. Dublin [DBN], number 34 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. uncin.*' = *L. calcareum* f. *squarr.*' and 'mindste sp. konc. [= smallest sporangial conceptacles]'. Grouped with one other collection of *L. calcareum* (f. *calcareum*) (C1-2858), three collections of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882), four collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2910, C1-2911, C1-2912) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2859.**
- [Anon.]; [United Kingdom]; England, Cornwall, Fowey; collection depth: ca 10 fathoms; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 5, ex herb. Kew Gardens [K]; [no pfa]; [Note: box marked '*L. fruticulosum calcareum*?'. Annotation slip in box marked 'Koncept. utydelige baade dette og et returneret ekspl s. med. *L. calc.* [= conceptacles indistinct both this and one returned specimen mixed with *L. calc.*']. Grouped with four other collections of *L. calcareum* (C1-2825, C1-2826, C1-2827, C1-2828) and one of *L. calcareum* f. *corallioides* (C1-2883) under one entry by Adey & Lebednik 1967: 74, who list 'Cotton' as the collector and 'xi.1905' as the collection date. A letter from Cotton to Foslie dated '7.xi.1905', however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. The collection locality is specified in a letter from Cotton to Foslie dated 1.xii.1905. Algal collections originally at K are now housed at BM]; **TRH C1-2829.**
- [Anon.]; [United Kingdom]; England, south coast; collection depth: ca 10 fathoms, epiphyte on *L. corallioides*; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 4, ex herb. Kew Gardens [K]; [no pfa]; [Note: box marked '*L. calcareum* med nyt tilv. lag. ell. maaske [= with new increment layer or perhaps] *Phym. polym.*'. One annotation slip in box marked 'sterile' and 'berrycom... [or terrycomm...]' [meaning uncertain]. Second annotation slip marked with some habitat data. Grouped with four other collections of *L. calcareum* (C1-2826, C1-2827, C1-2828, C1-2829) and one of *L. calcareum* f. *corallioides* (C1-2883) under one entry by Adey & Lebednik 1967: 74, who list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, how-

- ever, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH C1-2825**. [Anon.]; [United Kingdom]; England, south coast; collection depth: ca 10 fathoms; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 3, ex herb. Kew Gardens [**K**]; [no pfa]; [Note: box marked '*L. calcareum*, *L. sonderi*' and 'Enp. konc. [= uniporate (enporede) conceptacles] c. 300µ'. Grouped with four other collections of *L. calcareum* (C1-2825, C1-2827, C1-2828, C1-2829) and one of *L. calcareum* f. *corallioides* (C1-2883) under one entry by Adey & Lebednik 1967: 74, who list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH C1-2826**.
- [Anon.]; [United Kingdom]; England, south coast; collection depth: ca 10 fathoms, epiphyte on *L. corallioides*; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 1, ex herb. Kew Gardens [**K**]; [no pfa]; [Note: box marked '*L. calcareum*, *L. sonderi*, *Phym. polym.*'. One annotation slip in box marked '1.' and '*Lith. calc.* (Pall.) Aresch. – Dead specimen with stunted crusts partly of *Lith. sonderi* partly perhaps of *Phym. polym.*'. Another slip marked 'Epiphyte? on *L. corallioides* Crn' and 'no. 1.'. Grouped with four other collections of *L. calcareum* (C1-2825, C1-2826, C1-2828, C1-2829) and one of *L. calcareum* f. *corallioides* (C1-2883) under one entry by Adey & Lebednik 1967: 74, who list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH C1-2827**.
- [Anon.]; [United Kingdom]; England, south coast; collection depth: ca 10 fathoms; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 2, ex herb. Kew Gardens [**K**]; [no pfa]; [Note: box marked '*L. calcareum*, *L. sonderi*'. Annotation slip in box marked 'Dead *L. calcareum* with crust of *L. sonderi*'. Grouped with four other collections of *L. calcareum* (C1-2825, C1-2826, C1-2827, C1-2829) and one of *L. calcareum* f. *corallioides* (C1-2883) under one entry by Adey & Lebednik 1967: 74, who list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH C1-2828**.
- [Anon.]; Isle of Man; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Mrs. Hannah Robertson, Millport (1903); [no pfa]; [Note: box marked. 'mønstrøs [= monstrous] *L. calcareum*?'] and also faintly marked 'Obs. konc. fuldst. = Marokko i ekspl. [= observed conceptacles completely = Morocco in specimen]' [some writing unclear]. Annotation slip in box marked 'Dead specimens much attacked by worms, bryozoa, etc., which time after time new crusts are developed? (cfr. [= cf.] Foslie, Die Lithoth. Adr. Meer. + Marokko [= Foslie 1904d])'. Grouped with a collection of f. *palmatifida* (C1-2894) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik mistakenly list 'Robertson' as the collector]; **TRH C1-2855**.
- [Anon.]; [United Kingdom]; Scotland, Port Bannatyne, Bute; [no habitat data]; x.1895; slide 13; comm. Batters; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Slide 13 marked '*L. glaciale* Kjellm. *collicul.*'. Annotation slip in box marked 'Konc. flade skiveformige 140-200, fordybning i midten [= conceptacles flatten disk-shaped 140-200, depression in the middle]'. Adey & Lebednik 1967: 74 mistakenly list 'Batters' as the collector]; **TRH C1-2860**.

calcareum, Lithothamnion (f. attenuata) [originally described as *Lithothamnion calcareum* f. *attenuata* (Foslie 1897b: 9) but then (Foslie 1900i: 13) needlessly changed to *Lithothamnion calcareum* f. *valida* and later (Foslie 1905c: 69) treated (incorrectly) as a heterotypic synonym of *Lithothamnion calcareum* f. *squarrulosa* (Foslie) Foslie (1900i: 13). When treated as a forma of *Lithothamnion calcareum*, the oldest available epithet for this taxon is *attenuata* (Foslie 1897b: 9) and the later epithet *valida* (Foslie 1900i: 13) is

superfluous. When *L. calcareum* f. *attenuata* and *L. calcareum* f. *squarrulosa* are treated as the same taxon in the rank of form, the epithet *attenuata* (Foslie 1897b: 9) also has priority over the epithet *squarrulosa* (Foslie 1900i: 13). Collection listed in Adey & Lebednik 1967: 74 under species without mention of forma]. **Lectotype:** TRH, C1-2861 (see below).

[Anon.]; [France]; Finistère, Concarneau; [no habitat data]; [no date]; [no slides]; [ex] Herb. Debray [AL, according to Stafleu & Mennega 1998: 130], number 12; [no pfa]; [Note: **Lectotype** of *Lithothamnion calcareum* f. *attenuata* Foslie. Additional data — Woelkerling 1993: 32. Box marked '*L. coralloides* = *L. calcareum*?' but one annotation slip in box bears the name '*L. calcareum* f. *attenuata*' and also is marked 'et concept. flade ekspl. nedtr. midten som foec. [= one conceptacle on flattened specimen depressed in the middle as foec.]. Another slip is marked '*Lithothamnion coralloides*' and 'Finistère, Concarneau'. Adey & Lebednik (1967: 74 mistakenly associate Printz 1929, pl. 16, fig. 6 with this collection but it really pertains to Debray collection of *L. calcareum* (C1-2831)]; **TRH C1-2861.**

calcareum, *Lithothamnion* (f. *australis*) [originally described as *Lithothamnion coralloides* f. *australis* (Foslie 1895a: 90, specific epithet spelled *coralloides*), but subsequently (Foslie 1899c: 6) raised to species rank and re-described as *Lithothamnion squarrulosum* with a nomenclaturally allowable change in epithet from *australis* (used by Foslie in the rank of forma) to *squarrulosum* (used by Foslie in the rank of species). Foslie (1900i: 13) later reduced *Lithothamnion squarrulosum* to the rank of form within *Lithothamnion calcareum* (as *L. calcareum* f. *squarrulosa*), but incorrectly retained the epithet *squarrulosum* in the rank of form rather than adopting the older available name f. *australis*. The correct name *Lithothamnion calcareum* f. *australis* is adopted in this catalogue even though it never appeared in Foslie's publications. References to the incorrect name *Lithothamnion calcareum* f. *squarrulosum* in Foslie's publications (as f. *squarrulosa*) are provided by Woelkerling (1984: 99). Woelkerling (1993: 35-36, 207) provided further information on the names *Lithothamnion coralloides* f. *australis* and *Lithothamnion squarrulosum*. Collections listed in Adey & Lebednik 1967: 74 under *Lithothamnion calcareum* without mention of forma]. **Lectotype:** TRH, C1-2918 (see below).

Batters; [United Kingdom]; [Scotland], Cumbrae; [no habitat data]; viii.1891; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 27-30; [Note: **Lectotype** of *Lithothamnion coralloides* f. *australis* Foslie and of *Lithothamnion squarrulosum* Foslie. Additional data: Woelkerling 1993: 35. Original box lid marked '*L. coralloides* f. *australis*' and '= *L. calc.* f. *squarr.* – *subsimplex*' and 'Norw. Lith. pl. 16, f. 27-30 [= Foslie 1895a, pl. 16, figs 27-30]'. Box bottom marked '*L. coralloides* f. *australis*' and '= *L. calc.* f. *squarr.*' and 'Norw. Lith. pl. 16, f. 22-30 [= Foslie 1895a, pl. 16, figs 22-30]'. Only figs 27-30 pertain to this collection. Specimens cited in figs 22-23 are in C9-3088 (listed under *Lithothamnion tusterense*). Specimens in figs 24-25 are in C1-2888 (listed here under *Lithothamnion calcareum* f. *australis*). The specimen depicted in fig. 26 has not been located. This collection (C1-2918) grouped with an isolectotype of *Lithothamnion coralloides* f. *subsimplex* (C1-2913) under one entry in Adey & Lebednik 1967: 74, who omit mention of published illustrations listed on the box]; **TRH C1-2918.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; slides 228-229; stat. 2 & 3 (see Foslie 1899a); [no pfa]; [Note: collection consists of one larger and two smaller original round boxes housed in a newer brown box. Larger round box marked with collection data and with '*L. calcareum* f. *squarrulosa*.' and 'Koncept. i lille æske [= conceptacles in small box]'. One smaller box (with one fragment) marked '= Præp. [= slide] 228, 229' and '*L. calcareum*' and 'Irland, 15.iv.1899' and '1 sp. konc. [= one sporangial conceptacle]'. Second smaller box (empty) marked 'Sp. konc. [= sporangial conceptacles]'. Slide 229 marked '*L. calcareum*' without form name. Further information from

Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'. Grouped with two other collections of *L. calcareum* f. *squarrulosa* (C1-2900, C1-2901), one collection of *L. calcareum* f. *compressa* (C1-2864) and one collection of *L. calcareum* f. *corallioides* (C1-2884) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik record 6 boxes, but only 5 were found. Material of *L. calcareum* f. *squarrulosa* with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH C1-2899.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; 'lok. 2 & 3 [= locality 2 & 3]' (see Foslie 1899a); pfa: Printz 1929, pl. 16, figs 1-4; [Note: box marked 'Doublet i gangsk. [= duplicates in corridor cabinet]' and 'Analyse nr. 12'. Grouped with two other collections of *L. calcareum* f. *squarrulosa* (C1-2899, C1-2901), one collection of *L. calcareum* f. *compressa* (C1-2864) and one collection of *L. calcareum* f. *corallioides* (C1-2884) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik record 6 boxes, but only 5 were found. Material of *L. calcareum* f. *squarrulosa* with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH C1-2900.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; stat. 4 (see Foslie 1899a); [no pfa]; [Note: grouped with two other collections of *L. calcareum* f. *squarrulosa* (C1-2899, C1-2900), one collection of *L. calcareum* f. *compressa* (C1-2864) and one collection of *L. calcareum* f. *corallioides* (C1-2884) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik record 6 boxes, but only 5 were found. Material of *L. calcareum* f. *squarrulosa* with same collecting information represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH C1-2901.**

Foslie; Irland [= Republic of Ireland]; Roundstone, Bertraghboy Bay; [no habitat data]; 17.iv.1899; [no slides]; station 8 (see Foslie 1899a); [no pfa]; [Note: box marked '*L. calcareum?* f. *squarrulosa*' and 's. m. [= mixed with] *Corallina – Dermatol.*' and 'Steril [= sterile]'. Grouped with C1-2903 and a collection of f. *subsimplex* (C1-2914) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2902.**

Foslie; Irland [= Republic of Ireland]; Roundstone, Cloonile Bay, Blackhaven; [no habitat data]; 17.iv.1899; slide 239; station 7 (see Foslie 1899a); [no pfa]; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box lid marked with collection data. Smaller round box (with two fragments) housed inside larger round box and marked 'Præp. [= slide] Anders. 239'. 'Anders.' denotes R.A. Anderson, the name of a slide making company used by Foslie. Grouped with C1-2902 and a collection of f. *subsimplex* (C1-2914) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2903.**

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands] bei [= near] Pola, östl. von [= east of] St. Andrea; collection depth: 33 metres; 10.i.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. calcareum* f. *squarrulosa* (?)' and 'Ingen konc. [= without conceptacles]'. Grouped with a collection of *L. calcareum* (C1-2839) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2904.**

Kuckuck; Marokko [= Morocco]; Tangier [see Note for further data]; collection depths: '1) 17-33 metres ell. [= or] 3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 2, fig. 7; [Note: box marked 'nördl. d. Stadt [= northern part of the city]' before '17-33 metres' and 'nördl. [= northern] Monte de Direction' before '15-20 metres'. Grouped with one other collection of *L. calcareum* f. *squarrulosa* (C1-2906), three collections of *L. calcareum* (f. *calcareum*) (C1-2836, C1-2837, C1-2838) and two collections of *L. calcareum* f. *compressa* (C1-2866, C1-2867) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2905.**

Kuckuck; Marokko [= Morocco]; Tangier; collection depths: '1) 17-33 metres ell. [= or] 3a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, figs 9-10; [Note: box marked '*L. calcareum* f. *squarrulosa* (væsentlig [= mainly])' and 'og [= and] *fruticul.* (?)'. Grouped with one other collection of *L. calcareum* f. *squarrulosa* (C1-

- 2905), three collections of *L. calcareum* (f. *calcareum*) (C1-2836, C1-2837, C1-2838) and two collections of *L. calcareum* f. *compressa* (C1-2866, C1-2867) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2906.**
- Weiss; Republic of Ireland; Valencia [Island]; collection depth: ca 10 fathoms; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'A.' and '1 sp. konc. [= one sporangial conceptacle] 360µ'. Collection not included in Adey & Lebednik 1967]; **TRH C1-2907.**
- Wittrock; [Norway]; Haugesund; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 24-25; [Note: name on box is given as *Lithothamnion norvegicum* f. *australis*, but no such taxon has been formally described. Specimens listed in the pfa above were depicted in the protologue of *Lithothamnion corallioides* f. *australis* (Foslie 1895a 90). Additional data on this collection given by Woelkerling 1993: 35-36 under entry for *Lithothamnion corallioides* f. *australis*. Adey & Lebednik 1967: 75 mistakenly list the collector as 'Wilbrock']; **TRH C1-2888.**
- [Anon.]; France; Finistère, Morlaix; 'drague a l'surbouchure de la riviere [= dredged at the mouth of the river]'; 1877; one slide marked 'Bornet nr. 4'; ex herb. Thuret (Bornet) [**PC**], number 4, 'Donne par M. M. ed. Bornet [= donated by Mr Ed. Bornet]'; [no pfa]; [Note: box marked '“*L. fascic. β frutic.* Hauck” = *L. calcareum* f. *squarr.* – *subsimpl.*'. Annotation slip in box includes habitat and donation data]; **TRH C1-2853.**
- [Anon.]; [France]; Morlaix; [no habitat data]; [no date]; [no slides]; ex herb. Bornet [**PC**], number 4; pfa: Foslie 1895a, pl. 16, fig. 31; [Note: box marked '*L. corall.* f. *australis* = *L. calcareum* f.'. The specimen listed in the pfa above was depicted in the protologue of *Lithothamnion corallioides* f. *australis* (Foslie 1895a 90). Additional data on this collection given by Woelkerling 1993: 35-36 under entry for *Lithothamnion corallioides* f. *australis*]; **TRH C1-2852.**
- [Anon.]; [Italy]; Golfo di Napoli [= Gulf of Naples], Sorrento; collection depth: 60 metres; [no date]; slides 84-85; [ex] Zool. St. Neapel [= Naples]; pfa: Printz 1929, pl. 16, fig. 11; [Note: collection consists of a large original round box and a small original round box housed in a newer brown box. Large round box marked '*L. ramulosum* = *L. calcareum* f. *squarrulosa* & *subsimpl.*'. Small round box contains fragments and is marked 'Koncept. [= conceptacles]' and 'Sp. konc. [= sporangial conceptacles] 180 (200-240)'. Annotation slip with cell measurements for slide 84 marked '*L. calcareum* f. *squarrulosa*' but both slides marked '*L. squarrulosum* f. *australis*' (a superfluous name for *L. squarrulosum* f. *squarrulosum* – see Woelkerling 1993: 37 and information above at beginning of entries for *L. calcareum* f. *squarrulosa*). Another annotation slip marked '*Lithothamnion ramulosum*'. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'. Grouped with a collection of *L. calcareum* (C1-2856) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2908.**
- [Anon.]; Irland [= Republic of Ireland]; Galway to Sligs; [no habitat data]; iv. 1891; [no slides]; ex herb. Science & Art Mus. [Dublin] [**DBN**], number 58; [no pfa]; [Note: box marked '*L. calcareum* f. *squarrulosa* & overg. [= transition]' and 'Tild. tømte konc. [= partly empty conceptacles]'. Grouped with three other collections of *L. calcareum* (f. *squarrulosa*) (C1-2909, C1-2910, C1-2911), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), three collections of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882) and one collection of *L. calcareum* f. *subsimpl.* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2912.**
- [Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [**DBN**], number 14; [no pfa]; [Note: box marked '*squarrul.*' and 'største sp. konc. [= largest sporangial conceptacle]'. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'. Grouped with three other collections of *L. calcareum* (f. *squarrulosa*) (C1-2910, C1-2911, C1-2912), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), three collec-

tions of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2909.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; slide 121; ex Science & Art Mus. [Dublin] **[DBN]**, number 39 + 49 'delvis [= in part]' (one box with two numbers); [no pfa]; [Note: grouped with three other collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2911, C1-2912), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), three collections of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2910.**

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; slides 274-275; [ex] Science & Art Mus. [Dublin] **[DBN]**, number 52 'delvis [= in part]'; [no pfa]; [Note: grouped with three other collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2910, C1-2912), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), three collections of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2911.**

calcareum, Lithothamnion (f. compressa) [originally described as *Melobesia compressa* McCalla ex Harvey 1849b: 108 (in comments associated with *M. calcarea*). Subsequently (Foslie 1897a: 258) reduced to the rank of forma and transferred into *Lithothamnion calcareum* as *Lithothamnion calcareum* f. *compressa*, then (Foslie 1898b: 10) transferred without change in rank into *Lithophyllum* as *Lithophyllum calcareum* f. *compressa*, then (Foslie 1899c: 7, 1900i: 13) transferred back into *Lithothamnion* as *Lithothamnion calcareum* f. *compressa*, where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 74 under species without mention of forma. Taxon not mentioned in Chamberlain & Irvine 1994b]. **Type:** apparently not designated, but type material of McCalla probably in **DBN** or **TCD** (Stafleu & Cowan 1981: 212).

Foslie; Irland [= Republic of Ireland]; Dalkey Sound; [no habitat data]; 13.iv.1899; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 2, figs 18-20, and Printz 1929, pl. 16, figs 13-14; [Note: grouped with C1-2863 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2862.**

Foslie; Irland [= Republic of Ireland]; Dalkey Sound; [no habitat data]; 13.iv.1899; slides 230-231; [no other collection data]; [no pfa]; [Note: collection consists of one original large round box (containing two slides and two original small round boxes) housed in a newer brown box. One small round box (with one specimen) marked 'Præp. [= slide] 230' and '*L. calc.*' and 'Dalkey Sound, 13.iv.1899' and 'Sp. konc. [= sporangial conceptacles]'. Other small box (with four specimens/fragments) marked 'Irland, Dalkey Sound' and '= præp. [= slides] 230-231' and '*L. calcareum*' and 'Sp. konc. [= sporangial conceptacles]' and 'Ingen sporer [= without spores]'. Grouped with C1-2862 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2863.**

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; 'lok. 2 & 3 [= locality 2 & 3]' (see Foslie 1899a); [no pfa]; [Note: box marked '*L. coralloides* f. *compressa* (s. m. [= mixed with] f. *squarr.*.)'. Grouped with three collections of *L. calcareum* f. *squarrulosa* (C1-2899, C1-2900, C1-2901) and one collection of *L. calcareum* f. *coralloides* (C1-2884) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik record 6 boxes, but only 5 were found]; **TRH C1-2864.**

Johnson, T; Irland [= Republic of Ireland]; Dalkey Sound, County Dublin; collection depth: 4-5 fathoms; 2.ix.1896; slide 122; [no other collection data]; [no pfa]; [Note: box marked '*L. calcareum* f. *compressa* & overg. [= transition]']; **TRH C1-2865.**

Kuckuck; Marokko [= Morocco]; Tangier; collection depths: '1) 17-33 metres ell. [= or] 2a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, fig. 22; [Note: collection consists of two original round boxes housed in a newer brown box.

- Larger round box marked 'sp. & cyst. ? konc. [= sporangial & cystocarpic? conceptacles]'. Smaller round box contains one specimen and is marked 'Sp. konc [= sporangial conceptacles]'. Grouped with one other collection of *L. calcareum* f. *compressa* (C1-2867), three collections of *L. calcareum* (f. *calcareum*) (C1-2836, C1-2837, C1-2838) and two collections of *L. calcareum* f. *squarrulosa* (C1-2905, C1-2906) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2866**.
- Kuckuck; Marokko [= Morocco]; Tangier; collection depths: '1) 17-33 metres ell. [= or] 2a) 15-20 metres'; 14.vi.1901; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one other collection of *L. calcareum* f. *compressa* (C1-2866), three collections of *L. calcareum* (f. *calcareum*) (C1-2836, C1-2837, C1-2838) and two collections of *L. calcareum* f. *squarrulosa* (C1-2905, C1-2906) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2867**.
- Rosenvinge; [Denmark]; østl. [= Eastern] Kattegat, Lille Middelgrund; collection depth: 9-10 fathoms, 'grus [= gravel]'; 10.v.1893; slide 120; Rosenvinge collection number 3381a, [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. calcareum* f. *coralloides* (ikke typisk [= not typical]) f. *compressa*'. Slide 120 marked '3381' and not '3381a' as on box cover. Grouped under one entry in Adey & Lebednik (1967: 75) with Rosenvinge collections 3387a (lectotype of *Lithothamnion squarrulosum* f. *palmatifida*) (C1-2892), 3387b (f. *valida* = f. *calcareum*) (C1-2841) and 7478 (f. *palmatifida*) (C1-2893)]; **TRH C1-2870**.
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1900; [no slides]; comm. Sauvageau; [no pfa]; [Note: grouped with two collections of *L. calcareum* (f. *calcareum*) (C1-2842, C1-2843) and four other collections of *L. calcareum* f. *compressa* (C1-2872, C1-2873, C1-2874, C1-2875) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2871**.
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, figs 17-19; [Note: relevant figure legends are missing in Printz 1929. Grouped with two collections of *L. calcareum* (f. *calcareum*) (C1-2842, C1-2843) and four other collections of *L. calcareum* f. *compressa* (C1-2871, C1-2873, C1-2874, C1-2875) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2872**.
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. calcareum* f. *compressa* og m. fl. [= and with others]'. Grouped with two collections of *L. calcareum* (f. *calcareum*) (C1-2842, C1-2843) and four other collections of *L. calcareum* f. *compressa* (C1-2871, C1-2872, C1-2874, C1-2875) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2873**.
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: original box lid faintly marked 'væsentsligst steril [= mainly sterile]'. Grouped with two collections of *L. calcareum* (f. *calcareum*) (C1-2842, C1-2843) and four other collections of *L. calcareum* f. *compressa* (C1-2871, C1-2872, C1-2873, C1-2875) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2874**.
- Vickers; [France]; Finistère, Roscoff; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'væsentsligst steril [= mainly sterile]'. Grouped with two collections of *L. calcareum* (f. *calcareum*) (C1-2842, C1-2843) and four other collections of *L. calcareum* f. *compressa* (C1-2871, C1-2872, C1-2873, C1-2874) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2875**.
- [Anon.]; Isle of Man; [no other locality data]; [no habitat data]; [no date]; slide 269; ex herb. Univ. College Liverpool [collections now at LIV], 1899; [no pfa]; [Note: box marked 'vistnok [= most likely] *L. calcareum* f. ? monstrøs [= monstrous] f. *compressa*?'. Adey & Lebednik list 1899 as the collection date]; **TRH C1-2876**.
- [Anon.]; Isle of Man; southeast of Old Mines, Perwick Bay; collection depth: 15-18 fathoms; 15.viii.1894; slides 263-264; ex herb. Univ. College Liverpool [collections now at LIV], (1899); pfa: Printz 1929, pl. 16, fig. 29; [Note: box marked '“Nullipore gravel”' and '“*L. fascicul.* (Lam.) Aresch.” = *L. calcareum* f. ~~*palmatifida*~~ monstrøs [= monstrous] f. *compressa* (delvis [= in part])']; **TRH C1-2878**.

- [Anon.]; Isle of Man; off Port Erin and Calf Island; collection depth: ca 20 metres; x.1895; [no slides]; ex herb. Univ. Liverpool [collections now at **LIV**]; [no pfa]; [Note: box marked '*L. calcareum* f.? monstrøs [= monstrous] f. *compressa*?']; **TRH C1-2877**.
- [Anon.]; Irland [= Republic of Ireland]; Ballinakill [= Ballynakill]; [no habitat data]; [no date]; [no slides]; ex Herb. Brit. Mus. [**BM**], 1899, number 19; pfa: Printz 1929, pl. 16, fig. 16; [Note: box marked '*Spongites compressa* = *L. calcareum* f. *compr.*']; **TRH C1-2879**.
- [Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [**DBN**], number 35; [no pfa]; [Note: box marked '*L. calcareum* f. *compressa* & overg. [= & grading into] *L. coralloides* f. *flabelligera*'. Grouped with two other collections of *L. calcareum* (f. *compressa*) (C1-2881, C1-2882), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), four collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2910, C1-2911, C1-2912) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2880**.
- [Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. [Dublin] [**DBN**], number 37 (one of 2 boxes numbered 37); [no pfa]; [Note: grouped with two other collections of *L. calcareum* (f. *compressa*) (C1-2880, C1-2882), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), four collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2910, C1-2911, C1-2912) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2881**.
- [Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin [**DBN**], number 77; [no pfa]; [Note: box marked '*L. calcareum* f. *compr.-palmatifida*'. Grouped with two other collections of *L. calcareum* (f. *compressa*) (C1-2880, C1-2881), two collections of *L. calcareum* f. *calcareum* (C1-2858, C1-2859), four collections of *L. calcareum* f. *squarrulosa* (C1-2909, C1-2910, C1-2911, C1-2912) and one collection of *L. calcareum* f. *subsimplax* (C1-2915) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2882**.

calcareum, Lithothamnion (f. coralloides) [originally described as *Spongites coralloides* (P.L. & H.M. Crouan 1852: No. 242) but subsequently (P.L. & H.M. Crouan 1867: 151) transferred without change in rank into *Lithothamnion*, and then (Foslie 1905c: 68) reduced to the rank of forma and treated as *Lithothamnion calcareum* f. *coralloides* (as '*coralloides*'), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 74-75 under species without mention of forma. One additional collection (a probable isoneotype) is in Drawer C2, listed under *coralloides*, *Spongites*. The final epithet *coralloides* was consistently misspelled *coralloides* by Foslie and by many others in publication]. **Neotype: BM**, specimen 242 in the exsiccata *Algues Marines du Finistère* (Chamberlain & Irvine 1994b: 177, 182). Additional information on *Algues Marines du Finistère* provided by Woelkerling & Lamy (1998: 671-672).

Foslie; Irland [= Republic of Ireland]; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; 'lok. 2 & 3 [= locality 2 & 3]' (see Foslie 1899a); pfa: Printz 1929, pl. 16, fig. 8; [Note: box marked '*L. calcareum* f. *coralloides* delvis [= in part]' and '(s. m. [= mixed with] f. *squarr.*)'. Grouped with three collections of *L. calcareum* f. *squarrulosa* (C1-2899, C1-2900, C1-2901) and one collection of *L. calcareum* f. *compressa* (C1-2864) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik record 6 boxes, but only 5 were found]; **TRH C1-2884**.

Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 17.vi.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, fig. 12; [Note: annotation slip in box marked 'I nærheden af [= close to] *L. norvegicum*'. Adey & Lebednik 1967: 75 mistakenly list collector as 'Norman']; **TRH C1-2885**.

Weiss; Republic of Ireland; Valencia [Island], Port Magee Channel between Valencia Island and the mainland; collection depth: ca 5 fathoms, with considerable tidal current; 1897;

[no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip with collection data also marked 'B'. Another slip marked 'Mindste ekspl., sp. konc. i toppen af gr.? [= smallest specimen, sporangial conceptacles in the top of branch?]]. Collection not included in Adey & Lebednik 1967]; **TRH C1-2886**.

Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C1-2887**.

[Anon.]; [Italy]; Neapel [= Naples]; [no habitat data]; 1896; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 2, figs 3-4; [Note: box marked '*L. calcareum* f. *squarrulosa coralloides*']; **TRH C1-2889**.

[Anon.]; [United Kingdom]; England, south coast; collection depth: ca 10 fathoms; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, numbers 9-10 (two numbers on the same box), ex herb. Kew Gardens [**K**] ex herb. Kew Gardens [**K**], numbers 9-10; [no pfa]; [Note: grouped with five collections of *L. calcareum* (f. *calcareum*) (C1-2825, C1-2826, C1-2827, C1-2828, C1-2829) under one entry by Adey & Lebednik 1967: 74, who list Cotton as the collector and xi.1905 as the collection date. A letter from Cotton to Foslie dated 7.xi.1905, however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at **K** are now housed at **BM**]; **TRH C1-2883**.

calcareum, Lithophyllum (f. eunana) [first listed as a nomen nudum (Foslie 1898b: 10), then (Foslie 1899c: 15 (published 5.i.1899)) formally described as *Lithophyllum calcareum* f. *eunana*, then (Foslie 1899a: 176 (published vii.1899)) transferred without change in rank into *Lithothamnion*, as *Lithothamnion calcareum* f. *eunana*, then (Foslie 1900a: 30) transferred without change of rank into *Lithothamnion fasciculatum*, as *L. fasciculatum* f. *eunana*, where Foslie retained it in publication, but name not updated on the one collection in his herbarium. Collection listed in Adey & Lebednik 1967: 74 under *Lithothamnion calcareum* without mention of forma]. **Holotype**: **TRH**, C1-2891 (see below).

Hanna; Irland [= Republic of Ireland]; County Antrim, Larne Harbour; collection depth: 7 fathoms; 18.vii.1898; slides 235-236; [no other collection data]; [no pfa]; [Note: **Holotype** of *Lithophyllum calcareum* f. *eunana* Foslie. Additional data — Woelkerling 1993: 86. Collection consists of one larger round original box, one smaller round original box and two slides housed in a newer brown box. Larger round box marked with collection data and with '*L. calcareum* f. partim [= in part]' and 'delvis [= in part] "*eunana*", udgaar som form [= omitted as form]'. Smaller round box (with fragments) marked 'konc. [= conceptacles]' and '*L. calcareum*'; **TRH C1-2891**.

calcareum, Lithothamnion (f. palmatifida) [first formally described as *Lithothamnion squarulosum* f. *palmatifida* (Foslie 1899c: 6) (but listed earlier (Foslie 1898b: 6) as a nomen nudum), then (Foslie 1900i: 13) transferred without change in rank into *Lithothamnion calcareum* as *L. calcareum* f. *palmatifida*, where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 74-75 under *Lithothamnion calcareum* without mention of forma]. **Lectotype**: **TRH**, C1-2892 (see below).

Rosenvinge; [Denmark]; østl. [= Eastern] Kattegat, Fladen; collection depth: 13 fathoms; 12.v.1893; slides 90-91; Rosenvinge collection number 3387a, [ex] Bot. Mus. Kbhavn [**C**]; pfa: Printz 1929, pl. 16, fig. 20; [Note: **Lectotype** of *Lithothamnion squarulosum* f. *palmatifida* Foslie. Additional data — Woelkerling 1993: 168. Collection consists of two original round boxes housed in a newer brown box. Larger round marked '*L. calcareum* (Pall.) Aresch. f. *palmatifida* Fosl.' and 'med overgangsform til [= with transitional form to] *compressa* og [= and] f. *coralloides* (Crm.)'. Annotation slip in larger round box marked 'Koncept. ligner s. hos *foecundum* ca. 300 μ indbefattet ringen, ca 30-40 porer [= conceptacles looks like *foecundum* ca 300 μ included the ring, ca 30-40 pores]'. Smaller round box

- marked '*L. calcareum*' (no mention of f. *palmatifida*) and '= præp. [= slide] 90-91' and 'Sp. konc. [= sporangial conceptacles] 300-400 μ '. Slides marked with collection number '3387' not '3387a' as on box lid. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'. Grouped under one entry in Adey & Lebednik (1967: 75) with Rosenvinge collections 3381a (f. *compressa*) (C1-2870), 3387b (f. *valida* = f. *calcareum*) (C1-2841) and 7478 (f. *palmatifida*) (C1-2893); **TRH C1-2892**.
- [Rosenvinge]; [Denmark]; østl. [= Eastern] Kattegat, Trindelens, fyrskib [= light-ship], i V.t.S. [= west by south], $\frac{3}{4}$ S [= south], $2\frac{1}{2}$ kvm [= nautical miles]; collection depth: 15-16 fathoms; 26.vii.1904; [no slides]; Rosenvinge collection number 7478 from locality 'ZB' (see Rosenvinge 1909: 30), [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. calcareum* f. *palmatifida* – *coralloides* næmer sig ogsaa [= nearly also to] f. *subsimpler*'. Grouped under one entry in Adey & Lebednik (1967: 75) with Rosenvinge collections 3381a (f. *compressa*) (C1-2870), 3387a (lectotype of *Lithothamnion squarrulosum* f. *palmatifida*) (C1-2892), and 3387b (f. *valida* = f. *calcareum*) (C1-2841)]; **TRH C1-2893**.
- [Anon.]; Isle of Man; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Mrs. Hannah Robertson, Millport (1903); [no pfa]; [Note: grouped with a collection of *L. calcareum* (C1-2855) under one entry in Adey & Lebednik 1967: 74. Adey & Lebednik mistakenly list 'Robertson' as the collector]; **TRH C1-2894**.
- [Anon.]; Isle of Man; off St. Annes Head; [no habitat data]; [no date]; slides 265-266; ex herb. Univ. College, Liverpool [collections now at LIV], (1899); [no pfa]; [Note: box marked '*L. calcareum* f. *palmatifida* (delvis [= in part])' and "samples of neritic deposit composed entirely of *Lithothamnia*". Annotation slip in box marked 'f. *palmatifida*?'. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'. Grouped with C1-2896 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2895**.
- [Anon.]; Isle of Man; off St. Annes Head; [no habitat data]; [no date]; slide 267; ex herb. Univ. College, Liverpool [collections now at LIV]; pfa: Printz 1929, pl. 16, fig. 5; [Note: box marked '*L. calcareum* (f. *palmatifida*) (delvis [= in part])'. Grouped with C1-2895 under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2896**.
- [Anon.]; [United Kingdom]; Scotland, Kilbranan Sound; collection depth: 20 fathoms; [no date]; [no slides]; comm. Mrs. Robertson, 1903; [no pfa]; [Note: box marked '*L. calcareum* fere [= nearly] f. *palmatifida*'. Adey & Lebednik 1967: 74 mistakenly list 'Robertson' as the collector]; **TRH C1-2898**.
- [Anon.]; [United Kingdom]; [Scotland], Orkney [Islands]; [no habitat data]; [no date]; [no slides]; ex herb. Brit. Mus. [BM], 1899, number 18; [no pfa]; [Note: annotation slip in box marked 'Sands. [= probably] *calcar.* f. *palmatifida*?'. Adey & Lebednik 1967:74 mistakenly give 1899 as the collection date]; **TRH C1-2897**.

***calcareum*, *Lithothamnion* (f. *squarrulosum*).** See listing above for ***calcareum*, *Lithothamnion* (f. *australis*).**

***calcareum*, *Lithothamnion* (f. *subsimpler*)** [originally described as *Lithothamnion coralloides* f. *subsimpler* (Batters 1892a: 177), but subsequently (Foslie 1898b: 5) transferred without change of rank into *Lithothamnion squarrulosum* as *L. squarrulosum* f. *subsimpler*, and then (Foslie 1900i: 13) transferred without change of rank into *Lithothamnion calcareum* as *L. calcareum* f. *subsimpler*, and thereafter retained under that name by Foslie in publication. Collections listed in Adey & Lebednik 1967: 74 under *Lithothamnion calcareum* without mention of forma]. **Lectotype: BM**, (Woelkerling 1993: 214).

Batters; [United Kingdom]; Scotland, Cumbrae; collection depth: 7 fathoms; viii.1891; slides 82-83; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 38-42, and Printz 1929, pl. 16, fig. 23; [Note: **Isolectotype** of *Lithothamnion coralloides* f. *subsimpler* Batters. Additional data — Woelkerling 1993: 214. Foslie (1905c: 68) transferred the taxon to

Lithothamnion calcareum (as f. *subsimpler*). Box marked '*L. calcareum* f. *subsimpler* & overg. [= transition]'. Both slides marked '*L. squarulosum* f. *australis*'. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1'.

Grouped with the lectotype of *Lithothamnion corallioides* f. *australis* (C1-2918) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2913**.

Foslie; Irland [= Republic of Ireland]; Roundstone, Blackhaven passage; [no habitat data]; 17.iv.1899; [no slides]; station 6 (see Foslie 1899a); [no pfa]; [Note: box marked '*L. calcareum* f. *subsimpler* (delvis [= in part])'. Grouped with two collections of f. *squarulosa* (C1-2902, C1-2903) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2914**.

[Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. [Dublin] [**DBN**], number 37 (one of 2 boxes numbered 37); pfa: Printz 1929, pl. 16, figs 24, 27; [Note: box marked '*L. calcareum* f. *subsimpler* & overg. [= transition]'. Grouped with two collections of *L. calcareum* (f. *calcareum*) (C1-2858, C1-2859), three collections of *L. calcareum* f. *compressa* (C1-2880, C1-2881, C1-2882) and four collections of *L. calcareum* f. *squarulosa* (C1-2909, C1-2910, C1-2911, C1-2912) under one entry in Adey & Lebednik 1967: 74]; **TRH C1-2915**.

[Anon.]; [United Kingdom]; Scotland, Lamlash Bay, Arran; collection depth: 14 fathoms; [no date]; [no slides]; comm. Mrs. Hannah Robertson, 1902; [no pfa]; [Note: box marked 'Udtaget af [= taken out of] *L. norv.* f. *similis*' and 'Ikke fundet konc. [= no conceptacles found]'. Relevant collection of *L. norvegicum* f. *similis* is C3-2997. Adey & Lebednik 1967: 74 list Robertson as collector and 1902 as the collection date]; **TRH C1-2916**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. coralloides* f. *subsimpler* Batt. of my fascic. E.M. Holmes (1901) = *L. calcareum* f. *subsimpler*' and 'Tømte [= empty]' and 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Rev. sy.... P. 13, no. 34'. It is unclear whether Holmes 1901 is the collector and whether 1901 is the collection date. Adey & Lebednik 1967: 74 list entry as 'Holmes, 1901']; **TRH C1-2917**.

compressa, Melobesia. See listing above for ***calcareum, Lithothamnion* (f. *compressa*)**

corallioides, Spongites. See listing above for ***calcareum, Lithothamnion* (f. *corallioides*)**. Also see listing for ***corallioides, Spongites*** in Drawer C2

***corallioides, Lithothamnion* (f. *australis*)**. See listing above for ***calcareum, Lithothamnion* (f. *australis*)**

***corallioides, Lithothamnion* (f. *compressa*)** [originally described as *Lithothamnion corallioides* f. *compressa* (Heydrich 1901a: 539). Subsequently, Foslie (1901d: 26) stated that Heydrich's material seemed to be partly *L. corallioides* f. *flabelligera* and partly *L. calcareum* f. *compressa* and that recognition as a new form was unwarranted. Collections listed in Adey & Lebednik 1967: 74 under *Lithothamnion calcareum*]. **Holotype: PC**, apparently missing (Woelkerling 1998c: 335-336). Also see Woelkerling 1993: 56-57.

Malard; Frankreich [= France]; Halbinsel Cotensin [= Cotensin Peninsula]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: **Isotype** of *Lithothamnion corallioides* f. *compressa* Heydrich. Additional data — Woelkerling 1993: 56 and Woelkerling 1998c: 335. Box marked '*L. coralloides* f. *compressa* Heydr. in *Lith. Mus. Paris* [= Heydrich 1901a: 539] cfr. [= cf.] Fosl. in Ber. Deutsch b. Ges. [= Foslie 1901d: 26] (ex parte) = *L. calcareum* f. *compressa* delvis [= in part]'. Collecton filed under *Lithothamnion calcareum* by Foslie]; **TRH C1-2868**.

Malard; [France]; St. Vaast-la-Hougue; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. coralloides* f. *compressa* Heydr. in "*Lith. Mus.*

Paris" ex parte [= Heydrich 1901a: 539] cfr. [= cf.] Fosl. in Ber. Deutsch bot. Ges. [= Fosl. 1901d: 26] = *L. corall. f. flabell.?* *L. calcar.* og [= and] *L. frutic.?*. Annotation slip in box marked 'fruticul. concept.! [= *fruticulosum* conceptacles!']; **TRH C1-2869.**

corallioides, Lithothamnion (f. crassa) [originally described as *Lithothamnion corallioides* f. *crassa* (Heydrich 1901a: 539). Subsequently, Foslie (1901d: 25-26) stated that Heydrich's material reminded him of deformed *Lithothamnion calcareum* or *L. fruticosum* or young *Lithophyllum fasciculatum*, and that this forma was not worth recognizing as a distinct taxon. Specimen filed with collections of *Lithothamnion calcareum* in Foslie's herbarium and listed in Adey & Lebednik 1967: 74 under *L. calcareum* without mention of the forma]. **Holotype: PC**, General Herbarium (Woelkerling 1998c: 336).

[Anon.]; France; Concarneau; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: **Holotype fragments** of *Lithothamnion corallioides* f. *crassa* Heydrich. Additional data — Woelkerling 1998c: 336. Box marked 'L. coralloides f. crassa Heydr. in "Lith. Mus. Paris" [= Heydrich 1901a] Concarneau, France cfr. [= cf.] Foslie in ~~Deutsch Bot. Ges.~~ [= Foslie 1901d: 25]' and 'Heydr. Mel ---' [writing unclear]. Box also marked 'L. fascic. og [= and] L. frutic. - calc.?']. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Adey & Lebednik 1967: 74 mistakenly list 'Heydrich' as collector]; **TRH C1-2890.**

corallioides, Lithothamnion (f. subsimplex). See listing above for *calcareum*, *Lithothamnion (f. subsimplex)*

fasciculatum, *Lithothamnion (f. eunana)*. See listing above for *calcareum*, *Lithothamnion (f. eunana)*

norvegicum, Lithothamnion (f. australis). See Wittrock collection from Haugesund (C1-2888) under listing above for *calcareum Lithothamnion (f. australis)*

squarrulosum, Lithophyllum. See listing above for *calcareum, Lithothamnion (f. australis)*

squarrulosum, Lithophyllum (f. palmatifida). See listing above for *calcareum, Lithothamnion (f. palmatifida)*

Case C, Drawer 2

During the present study, one note that could not be matched to any collection was found in Drawer C2. The note has been placed in an envelope marked 'Loose note found in Drawer C2'.

corallioides, Spongites [originally described as *Spongites corallioides* (P.L. & H.M. Crouan 1852: No. 242) but subsequently (P.L. & H.M. Crouan 1867: 151) transferred without change in rank into *Lithothamnion*, and then (Foslie 1905c: 68) reduced to the rank of forma and treated as *Lithothamnion calcareum* f. *corallioides* (as 'coralloides'), where Foslie retained it in publication. Additional collections are in Drawer C1 – see listing for *calcareum, Lithothamnion (f. corallioides)*]. **Neotype: BM**, specimen 242 in the exsiccata *Algues Marines du Finistère* (Chamberlain & Irvine 1994b: 177, 182). Additional information on *Algues Marines du Finistère* provided by Woelkerling & Lamy (1998: 671-672).

[Anon.]; [France]; Finistère; [no habitat data]; [no date]; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists only of one slide. Slide labelled 'Spongites corallioides' and 'Cr. Alg. Mar. du Finistère nr. 242 [= specimen 242 in Crouan & Crouan (1852), *Algues marines du Finistère*]' (see Sayre 1969: 68 and Lamy & Woelkerling 1998c: 90-93). **Probable isoneotype** material of *Spongites corallioides* P.L. & H.M. Crouan. Additional data — Woelkerling 1998c: 390. Collection not included in Adey & Lebednik 1967; **TRH C2-2919**.

corallioides, *Lithothamnion* (f. *minuta*) [first formally described as *Lithothamnion corallioides* f. *minuta* (Foslie 1899c: 7) (but listed earlier (Foslie 1898b: 6) as a nomen nudum). Subsequently (Foslie 1908a: 214 (also see Foslie 1905c: 69) treated as a heterotypic synonym of *Lithothamnion solutum*. The type of *Lithothamnion corallioides* f. *minuta* was found with other collections of *L. solutum* in Foslie's herbarium. Collection listed in Adey & Lebednik 1967: 75 under *Lithothamnion solutum* without mention of forma]. **Holotype:** **TRH**, C2-2920 (see below).

[Anon.]; [France]; Golfe du [= Gulf of] Morbihan, Ile Holavre; [no habitat data]; 20.viii.1872; slides 277, 1157; [ex] herb. Thuret (Bornet) [**PC**], collection number 3; pfa: Printz 1929, pl. 17, fig. 17; [Note: **Holotype** of *Lithothamnion corallioides* f. *minuta* Foslie. Additional data — Woelkerling 1993: 150. Box marked 'Præp. [= slide] 1157 af næstst. [= of second largest]' and 'f. *minuta*' and '*L. frutic.* f. *soluta?*'. One annotation slip in box has cell measurements and is marked 'Præp. [= slide] 1157' and '*L. fruticul.* f. *minuta*' [apparently an unpublished herbarium name]. Another annotation slip marked '*Lithothamnion coralloides* (Crouan)' and 'Ile Holavre, dans le Golfe du Morbihan!' and '20.viii.1872'. Foslie (1908a: 214) subsequently subsumed *L. corallioides* f. *minuta* into *L. solutum* (see listings below)]; **TRH C2-2920**.

fruticulosum, *Lithothamnion* (f. *soluta*). See listing below for **solutum, *Lithothamnion***

heterocladum, *Lithothamnion* [originally described as *Lithothamnion heterocladum* (Foslie 1905e: 16, as f. *crassa*, a superfluous name for f. *heterocladum* — see Woelkerling 1993: 116), where Foslie retained it in publication]. **Lectotype:** **TRH**, C2-2923 (see below).

Michaelsen; [Chile]; Fuegia [= Tierra del Fuego Archipelago] [but see Note], Smyth Channel, Long Island; [no habitat data]; 10.viii.1893; slide 665; collection depth: 8 fathoms; [no pfa]; [Note: box marked '*Lith. calcareum* Har. & *L. squarros.* f. *australis* Heydr. in "Lith. Mus. Paris" [Heydrich 1901a] = *L. calc.* f.? non *L. australe*'. Slide marked 'Herb. Mus. Paris' [**PC**]. The epithet *heterocladum* is not written on box, but the collection is cited in the species protologue (Foslie 1905e: 16-17). Box is marked 'Fuegia', but Smyth Channel is situated in the Reina Adelaida Archipelago, just north of the Tierra del Fuego Archipelago]; **TRH C2-2921**.

Von Paessler; [Chile]; [Reina Adelaida Archipelago, just north of the Tierra del Fuego Archipelago], Smyth Channel, Puerto Bueno; [no habitat data]; 1888; [no slides]; ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked '*L. calcareum* f. *valida?*' and 'steril [= sterile]'. The epithet *heterocladum* is not written on box, but the collection is cited in the species protologue (Foslie 1905e: 16-17). Adey & Lebednik 1967: 75 omit mention of collector]; **TRH C2-2922**.

[Anon.]; [Chile]; [Tierra del Fuego Archipelago], [Tierra del Fuego Island], Straits of Magellan, Isthmus Harbour; collection depth: 8 fathoms; i.1876; slide 474 [missing]; ex herb. Kew Gardens [**K**], Challenger Expedition; pfa: Foslie 1907c, pl. 1, fig. 25, and Printz 1929, pl. 17, fig. 1; [Note: **Lectotype** of *Lithothamnion heterocladum* Foslie. Additional data — Mendoza 1988: 175 and Woelkerling 1993: 116. Box marked '*L. calcareum* Dickie scr. = *L. heterocladum*'. One annotation slip in box marked 'Ant. & subant. Corall pl. 1, fig. 25' [i.e. Foslie 1907c]. Another slip marked 'Sands. form af *calc.* efter strukt. — habituelt m.

lig. *Lith.* n. sp. [= probably form of *calc.* after structure – in habit very similar to *Lith.* new species] and 'Siboga exp.'. Algal collections originally at **K** are now housed at **BM**]; **TRH C2-2923**.

heterocladum, Lithothamnion (f. gracilis) [originally described as *Lithothamnion heterocladum* f. *gracilis* (Foslie 1905e: 17), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 75 under species without mention of forma]. **Lectotype:** **TRH, C2-2925** (see below).

Skottsberg; Fuegia [= Tierra del Fuego], [country uncertain]; Beaglekanalen [= Beagle Channel]; [no habitat data]; 15.iii.1902; [no slides]; station 10a, Swedish South Polar Expedition 1901-1903; [no pfa]; [Note: **Lectotype** of *Lithothamnion heterocladum* f. *gracilis* Foslie. Additional data — Woelkerling 1993: 109. It is uncertain whether the collection comes from the Chilean or Argentinean sector of the Beagle Channel]; **TRH C2-2925**.

Skottsberg; [Argentina]; [Tierra del Fuego Archipelago], Observatorie øen [= Observatory Island]; collection depth: 25 metres, 'sten [= stone]'; 6.i.1902; slide 937; Swedish South Polar Expedition 1901-1903; pfa: Foslie 1907c, pl. 1, figs 21-22, and Printz 1929, pl. 17, figs 2, 4; [Note: incorrectly selected as lectotype of *L. heterocladum* by Adey & Lebednik 1967: 75 and Adey 1970b: 20 (see Woelkerling 1993: 116)]; **TRH C2-2924**.

pulchrum, Lithothamnion [originally described as *Lithothamnion pulchrum* (Weber-van Bosse & Foslie in Foslie 1901c: 3), where Foslie retained it in publication]. **Lectotype:** **TRH, C2-2926** (see below).

[Weber-van Bosse]; [Indonesia]; Celebes, [Paternoster Islands], Sailus Besar; [no habitat data]; 17.-18.ii.1900; one slide labelled S.E. 470 (Siboga Expedition collection number); Siboga Expedition, station 315, collection 470; [no pfa]; [Note: **Lectotype** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Collection consists of two original boxes housed in a newer brown box. Larger box contains specimens and is marked by someone other than Foslie with collection data and with species name underlined in orange to indicate that is type material. Smaller box is empty and is marked in Foslie's writing '*Lithoth. pulchrum*' and 'Siboga Exp. 470 Stat. 315' and 'Sailus Besar 17/18.ii.1900'. Grouped with S.E. 463 (C2-2928) and S.E. 468 (C2-2927) under one entry in Adey & Lebednik 1967: 75, without mention of slide]; **TRH C2-2926**.

[Weber-van Bosse]; [Indonesia]; [Celebes], [Paternoster Islands], [Sailus Besar]; [no habitat data]; [17.-18.ii.1900]; [no slides]; Siboga Expedition, [station 315], collection 468; [no pfa]; [Note: **Isolectotype** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Collection includes one specimen marked 'S.E. 468' and a small round original box (empty) marked 'S.E. 468 & S.E. 465, mindste [= smallest]' and '*L. pulchrum*'. Locality and collection data taken from Verheij & Woelkerling 1992: 284. Photocopied annotation slip in box (original in C2-2928) marked '*L. pulchrum*' and 'Stat. 315' and 'S.E. 462 [= C2-2930], 468 [= C2-2927], 475 [= C2-2931], 1264 [= C2-2932], 463 [= C2-2928], 465 [= C2-2929]' and '17.-18. II.1900'. Grouped with S.E. 470 (C2-2926) and S.E. 463 (C2-2928) under one entry in Adey & Lebednik 1967: 75]; **TRH C2-2927**.

[Weber-van Bosse]; [Indonesia]; [Celebes], Paternoster Islands, Sailus Besar; [no habitat data]; 17.-18.ii.1900; [no slides]; Siboga Expedition, station 315, collection 463; pfa: Foslie 1904b, pl. 4, fig. 9, and Printz 1929, pl. 18, fig. 9; [Note: **Isolectotype fragments** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Collection consists of four fragments. Main portion of collection 463 is in **L**. Original box marked '*Lith. pulchrum*' and 'Siboga Exp., stat. 315' and 'Sailus Besar, Paternoster Isl, 17.-18.ii.1900' and 'Brudst. af forskj. nr. (største af S.E. 463 – pl. IV, fig. 9) [= fragments from different numbers (largest from S.E.

463 – pl. IV, fig. 9)’. Annotation slip in box marked ‘*L. pulchrum*’ and ‘Stat. 315’ and ‘S.E. 462 [= C2-2930], 468 [= C2-2927], 475 [= C2-2931], 1264 [= C2-2932], 463 [= C2-2928], 465 [= C2-2929]’ and ‘17.-18. II.1900’. Grouped with S.E. 470 (C2-2926) and S.E. 468 (C2-2927) under one entry in Adey & Lebednik 1967: 75]; **TRH C2-2928**.

[Weber-van Bosse]; [Indonesia]; Celebes, Paternoster Islands, Sailus Besar; [no habitat data]; 17.-18.ii.1900; [no slides]; Siboga Expedition, station 315, collection 465; [no pfa]; [Note: **Isolectotype fragments** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Collection consists of three fragments. Main portion of collection 465 is in L. Verheij & Woelkerling 1992: 284. Photocopied annotation slip in box (original in C2-2928) marked ‘*L. pulchrum*’ and ‘Stat. 315’ and ‘S.E. 462 [= C2-2930], 468 [= C2-2927], 475 [= C2-2931], 1264 [= C2-2932], 463 [= C2-2928], 465 [= C2-2929]’ and ‘17.-18. II.1900’. See note for C2-2927 concerning empty small round box marked ‘S.E. 468 & S.E. 465, mindste [= smallest]’ and ‘*L. pulchrum*’. Collection not included in Adey & Lebednik 1967]; **TRH C2-2929**.

[Weber-van Bosse]; [Indonesia]; [Celebes], [Paternoster Islands], Sailus Besar; [no habitat data]; 17.-18.ii.1900; one slide labelled S.E. 462 (Siboga Expedition collection number); Siboga Expedition, station 315, collection 462; [no pfa]; [Note: **Isolectotype (slide only)** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Main portion of collection 462 apparently is in NY (Verheij & Woelkerling 1992: 284) (not seen). Photocopied annotation slip in box (original in C2-2928) marked ‘*L. pulchrum*’ and ‘Stat. 315’ and ‘S.E. 462 [= C2-2930], 468 [= C2-2927], 475 [= C2-2931], 1264 [= C2-2932], 463 [= C2-2928], 465 [= C2-2929]’ and ‘17.-18. II.1900’. Collection not included in Adey & Lebednik 1967]; **TRH C2-2930**.

[Weber-van Bosse]; [Indonesia]; [Celebes], [Paternoster Islands], Sailus Besar; [no habitat data]; 17.-18.ii.1900; one slide labelled S.E. 475 (Siboga Expedition collection number); Siboga Expedition, station 315, collection 475; [no pfa]; [Note: **Isolectotype (slide only)** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Main portion of collection 475 was given to Prof. Moll by Weber-van Bosse (Verheij & Woelkerling 1992: 284) (present whereabouts uncertain). Photocopied annotation slip in box (original in C2-2928) marked ‘*L. pulchrum*’ and ‘Stat. 315’ and ‘S.E. 462 [= C2-2930], 468 [= C2-2927], 475 [= C2-2931], 1264 [= C2-2932], 463 [= C2-2928], 465 [= C2-2929]’ and ‘17.-18. II.1900’. Collection not included in Adey & Lebednik 1967]; **TRH C2-2931**.

[Weber-van Bosse]; [Indonesia]; [Celebes], [Paternoster Islands], Sailus Besar; [no habitat data]; 17.-18.ii.1900; one slide labelled S.E. 1264 (Siboga Expedition collection number); Siboga Expedition, station 315, collection 1264; pfa: Foslie 1904b, pl. 4, fig. 10; [Note: **Isolectotype (slide only)** of *Lithothamnion pulchrum* Weber-van Bosse in Foslie. Additional data — Verheij & Woelkerling 1992: 284 and Woelkerling 1993: 183. Main portion of collection 1264 is in L. Photocopied annotation slip in box (original in C2-2928) marked ‘*L. pulchrum*’ and ‘Stat. 315’ and ‘S.E. 462 [= C2-2930], 468 [= C2-2927], 475 [= C2-2931], 1264 [= C2-2932], 463 [= C2-2928], 465 [= C2-2929]’ and ‘17.-18. II.1900’. Collection not included in Adey & Lebednik 1967]; **TRH C2-2932**.

solutum, *Lithothamnion* [originally described as *Lithothamnion fruticosum* f. *soluta* (Foslie 1904d: 7) but subsequently (Foslie 1906b: 14) raised to the rank of species, namely *Lithophyllum solutum*, and thereafter retained under that name by Foslie in publication]. **Lectotype**: TRH, C2-2934 (see below).

Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Brionische Inseln [= Brioni Islands], bei [= near] Pola, östl. von [= east of] St. Andrea; collection depth: 33 metres; 10.i.1897; [no slides]; [no other collection data]; pfa: Foslie 1904d, pl. 1, figs 22-28, and Printz 1929, pl. 17, figs 20-25; [Note: collection consists of two original round boxes housed in a newer brown box. Larger round box marked with collection data and with ‘*L. fruticosum* f. *so-*

- luta solutum*. Smaller round box contains fragments and is marked with some collection data. Grouped with C2-2934 and C2-2936 under one entry in Adey & Lebednik 1967: 75, who omitted mention of precise locality information, collection depth information, and the Printz figures]; **TRH C2-2935**.
- Kuckuck; [Croatia]; Adriaterhavet, [= Adriatic Sea], Brionische Inseln [= Brioni Islands], Pola, zw. [= between] St. Giovanni u. dem Leuchtturm [= and the lighthouse]; collection depth: 24-38 metres; 7.vi.1895; slide 627; [no other collection data]; pfa: Foslie 1904d, pl. 1, figs 29-33, and Printz 1929, pl. 17, figs 9-12; [Note: collection consists of one larger and two smaller original round boxes housed in a newer brown box. Larger round box marked with collection data and with '*L. fruticulosum* f. *solutum*'. One small box (housing some fragments) marked with locality and pfa data. Other small box (rediscovered during present study and housing one fragment) marked '*L. solutum*' and 'Adriaterhavet, 7.vi.1895' and '= præp. [= slide] 627' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with C2-2934 and C2-2935 under one entry in Adey & Lebednik 1967: 75, who omitted mention of precise locality information, collection depth information, the slide, and the Printz figures]; **TRH C2-2936**.
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj], nach dene [= past] Quietto, vor spitze [= in front of the point] Del Dente; collection depth: 15-23 metres; 14.xi.1899; slide 628; [no other collection data]; pfa: Foslie 1904d, pl. 1 [incorrectly given as 3 on the box], figs 18-21, and Printz 1929, pl. 17, figs 13-15; [Note: **Lectotype** of *Lithothamnion fruticosum* f. *solutum* Foslie. Additional data — Woelkerling 1993: 203. Collection consists of one larger original box and two smaller original boxes, both with fragments, housed in a newer brown box. Larger original box marked '*L. solutum* (ialf. delvis [= at least partly])'. One small box marked 'Lithoth. Monogr. pl. 17, fig. 13-15' and 'Rovigno, Del Dente' and '14.xi.1899'. Second small box marked 'Sp. konc. [= sporangial conceptacles]' and 'Præp. [= slide] 628'. Slide marked '*L. coralloides* *fruticosum* f. *solutum*'. Grouped with C2-2935 and C2-2936 under one entry in Adey & Lebednik 1967: 75, who omitted mention of detailed locality information, collection depth information, the slide, and the Printz figures]; **TRH C2-2934**.
- Kuckuck; Phoenicia [now Lebanon]; Beirut; collection depth: 15-20 metres; 19.iii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C2-2937**.
- Vanhöffen; [Cape Verde]; St. Vincent; [no habitat data]; ix.1901; [no slides]; Gauss Expedition [= German South Polar Expedition 1901-1903]; [no pfa]; [Note: box marked 'Brudstk. af eneste ekspl. [= fragment of the only specimen]']; **TRH C2-2939**.
- [Anon.]; [France]; Finistère, Morlaix og [= and] Ile Holavre [= Holavre Island]; [no habitat data]; viii.1877; slides 273, 276; [ex] herb. Thuret (Bornet) [PC], number 2; pfa: Printz 1929, pl. 17, figs 18-19; [Note: box marked '*Lith. coralloides* Cr. Herb. Thuret (Bornet)' and '*L. solutum* (delvis [= in part]) (og [= and] *L. calcareum*)' and 'ikke konc. [= no conceptacles]'. One annotation slip in box marked 'Lidt mindre cell. end f. *soluta* [= some smaller cells than f. *soluta*]' and 'Ikke konc. paa grenene! [= no conceptacles on the branches!]' . Another slip is printed 'Herb. G. Thuret' and 'Donné par M' Ed. Bornet' and is handwritten 'no. 2' and '*Lithothamnion coralloides* (Crouan)' and 'Drague à l'embouchure de la rivière de Morlaix (Finistère)' and 'viii.1877'. Slide 276 marked '*Lithothamnion coralloides* Cr. f. *flabelligera* Fosl.']; **TRH C2-2940**.
- [Anon.]; Grækenland [= Greece]; Nisyro-øen [= Nisyro Island]; [no habitat data]; [no date]; [no slides]; comm. Prof. Spyridion Miliarakis; pfa: Printz 1929, pl. 17, fig. 16; [Note: box marked 'Ingen konc. [= without conceptacles]'. Adey & Lebednik list Miliarkis as the collector]; **TRH C2-2938**.
- [Anon.]; Mauritania; Cap Blanc; [no habitat data]; [no date]; slide 1661; [comm.] Hariot (Mus. Paris) [PC], 1908, number 4; [no pfa]; [Note: box marked '*Lithoth. solutum* (?)' with another unreadable species name blackened out. Grouped with C2-2942 under one entry in Adey & Lebednik 1967: 75, who mistakenly list 'Hariot' as the collector and '1908' as the collection date]; **TRH C2-2941**.

[Anon.]; Mauritania; Cap Blanc; [no habitat data]; [no date]; slide 1662; [comm. Hariot] Mus. Paris [PC], viii.1908, number 1; [no pfa]; [Note: box marked '*Lithoth. solutum* (?)' and 'steril [= sterile]'. Grouped with C2-2941 under one entry in Adey & Lebednik 1967: 75, who mistakenly list 'Hariot' as the collector and '1908' as the collection date]; **TRH C2-2942.**

[Anon.]; Monaco; [no other locality data]; [no habitat data]; [no date]; [no slides]; comm. Hariot, vi.1906, number 1 [material almost certainly sent from PC]; [no pfa]; [Note: box marked '*L. solutum*?' and 'steril [= sterile]'. Adey & Lebednik 1967: 75 mistakenly list 'Hariot' as collector and 'vi.1906' as the collection date]; **TRH C2-2943.**

[Anon.]; Monaco; port de [= harbour in] Monaco, [no other locality data]; [no habitat data]; [no date]; [no slides]; [comm.] Hariot, 1909, number 7; [no pfa]; [Note: box marked '= *Lithoth. solutum*' and '(tømte konc. [= empty conceptacles)]'. Adey & Lebednik 1967: 75 mistakenly list 'Hariot' as collector and '1909' as the collection date]; **TRH C2-2944.**

valens, *Lithothamnion* [originally described as *Lithothamnion valens* (Foslie 1909b: 3) in the year of Foslie's death]. **Holotype:** TRH, C2-2945 (see below).

[Anon.]; [geographic region uncertain, but see Note]; [no locality data]; [no habitat data]; [no date]; slides 1731-1733; [ex] K.K. naturhist. Hofmus, Wien [W] (1909); [no pfa]; [Note: **Holotype** of *Lithothamnion valens* Foslie. Additional data — Woelkerling 1993: 231, Basso 1995: 360, Basso, Fravega & Vammucci 1997: 170, and Woelkerling 1998c: 366. Collection consists of two original round boxes housed in a newer brown box. Larger original box marked ' "*Lithoth. crassum* Phil. Adria" '. 'Adria' probably denotes the Adriatic Sea and suggests this was the collection region, but slides 1731-1733 all marked ' "Adria" (??)' and 'coll. Foslie, Trondheim'. The latter refers to Foslie's collection in Trondheim and not to Foslie as a collector. One annotation slip in box marked 'Prøve sendt Mme Lemoine jan. 1936 [= sample sent to Mme Lemoine January 1936]'. Another slip marked 'Udt. præp. 1733 til tegn og konc. fotogr. [= slide 1733 taken out for drawing and conceptacles for photography]'. Smaller original box, rediscovered during present study, contains fragments and is marked '*L. valens*' and 'Konc. [= conceptacles]']; **TRH C2-2945.**

Case C, Drawer 3

During the present study, one note with a variety of measurements was found in Drawer C2. The note has been placed in an envelope marked 'Loose note found in Drawer C3'. A drawing showing collection localities around Viprandsund also was found. Photocopies have been placed in relevant collections and the original has been placed in an envelope labelled 'Loose drawing of Viprandsund localities found in Drawer C3'. In addition, Foslie's label for Drawer C3 from the original wooden cabinet that once housed his specimens was found amongst the negatives and photographs housed in Drawer C4. It now has been returned to Drawer C3 and placed in an envelope marked 'Label for the original wooden Drawer C3 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

calcareum, *Lithothamnion* (f. *norvegica*). See listing below for ***norvegicum, Lithothamnion***

norvegicum, Lithothamnion [originally described as *Lithothamnion calcareum* var. *norvegicum* (Areschoug 1875: 4), but subsequently (Kjellman 1883: 122) raised to the rank of species, namely *Lithothamnion norvegicum*, then (Foslie 1895a: 90) reduced to the rank of form and treated as *Lithothamnion coralloides* f. *norvegica*, and then (Foslie

1898b: 6) re-elevated to the rank of species as *Lithothamnion norvegicum*, and thereafter retained under that name by Foslie in publication]. **Type:** apparently not designated (Athanasiadis 1996: 44). There is no syntype material in **TRH**.

- Batters; [United Kingdom]; Scotland, Port Bannatyne, Bute; [no habitat data]; x.1895; slide 242; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'nørvæg-? corall.?']. Species name is not on original box lid]; **TRH C3-2946**.
- Collins, F.S.; United States; Maine, Penobscot Bay; collection depth: 20 metres, dredged; x.1898; slide 127; Collins number 3503; [no pfa]; [Note: box marked '“*L. coralloides*” = *L. norvegicum*?'. Annotation slip in box marked 'Cellerne mindre end hos *australis*, *L. norvegic.* fuldst. lig i struktur! [= the cells are smaller than in *australis*, complete equal to *L. norvegicum* in structure!']]; **TRH C3-2947**.
- Foslie; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 17.v.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Collection includes small unmarked box with fragments. Collection not included in Adey & Lebednik 1967. Collection dated only 1897 and labelled *Lithothamnion norvegicum* f. *pusilla* occurs in *Lithothamnium Selecta Exsiccata* (see Chapter 6)]; **TRH C3-2948**.
- Foslie; [Norway]; [Trondheimsfjorden], Bejan [now Beian], Våagrunden nær [= near] Fosen; collection depth: 10-15 fathoms; 7.vii.1894; slide 124; [no other collection data]; pfa: Printz 1929, pl. 16, fig. 36; [Note: box also faintly marked 'Norv. Lith. pl. 16, f. 26' [Foslie 1895a, pl. 16, fig. 26, but that figure pertains to a different species]; **TRH C3-2949**.
- Foslie; [Norway]; [Trondheimsfjorden], Bejan [now Beian]; [no habitat data]; 7.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C3-2950**.
- Foslie; [Norway]; Trondheimsfjorden, Frosta, Aatlo [now Åtlo]; collection depth: 6-8 fathoms; 5.viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. med [= mixed with] *L. laeve*'. Grouped with C3-2952 under one entry in Adey & Lebednik 1967: 75]; **TRH C3-2951**.
- Foslie; [Norway]; Trondheimsfjorden, Frosta, Aatlo [now Åtlo]; collection depth: 6-8 fathoms; 5.viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C3-2951 under one entry in Adey & Lebednik 1967: 75]; **TRH C3-2952**.
- Foslie; [Norway]; Trondheimsfjord, Frøsetskjær, Bynes [now Frøsetskjeret, Byneset]; collection depth: 5-6 fathoms [but see Note]; 31.v.1894; slide a¹; [no other collection data]; pfa: Printz 1929, pl. 16, figs 41-42; [Note: box marked '(Dubl. i kasse [= duplicates in case])' but no duplicates occur in the ancillary herbarium (Chapter 5) or the *Lithothamnium Selecta Exsiccata*. Box also marked 'Ekspl. i papir [= specimen in paper]' and 'Gammelt præp. [= old slide] a¹ & a²' and 'Analyse nr. 10' and '4 delte sp. i præp. [= 4-parted sporangia in slide]'. Slide a¹ marked '*L. corall.* f. *typica*' and 'Bynes, Frøsetskjær, 31.v.1894'. Slide a² belongs to C3-2986. Annotation slip with collection marked 'Frøsetskjær, 31.v.1894' and 'Præp. [= slides] a¹ and a²' and '4-5 fathoms' [not 5-6 fathoms as on box lid]]; **TRH C3-2953**.
- Foslie; [Norway]; Trondheimsfjorden, Frøsetskjær, Bynes [now Trondheimsfjorden, Frøsetskjeret, Byneset]; collection depth: 5-6 fathoms; 31.v.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of several specimens/fragments in an old *Flor de Canilla* cigar box]; **TRH C3-2832**.
- Foslie; [Norway]; Trondheimsfjorden, Holmberget; collection depth: 5-6 fathoms; 15.vi.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Dubl. i kasse [= duplicates in case])' and 'Ekspl. i papir [= specimens in paper]'. No duplicates occur in the ancillary herbarium (Chapter 5) or in the *Lithothamnium Selecta Exsiccata*. Annotation slip in box marked '2 præp. af s. ekspl. [= two slides from same specimens]' and 'Ikke overv. konc. [= not overgrown conceptacles]'. No slide were found with the collection or mentioned in Adey & Lebednik 1967: 75]; **TRH C3-2954**.

Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; [no habitat data]; 27.vi.1894 and 1.viii.1894; slide 108; [no other collection data]; pfa: Foslie 1895a, pl. 16, fig. 7; [Note: box marked '*L. coralloides* f. *norvegica*' and 'Smaa ekspl. [= small specimens]' and '1.viii.1894'. Slide marked '*L. norvegicum*'. Additional material with same species name and locality, and dated 27.vi.1894 occurs in ancillary herbarium (see Chapter 5)]; **TRH C3-2955.**

Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; collection depth: ca 10 fathoms; 27.vi.1894; one slide labelled oo; [no other collection data]; [no pfa]; [Note: box marked '(Dubl. i kasse [= duplicates in case])' and 'Ekspl. i papir: gammelt præp. oo [= specimen in paper: old slide oo]'. Annotation slip in box marked 'Præp. [= slide] oo' and 'overv. konc. spars. [= overgrown conceptacles sparse]' and 'sp. 4 delte [= sporangia 4-parted]'. Slide marked '*L. gracilioides*' and 'Hvor ekspl.? ell. [= where is specimen? or] = pl. 16, f. ??'. '*L. gracilioides*' appears to be an unpublished herbarium name (also see C5-3013, C6-3021). 'pl. 16, fig. 7' involves C3-2955. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH C3-2956.**

Foslie; Irland [= Republic of Ireland]; Roundstone, Bertraghboy Bay; collection depth: ca 4 fathoms; 14.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. norveg.?*']; **TRH C3-2957.**

Gran; [Norway]; Espevær; [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. med. [= mixed with] *calcareum*)']; **TRH C3-2958.**

Hanna; Irland [= Republic of Ireland]; Fahy Bay, Ballinakill [now Ballynakill] Harbour; [no habitat data]; viii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: original box lid marked '*L. norvegicum?*' and 'steril [= sterile]'. Underside of box marked '*L. calc.?*'. Grouped with C3-2960 under one entry in Adey & Lebednik 1967: 76]; **TRH C3-2959.**

Hanna; Irland [= Republic of Ireland]; Fahy Bay, Ballinakill [now Ballynakill] Harbour; collection depth: 1-1½ fathoms; viii.1899; [no slides]; [no other collection data]; [no pfa]; [Note: original box lid marked '*L. norvegicum?*' and 'steril [= sterile]'. Underside of box marked '*L. calc.?*'. Grouped with C3-2959 under one entry in Adey & Lebednik 1967: 76]; **TRH C3-2960.**

Levensen; Denmark; øst for [= east of] Samsø; [no habitat data]; 5.vi.1899; [no slides]; ex herb Bot. Mus. Kbh. [C]; [no pfa]; [Note: box marked 'med. koncept. [= with conceptacles]' and '*L. norvegicum* f. *pusilla*', a superfluous substitute name for f. *norvegicum*]; **TRH C3-2961.**

Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; ii.1897; slides 109-110; [no other collection data]; pfa: Printz 1929, pl. 16, figs 39-40; [Note: collection includes two fragments in a small box marked '*L. norvegicum*' and 'sp. konc. [= sporangial conceptacles]'. Grouped with nine other 1897 Norum collections (C3-2963 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik (1967: 75) record 11 boxes but only 10 were found]; **TRH C3-2962.**

Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 13.iii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: original box lid faintly marked 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Sp. konc. til fotogr., udtat herfra [= sporangial conceptacles for photography, taken out from here]'. Grouped with nine other 1897 Norum collections (C3-2962, C3-2964 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2963.**

Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 17.iv.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with nine other 1897 Norum collections (C3-2962 – C3-2963, C3-2965 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as

- 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2964.**
- Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 21.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes a small unmarked box with one specimen/fragment. Grouped with nine other 1897 Norum collections (C3-2962 – C3-2964, C3-2966 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2965.**
- Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 16.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with nine other 1897 Norum collections (C3-2962 – C3-2965, C3-2967 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2966.**
- Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Collection includes small unmarked box with two fragments. Grouped with nine other 1897 Norum collections (C3-2962 – C3-2966, C3-2968 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2967.**
- Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 13.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with nine other 1897 Norum collections (C3-2962 – C3-2968, C3-2970 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2969.**
- Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 15.x.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with nine other 1897 Norum collections (C3-2962 – C3-2967, C3-2969 – C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2968.**
- Norum; [Norway]; Haugesund, Vipransund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 20.xi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Collection includes fragments in a small box marked '146' [meaning of number uncertain but possibly referring to slide 146, which is part of B11-2323, the lectotype of *Lithothamnion glaciale* f. *botrytoides*]. Grouped with nine other 1897 Norum collections (C3-2962 – C3-2969, C3-2971) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2970.**
- Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 22.xii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes one fragment in a small unmarked box. Grouped with nine other 1897 Norum collections (C3-2962 – C3-2970) under one entry in Adey & Lebednik 1967: 75, who mistakenly list collector as 'Norman'. Adey & Lebednik 1967: 75 record 11 boxes but only 10 were found]; **TRH C3-2971.**
- Norum; [Norway]; Røvær, Sandsund; collection depth: 6 fathoms; 1.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. norvegicum* f.'. Adey & Lebednik 1967: 76 mistakenly list collector as 'Norman']; **TRH C3-2972.**
- Robertson, D.; [United Kingdom]; [Scotland], Cumbrae; [no habitat data]; [no date]; [no slides]; ex herb. E.M. Holmes [BM, not BIRM as indicated by Stafleu & Cowan 1979: 260], 1901; [no pfa]; [Note: box marked '*L. norvegicum* f. *globulata*' = *L. norvegicum*?']; **TRH C3-2973.**

- Rosenvinge; [Denmark]; [Samsø], Aarhus bugt [= bay], s.f. [= south of] Sletterhage; collection depth: 7½ fathoms; 21.viii.1891; slide 118; Rosenvinge collection number 1801 (2 æsker [= two boxes]) (C3-2974, C3-2975), [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. norvegicum* f. *pusilla*', a superfluous substitute name for f. *norvegicum*. Slide marked '1801 delvis [= in part]'. Grouped with C3-2975 and C3-2976 under one entry in Adey & Lebednik 1967: 76]; **TRH C3-2974.**
- Rosenvinge; [Denmark]; [Samsø], Aarhus bugt [= bay, s.f. [= south of] Sletterhage; collection depth: 7½ fathoms; 21.viii.1891; slide 119; Rosenvinge collection number 1801 (2 æsker [= two boxes]) (C3-2974, C3-2975), [ex] Bot. Mus. Kbhavn [C]; pfa: Printz 1929, pl. 16, fig. 43; [Note: box marked '*L. norvegicum* f. *pusilla*', a superfluous substitute name for f. *norvegicum*. Slide marked '1801 delvis [= in part]'. Grouped with C3-2974 and C3-2976 under one entry in Adey & Lebednik 1967: 76]; **TRH C3-2975.**
- Rosenvinge; [Denmark]; [Samsø], Aarhus bugt [= bay], s.f. [= south of] Sletterhage; collection depth: 5¼ fathoms; 21.viii.1891; slide 126; Rosenvinge, collection number 1800a, [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. norvegicum* f. *pusilla*', a superfluous substitute name for f. *norvegicum*. Grouped with C3-2974 and C3-2975 under one entry in Adey & Lebednik 1967: 76]; **TRH C3-2976.**
- Rosenvinge; [Denmark]; Samsøbelt, syd for [= south of] Hjelm; collection depth: 7 fathoms; 17.v.1893; slide 117; Rosenvinge collection number 3522 from locality 'KI' (see Rosenvinge 1909: 37), [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. norvegicum* f. *pusilla*', a superfluous substitute name for f. *norvegicum*]; **TRH C3-2977.**
- Rosenvinge; [Denmark]; Samsø, Lindholms dyb [= deep]; collection depth: 11 fathoms, 'mudderbd. med sten [= mud bottom with stones]'; 21.iv.1894; slide 125; Rosenvinge collection number 4607, [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. norvegicum* f. *pusilla*', a superfluous substitute name for f. *norvegicum*]; **TRH C3-2978.**
- Schreiner; [Norway]; Helgeland, Herø [now Herøy, Nordland county]; [no habitat data]; 28.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 76 mistakenly list the collector as 'Sobreimer']; **TRH C3-2979.**
- Schreiner; [Norway]; Kristianiafj. [= Kristianiafjorden, now Oslofjorden], Nesodden; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 76 mistakenly list the collector as 'Sobreimer']; **TRH C3-2980.**
- Wille; [Norway]; Mandal; [no habitat data]; 6.vii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Dubl i kasse [= duplicates in case])' and 'Koncept. [= conceptacles]'. Duplicates do not occur in the ancillary herbarium (Chapter 5) or in *Lithothamnium Selecta Exsiccata* (Chapter 6). Collection includes fragments in a small box marked '2660' [significance of 2660 uncertain]. Grouped with C3-2982, C3-2983 and C9-2984 under one entry in Adey & Lebednik 1967: 75]; **TRH C3-2981.**
- Wille; [Norway]; Mandal; [no habitat data]; 6.vii.1889; slides 111-113; [no other collection data]; pfa: Printz 1929, pl. 16, fig. 46; [Note: box marked '*L. norvegicum* f.'. Grouped with C3-2981, C3-2983 and C9-2984 under one entry in Adey & Lebednik 1967: 75]; **TRH C3-2982.**
- Wille; [Norway]; Mandal; [no habitat data]; 6.vii.1889; slides 114-115; [no other collection data]; [no pfa]; [Note: box marked 'Gammelt præp. 1-2 [= old slides 1-2]' and 'Ekspl. i papir: præp. 114 lgdsn. [= specimen in paper: slide 114 longitudinal section]' and 'Præp. 115 tversn. [= slide 115 cross-section]' and '*L. norvegicum* f.' and faintly marked '*nodulosum* (nær [= close to] *gracilescens*)'. Grouped with C3-2981, C3-2982 and C9-2984 under one entry in Adey & Lebednik 1967: 75]; **TRH C3-2983.**
- Wille; [Norway]; Mandal; [no habitat data]; 6.vii.1889; slide 116; [no other collection data]; [no pfa]; [Note: box marked 'Ekspl. i papir: præp. 116 [= specimen in paper: slide 116]' and '*L. norvegicum* f.'. Grouped with C3-2981, C3-2982 and C9-2983 under one entry in Adey & Lebednik 1967: 75]; **TRH C3-2984.**
- Wittrock; [Norway]; Haugesund; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, figs 37-38; [Note: collection not included in Adey & Lebednik 1967]; **TRH C3-2985.**

- [Anon.]; [Norway]; Holmberget; [no habitat data]; 15.vi.1894; slides 105-106; [no other collection data]; pfa: Printz 1929, pl. 16, figs 8-11; [Note: box marked '*L. coralloides f. norvegica*'. Adey & Lebednik 1967: omit mention of published figure information]; **TRH C3-2987.**
- [Anon.]; [Norway]; Mandal, mellem [= between] Risø Bank [now Banken] og [= and] Hatholm-Skjæret [now Hattholmen]; collection depth: ca 6 fathoms; 15.vii.1904; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 16, fig. 45; [Note: box marked 'Dubl. i reolen [= duplicates on the shelf]'. Grouped with C3-2990 and C3-2991 under one entry in Adey & Lebednik 1967: 75. Additional material with same species name and date occurs in ancillary herbarium (see Chapter 5)]; **TRH C3-2989.**
- [Anon.]; [Norway]; Mandal, mellem [= between] Risø Bank [now Banken] og [= and] Hatholm-Skjæret [now Hattholmen]; collection depth: ca 6 fathoms; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(forts. af Risø bank [= continuation from Risø Bank])' and 'Sp. konc. [= sporangial conceptacles]' and 'Analyse nr. 11'. Collection includes small round unmarked box with fragments. Grouped with C3-2989 and C3-2991 under one entry in Adey & Lebednik 1967: 75. Additional material with same species name and date occurs in ancillary herbarium (see Chapter 5)]; **TRH C3-2990.**
- [Anon.]; [Norway]; Mandal, Risø bank [now Banken]; collection depth: 3-4 fathoms; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C3-2989 and C3-2990 under one entry in Adey & Lebednik 1967: 75. Additional material with same species name and date occurs in ancillary herbarium (see Chapter 5)]; **TRH C3-2991.**
- [Anon.]; [Norway]; Talvik, Storkorsnes [now Storekorsnes]; collection level: 'ca 10 m o.h. [= metres above sea level]'; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. med [= mixed with] *L. glac.*)' and 'Subfoss. [= subfossil]']; **TRH C3-2992.**
- [Anon.]; [Norway]; Trondheimsfjorden, Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. norvegicum* (?)']; **TRH C3-2993.**
- [Anon.]; [Norway]; [Trondheimsfjorden], Frøsetskjær [now Frøsetskjeret], Byberget; collection depth: 4-5 fathoms; 31.v.1894; slide 107 and slide a²; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 1-6; [Note: box marked '*L. coralloides f. norvegicum*' and '(fig. 4 – største ekspl. [= largest specimen])'. Slide 107 marked '*L. norvegicum*' and 'Byberget, Frøsetskjær, 31.v.1894' and 'Norv. Lith. pl. 16, f. 4'. Slide a² marked 'Byberget, Frøsetskjær, 31.v.1894'. Photocopied annotation slip with collection marked 'Frøsetskjær, 31.v.1894' and 'Præp. [= slides] a¹ og [= and] a²' and '4-5 fathoms'. Slide a¹ and original annotation slip are in C3-2953]; **TRH C3-2986.**
- [Anon.]; [Norway]; Tysfjorden, Korsnes; 'i sandprøve [= in sand sample]'; 1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C3-2988.**
- [Anon.]; [United Kingdom]; Scotland, Lamlash Bay, Arran; [no habitat data]; [no date]; [no slides]; ex herb. E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260, (1899)]; [no pfa]; [Note: box marked '*L. corall. norv.*?'. Adey & Lebednik 1967: 76 mistakenly list 'Holmes' as the collector and '1899' as the collection date]; **TRH C3-2994.**
- [Anon.]; [United Kingdom]; Scotland, Port Bannatyne; collection depth: 5-6 fathoms, dredged; [no date]; [no slides]; comm. Mrs. Hannah Robertson (1902); pfa: Printz 1929, pl. 16, fig. 44; [Note: one annotation slip in box marked 'Port Bannatyne' and 'Dredged from 5-6 fathoms' and 'ex herb. Mrs. Robertson (1902)'. Another slip is marked 'Finder ej sikre konc. [= cannot find conceptacles with certainty]' and 'Unders. nærmere [= examine closer]'. Adey & Lebednik 1967: 76 list Robertson as the collector and 1902 as the collection date]; **TRH C3-2995.**

***norvegicum*, *Lithothamnion* (f. *australis*)**

See Wittrock collection from Haugesund (C1-2888) under *Lithothamnion calcareum* f. *australis* in Drawer C1.

norvegicum, *Lithothamnion* (f. *globulata*) [not listed in Adey & Lebednik 1967). See listing in Drawer B8. Reasons for placement of the holotype of *L. norvegicum* f. *globulata* with collections of *L. intermedium* are unclear (Woelkerling 1993: 108].

norvegicum, *Lithothamnion* (f. *pusilla*)

See under main species. The epithet *pusilla* is a superfluous substitute for the type form of the species (see Woelkerling 1993: 185).

norvegicum, *Lithothamnion* (f. *similis*) [originally described as *Lithothamnion norvegicum* f. *similis* (Foslie 1905c: 66), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 76 under species without mention of forma].

Lectotype: TRH, C3-2996 (see below).

Østergren; [Norway]; Moldøen; collection depth: ca 10 fathoms; 14.viii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 16, figs 30-35; [Note: **Lectotype** of *Lithothamnion norvegicum* f. *similis* Foslie. Additional data — Woelkerling 1993: 202. Collection consists of one larger original round box and two smaller original round boxes housed in a newer brown box. Large round box marked 'f. *similis* Lithoth. Monogr. pl. 16, fig. 30-35' and '*L. norvegicum* delvis [= in part] f. *similis*' and '-----' [cannot read] and 'Steril [= sterile]'. Annotation slip in larger box marked 'Fleste ekspl. døde [= most of the specimens are dead]'. On small round box (with fragments) marked 'Lithoth. Monogr. pl. 16, fig. 30-35' and 'Moldøen, 14.viii.1902'. Second small round box has fragments but is unmarked. Collection not included in Adey & Lebednik 1967]; **TRH C3-2996**.

[Anon.]; [United Kingdom]; Scotland, Lamlash Bay, Arran; collection depth: 14 fathoms; [no date]; [no slides]; comm. Mrs. Hannah Robertson, Fern Bank, Millport N.B., 1902; [no pfa]; [Note: box marked '= *L. norvegicum* f. *similis* delvis [= in part]' and '~~*L. calcareum* f. *subsimplex*~~'. Annotation slip in box marked 'Udtaget ngl. *L. calc. subsimplex* [= some *L. calc. subsimplex* taken out]' and 'Udtag og sorter bedre! [= take out and sort better!]']. Relevant collection of *L. calcareum* f. *subsimplex* is C1-2916]; **TRH C3-2997**.

norvegicum, *Lithothamnion* (f. *uncinatum*) [originally described as *Lithothamnion uncinatum* (Foslie 1895a: 154). Subsequently (Foslie 1897b: 9) reduced to the rank of forma and treated as *Lithophyllum calcareum* f. *uncinatum*, then (Foslie 1898b: 6) re-elevated to species rank as *Lithothamnion uncinatum*, and then (Foslie 1900i: 13, 1905c: 66) again reduced to the rank of forma and treated as *Lithothamnion norvegicum* f. *uncinatum*. Collection listed in Adey & Lebednik 1967: 76 under *Lithothamnion norvegicum* without mention of forma]. **Holotype: TRH, C3-2998** (see below).

[Anon.]; [Norway]; Kragerø; [no habitat data]; 1890; slide 41; [no other collection data]; pfa: Foslie 1895a, pl. 19, figs 11-14; [Note: **Holotype** of *Lithothamnion uncinatum* Foslie. Additional data — Woelkerling 1993: 230. Box marked 'Opfisket ved [= collected at] Kragerø']; **TRH C3-2998**.

uncinatum, *Lithothamnion*. See listing above for **norvegicum, *Lithothamnion* (f. *uncinatum*)**

Case C, Drawer 4

Adey & Lebednik (1967) noted that Drawer C4 contained photographs and negatives but made no further comment.

During the present study, seven groups of glass negatives (each in its own box) and two groups of photographs were found. Six of the seven groups of negatives and all of the photographs relate to plates 1-20 in Printz 1929. These plates were prepared by Foslie, as noted in Printz (1929, p. 5). The negatives are of various specimens or groups of specimens depicted on the plates, and the photographs look like preliminary mock-ups showing how the various negatives were pieced together to form the plates.

One group of three negatives (found together in their own box) were of specimens not present on plates 1-20 in Printz 1929. These most likely are of specimens that Foslie chose not to include in his plates, and apparently, they do not appear in any other Foslie publication. Further study is needed to determine the TRH collections to which the specimens shown in the negatives belong.

Many of the other glass negatives used in Printz are preserved in a cabinet at TRH, but this collection has yet to be examined in detail to determine if all of the negatives are present and to determine whether there are negatives of specimens from other publications or negatives that were not used in publication.

Case C, Drawer 5

***corallioides*, *Lithothamnion* (f. *saxatilis*)** [originally described as *Lithothamnion coralloides* f. *saxatilis* (Foslie 1895a: 90), but subsequently (Foslie 1898b: 6) transferred without change in rank into *Lithothamnion norvegicum* as *L. norvegicum* f. *saxatilis*]. **Lectotype:** TRH, C9-3097 (in Drawer C9).

Note: The following collection (listed under *Lithothamnion nodulosum* in Adey & Lebednik 1967: 76 without mention of the forma) was associated by Foslie (figures cited by Foslie 1905c: 63) with *L. nodulosum* f. *saxatilis*, but *L. nodulosum* f. *saxatilis* and *L. norvegicum* f. *saxatilis* are treated as distinct taxa. The lectotype of *L. corallioides* f. *saxatilis* is in Drawer C9 (C9-3097) while the type of *L. nodulosum* f. *saxatilis* is in Drawer C6 (C6-3044).

[Anon.]; [Norway]; [Trondheimsfjorden], Granviken [now Granvika]; [no habitat data]; 7.vii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 16, fig. 12; [Note: see comment of Foslie 1905c: 63 with reference to the plant in fig. 12. Grouped under one entry in Adey & Lebednik 1967: 76 with a collection of *L. nodulosum* (C3-3017)]; **TRH C5-3018.**

nodulosum*, *Lithothamnion [originally described as *Lithothamnion nodulosum* (Foslie 1895a: 144), then (Foslie 1905b: 3) reduced to the rank of form and treated as *Lithophyllum norvegicum* f. *nodulosum*, and then (Foslie 1905c: 62) re-elevated to species rank as *Lithothamnion nodulosum* and thereafter retained under that name by Foslie in publication. Additional collections are in Drawers C6 and C7]. **Lectotype:** TRH, C5-2999 (see below).

Foslie; [Norway]; [Trondheimsfjorden], Bejan [now Beian], Beiskjæret; [no habitat data]; 6.vii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 3, figs 1-2; [Note: box marked '*L. nodulosum* (?)' and '*L. ung.* f. Norw. Lith. pl. 3, figs 1-2']. Grouped with C5-3016 under one entry in Adey & Lebednik 1967: 76]; **TRH C5-3015.**

Foslie; [Norway]; [Trondheimsfjorden], Bejan [now Beian], Beiskjæret; [no habitat data]; 6.vii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 3, figs 3-4; [Note:

box marked '*L. nodulosum* (?)'. Grouped with C5-3015 under one entry in Adey & Lebednik 1967: 76]; **TRH C5-3016.**

Foslie; [Norway]; [Trondheimsfjorden], Bejan, Smælingsraasa [now Beian, Smellingflua], mell. vestk. af Garten og lille holme syd for Tyvneset [= between west coast of Garten and small islet south of Tyvneset [now Tjuvneset]; collection depth: ca 10 fathoms 'og grundere [= and shallower]'; 7.vii.1894; one slide labelled 6x; [no other collection data]; [no pfa]; [Note: larger original box marked '*Lith. nodulosum* (?)' and 'Steril [= sterile]'. Annotation slip in larger original box contains some locality details and some habitat information. Collection includes one specimen in a small open rectangular box inside the larger box. Annotation slip with specimen marked 'Bejan, Smælingsraasa, 7.vii.1894' and 'nr. 6x' and '= Rotv. f. *divergens*?' and 'Ej overv. koncept. [= not overgrown conceptacles]' and 'nogle [= some] *interm. f.?*'. 'Rotv.' probably means 'Rotvold [now Rotvoll]']; **TRH C5-3014.**

Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894 [incorrectly written as 1896 on outside of box]; slides 169-170; [no other collection data]; pfa: Foslie 1895a, pl. 21, figs 1-2, 4, and Printz 1929, pl. 21, fig. 2 and pl. 25, fig. 3 [but see Note]; [Note: **Lectotype** of *Lithothamnion nodulosum* Foslie. Additional data — Woelkerling 1993: 158, and Woelkerling & Verheij 1995: 67, and Woelkerling 1998c: 356. Collection includes three specimens in a large original quadratic box and one specimen in a smaller round box (rediscovered during the present study). The pfa data on boxes is somewhat inconsistent with information on green tags attached to specimens and with specimens shown in the publications. Quadratic box marked 'Norw. Lith. [= Foslie 1895a] pl. 21, fig. 1, 2, 4' and 'Fig. 2 = Lith. Monogr. [Printz 1929] pl. 25, fig. 3'. Small round box marked 'Lithoth Monogr. [Printz 1929] pl. 21, fig. 2'. Specimen in quadratic box with green tag marked 'pl. 21, f. 3' matches specimen shown in Foslie 1895a, pl. 21, fig. 2 and in Printz 1929, pl. 25, fig. 3. Specimen in quadratic box with green tag marked 'pl. 21, f. 4' does not appear to match a specimen shown in Foslie 1895a or in Printz 1929. Specimen in quadratic box with green tag marked 'pl.21 f.1' (but plate number on tag overwritten with 25) may be part of the specimen depicted in Foslie 1895a, pl. 21, f. 1 but does not match a figure shown in Printz 1929. Specimen in small round box is depicted in Printz 1929, pl. 25, fig. 2 and not pl. 21 fig. 2 as marked on the box. This specimen does not match the one shown in Foslie 1895a, pl. 21, fig. 2 (also see C5-3005). One of two collections flagged as type material in Adey & Lebednik 1967: 76. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C5-2999.**

Foslie; [Norway]; [Trondheimsfjorden], Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 25, figs 7-8; [Note: annotation slip in box marked '*L. nodul. overg. til. [= grading into] f. *congr.*']. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C5-3000.***

Foslie; [Norway]; [Trondheimsfjorden], Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked only with locality and date data. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C5-3001.**

Foslie; [Norway]; [Trondheimsfjorden], Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894; two slides labelled 2; [no other collection data]; [no pfa]; [Note: collection consists of two specimens, nine small fragments and the original box lid housed in a newer brown box. Remainder of original box fell apart and has been discarded. Original box lid marked 'Brækstad, 18.vii.1894' and 'nr. 2 (2 præp. [= two slides])' and '*L. congestum* f.', but slides marked '*L. nodulos.*'. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C5-3002.**

Foslie; [Norway]; [Trondheimsfjorden], Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894; one slide labelled 1; [no other collection data]; [no pfa]; [Note: box marked

- 'nr. 1' and also faintly marked '*L. congestum*'. Slide 1 marked '*L. nodulos.*'. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5); **TRH C5-3003.**
- Foslie; [Norway]; [Trondheimsfjorden], Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of seven large specimens housed in an open wooden box. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C5-3004.**
- Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894 or iii.1896 [see Note]; slide 171; [no other collection data]; [no pfa]; [Note: box marked 'Mindste ekspl. præp. 171 [= smallest specimen slide 171]'. Collection date on box is iii.1896 but on slide 171 is 18.vii.1894. Slide also marked 'Norv. Lith. pl. 21, f. 2 [= Foslie 1895a pl. 21, fig. 2]', but none of the specimens in C5-3005 match the one depicted in Foslie 1895a, pl. 21, fig. 2. Grouped under one entry in Adey & Lebednik 1967: 76 with C5-3006, C5-3007 and C5-3008. Adey & Lebednik record eight 1896 boxes but only four were found in Drawer C5]; **TRH C5-3005.**
- Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: grouped under one entry in Adey & Lebednik 1967: 76 with C5-3005, C5-3007 and C5-3008. Adey & Lebednik record eight 1896 boxes but only four were found in Drawer C5. Additional material with same name, locality and dated ix.1896 occurs in ancillary herbarium (Chapter 5). Material with same name, collector and date occurs in *Lithothamnia Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Ørland, Brekstad)]; **TRH C5-3006.**
- Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 25, fig. 1; [Note: grouped under one entry in Adey & Lebednik 1967: 76 with C5-3005, C5-3006 and C5-3008. Adey & Lebednik record eight 1896 boxes but only four were found in Drawer C5. Additional material with same name, locality and dated ix.1896 occurs in ancillary herbarium (Chapter 5). Material with same name, collector and date occurs in *Lithothamnia Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Ørland, Brekstad)]; **TRH C5-3007.**
- Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. fotogr. [= conceptacles photographed]'. Collection includes fragments in a small unmarked box. Grouped under one entry in Adey & Lebednik 1967: 76 with C5-3005, C5-3006 and C5-3007. Adey & Lebednik record eight 1896 boxes but only four were found in Drawer C5. Additional material with same name, locality and dated ix.1896 occurs in ancillary herbarium (Chapter 5). Material with same name, collector and date occurs in *Lithothamnia Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Ørland, Brekstad)]; **TRH C5-3008.**
- Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a small box containing fragments and two specimens, each wrapped in a piece of paper. Small box marked 'Sp. konc. [= sporangial conceptacles]'. Collection rediscovered during present study and thus not included in Adey & Lebednik 1967. Additional material with same name, locality and dated ix.1896 occurs in ancillary herbarium (Chapter 5). Material with same name, collector and date occurs in *Lithothamnia Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Ørland, Brekstad)]; **TRH C5-3009.**
- Foslie; [Norway]; [Trondheimsfjorden], Frøjen [now Frøya], Vikasundet; [no habitat data]; 11.vii.1894; one slide labelled nr. 4; [no other collection data]; [no pfa]; [Note: box marked 'nr. 4' and also faintly marked '*nodul.?*' and '*(corall. norv.)*' and '*æph.?*'. Grouped with C5-3011 under one entry in Adey & Lebednik 1967: 76]; **TRH C5-3010.**
- Foslie; [Norway]; [Trondheimsfjorden], Frøjen [now Frøya], Vikasundet; [no habitat data]; 11.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulo-*

sum (?)' and 'Blandt [= among] "*L. toph.*"'. Grouped with C5-3010 under one entry in Adey & Lebednik 1967: 76]; **TRH C5-3011**.

Foslie; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; slides 167-168 and one unnumbered slide; [no other collection data]; pfa: Foslie 1895a, pl. 21, figs 3, 5-6, and Printz 1929, pl. 25, fig. 4; [Note: collection consists of a large newer brown box containing one original larger round box (with slides, three annotation slips and specimens/fragments), one empty smaller original round box (inside the larger original box), and one smaller newer brown box (with one specimen and one annotation slip. Larger original box marked '*Lith. nodulosum* f. *typica*' and '(s. med [= mixed with] f. *congregata*)' and '+ præp. [= slide] f.' and 'sp. [= sporangia]'. One annotation slip in larger original box marked 'Skjørn, 20.vii.1894' and 'Præp. [= slide] f' and 'Sp. 4 delte [= sporangia 4-parted]'. Second slip marked 'Konc. [= conceptacles] 300-400µ'. Third slip has cell measurements for slide 167. Slides 167-168 marked '*L. nodulosum*' and 'Skjørn, 20.vii.1894' and 'Norv. Lith. pl. 21, f. 3'. Unnumbered slide marked 'Skjørn, 20.vii.1894' and 'Præp. [= slide] f.' and '*L. nodulos.*' and 'pl. 21, f. 3'. Small empty box marked 'Sp. konc. [= sporangial conceptacles]'. Green tag on specimen in smaller newer brown box marked 'Lith. Mon. pl. 21, f. 4' [probably an error for Printz 1929, pl. 25, fig. 4], but specimen most closely corresponds to the one depicted in Foslie 1895a, pl. 21, fig. 3. Annotation slip with specimen marked 'Præp. [= slides] 167-168' and '*L. nodulosum* f. *typica*' and 's. m. [= mixed with] f. *congregata*' and 'Norw. Lith. p. 21, f. 3, 5, 6' and 'Monogr. pl. 21, fig. 4' and 'Stjørnen, 20.vii.1894' and 'M. Foslie'. One of two collections (C5-2999 and C5-3012) flagged as material in Adey & Lebednik 1967: 76 and referred to by Adey (1970b: 21) as co-types. See Woelkerling 1993: 158 for further information on the typification of the species]; **TRH C5-3012**.

[Anon.]; [Norway]; [Trondheimsfjorden], Granviken [now Granvika]; [no habitat data]; 7.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens and original box lid (remainder of box fell apart and has been discarded) housed in a newer brown box. Original box lid marked '*L. nodul.* (?)'. Grouped under one entry in Adey & Lebednik 1967: 76 with a collection labelled *L. coralloides* f. *saxatilis* (C3-3018)]; **TRH C5-3017**.

[Anon.]; [Norway]; Storfosen [Island], Våagrunden; [no habitat data]; 7.vii.1894; one unnumbered slide; [no other collection data]; [no pfa]; [Note: collection consists of two specimens, the original box lid (remainder of box fell apart and has been discarded), the slide and a small unmarked box with fragments housed in a newer brown box. Original box lid marked 'Præp. største ekspl. [= slide largest specimen]' and '4 delte sp. [= 4-parted sporangia]' and 'Sp. konc. alm. 200-250 sjeldnere 300µ, 30-40 kanaler [= sporangial conceptacles mainly 200-250 rarely 300µ, 30-40 canals]'. Annotation slip with collection marked '4 delte sporer [= 4-parted spores]' and '9.1905' [probably the date Foslie determined that tetrasporangia occurred]. Slide marked 'Storfosen, Våagrunden, 7.vii.1894' and '*L. gracilioides*'. '*L. gracilioides*' appears to be an unpublished herbarium name (also see C3-2956, C6-3021). The species '*L. nodulosum*' is not explicitly mentioned, but all collections in Drawer C5 were referred to *L. nodulosum* by Foslie]; **TRH C5-3013**.

Case C, Drawer 6

gracilescens*, *Lithothamnion. See listing below for ***nodulosum*, *Lithothamnion* (f. *gracilescens*)**

nodulosum*, *Lithothamnion [originally described as *Lithothamnion nodulosum* (Foslie 1895a: 144), then (Foslie 1905b: 3) reduced to the rank of form and treated as *Lithothamnion norvegicum* f. *nodulosum*, and then (Foslie 1905c: 62) re-elevated to spe-

cies rank as *Lithothamnion nodulosum* and thereafter retained under that name by Foslie in publication. Additional collections are in Drawers C5 and C7]. **Lectotype:** TRH, C5-2999 (in Drawer C5).

- Foslie; [Norway]; Trondheimsfjorden, Fløan, Storholmen?; collection depth: ca 3 fathoms; 10.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulosum* f. (og anden art? [= and another species?])'. Annotation slip in box marked 'Sp. 4 delte [= sporangia 4-parted]'. Grouped with a collection of *L. nodulosum* f. *saxatilis* (C6-3043) under one entry in Adey & Lebednik 1967: 76]; **TRH C6-3019.**
- Foslie; [Norway]; [Trondheimsfjorden], Munkholmen; collection depth: 2-5 fathoms; 12.x.1892; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 26, figs 1-2; [Note: box marked '*L. nodulosum* (næsten [= almost] *gracilesc.*)'. Grouped with C6-3035 under one entry in Adey & Lebednik 1967: 76]; **TRH C6-3020.**
- Foslie; [Norway]; Trondheimsfjorden, Munkholmen; collection depth: 2-5 fathoms; 12.x.1892; slides a [missing], b; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. nodulosum*' and 'præp. b med sp. [= slide b with sporangia]'. One specimen in box marked 'b'. Annotation slip in box marked 'Munkhomen, 12.x.92' and 'Ekspl. + præp. a + b [= specimen + slides a + b]' and 'Overv. koncept. men yderst sp. [= overgrown conceptacles but outermost sporangia]' and 'Sp. 4 delte [= sporangia 4-parted]' and '*L. gracilioides*'. '*L. gracilioides*' appears to be an unpublished herbarium name (also see C3-2956, C5-3013). Collection apparently not included in Adey & Lebednik 1967]; **TRH C6-3021.**
- Nordgaard; [Norway]; gaarden Holmen paa eidet mellem [= the farm Holmen on the neck of land between] Borgenfjord [now Bjørgin] og [= and] Kroksvaag [now Kroksvåg]; collection level: '10-15 m o.h. [= metres above sea level], i lergrøft antagelig [= in clay ditch probably]'; 4.x.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulosum*?'. Adey & Lebednik 1967: 77 omit mention of collector and list date as '14.x.1907']; **TRH C6-3022.**
- Norum; [Norway]; Trondheimsfjorden, Beitstadfjorden, Hustadøen [now Hustadøya]; collection depth: 20-30 metres; 17.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. apic.?. nodul.*' and 'Konc. smaa [= small conceptacles]'. Adey & Lebednik 1967: 77 list entry as 'Norman, Norway, Trondh., Beitstad']; **TRH C6-3024.**
- Norum; [Norway]; Trondheimsfjorden, Beitstadfjorden, Vaggen; collection depth: 10-15 metres; 29.vi-4.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a wooden cigar box. Annotation slip in box marked '*L. apicul.* jfr. smaa konc. [= *L. apicul.* cf. small conceptacles]' and '(Vel ej form *nodul.*? [= hardly forma *nodul.*?])'. Collection includes specimens in a small box marked '*L. apic.?*' and 'konc. [= conceptacles]'. Adey & Lebednik 1967: 76 mistakenly list collector as 'Norman']; **TRH C6-3025.**
- Norum; [Norway]; Trondheimsfjorden, Inderøen, Aalbergholmen [now Inderøya, Ålbergholmen]; collection depth: 10-15 metres; 6.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box lid faintly marked 'Sp. konc. [= sporangial conceptacles] ca. 300' and '.....' [word difficult to read] and '*L. apic. nodul.*'. Collection includes fragments in a smaller box marked 'Konc. [= conceptacles]'. Adey & Lebednik 1967: 77 omit mention of the date and depth data and mistakenly list collector as 'Norman']; **TRH C6-3023.**
- Norum; [Norway]; Trondheimsfjorden, Beitstadfjorden, Ramberg [now Ramsberget in Mosvik municipality] (i [= in] Værran?); collection depth: 10-15 metres; 6.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box very faintly marked '*L. nodul.* (?)'. Collection includes several small specimens in a small box marked 'Konc. i udvikl. (= interm. ej skarpt begr.) [= conceptacles in growth! (= *interm.* not sharply defined)]'. '*interm.*' possibly refers to *Lithothamnion intermedium* (see Drawer B8). Apparently grouped with C6-3026 under one entry in Adey & Lebednik 1967: 76, who mistakenly list the collector as 'Norum'. The two collections have different dates and collection depths, not mentioned in Adey & Lebednik]; **TRH C6-3027.**

- Norum; [Norway]; Trondheimsfjorden, Ramberggrunden, Ramberg [now Ramsberget in Mosvik municipality] (i [= in] Værran?); collection depth: 15-20 metres; 7.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a wooden cigar box. Box faintly marked '*L. apic. nodul. (?)*' and 'Ikke sp. [= no sporangia]'. Annotation slip in box marked 'Konc. smaa og ej skarpt begr. [= conceptacles small and not sharply defined]'. Collection includes specimens in a small box marked 'Konc. [= conceptacles]'. Collection apparently grouped with C6-3027 under one entry in Adey & Lebednik 1967: 76, who mistakenly list the collector as 'Norman'. The two collections have different dates and collection depths, not mentioned in Adey & Lebednik]; **TRH C6-3026.**
- Norum; [Norway]; Trondheimsfjorden, Værran [now Verran], Sloatberg (Thun [= Thunbugten, now Tunshamna]); collection depth: 20-30 metres; 8.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. nodul.?*' and 'Ikke sp. [= no sporangia]' but collection also includes several specimens in a small box marked 'Konc. [= conceptacles]'. Adey & Lebednik 1967: 77 mistakenly list collector as 'Norman']; **TRH C6-3028.**
- Norum; [Norway]; Trondheimsfjorden, Værran [now Verran], Thunbugten [now Tunshamna]; collection depth: 10-15 metres; 8.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a larger original round box containing a smaller original box and housed in a newer brown box. Larger box faintly marked '*L. nodul. (?)*'. Annotation slip in larger box marked 'Konc. [= conceptacles]' and 'Ikke fundet sp. [= no sporangia found]'. Smaller box unmarked but contains two fragments. Grouped with C6-3029 under one entry in Adey & Lebednik 1967: 76, who mistakenly list the collector as 'Norman' and who omit mention of the collection depth]; **TRH C6-3030.**
- Norum; [Norway]; Trondheimsfjorden, Værran [now Verran], Thunbugten [now Tunshamna]; collection depth: 10-15 metres; 8.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'Ung – konc. [= young – conceptacles]'. Box contains slip marked '*L. nodulosum*' and 'Sunniva Baardseth Sept. 1924'. Collection not listed in Adey & Lebednik 1967, but rediscovered during the present study]; **TRH C6-3031.**
- Norum; [Norway]; Trondheimsfjorden, Værran [now Verran], Thunskjærene [by Tunsøra]; collection depth: 15-20 metres; 8.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. nodul. (?)*..... *L. laeve*' [text between two species names unclear]. Grouped with C6-3030 under one entry in Adey & Lebednik 1967: 76, who mistakenly list the collector as 'Norman', omit mention of the collection depth, and give the locality as 'Verran, Thunbugten']; **TRH C6-3029.**
- Øyen; [Norway]; Ophaug [now Opphaug], Ørlandet; [no habitat data]; 1901; [no slides]; ex Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked 'Subfossil'. Adey & Lebednik 1967: 77 list collector as Quen]; **TRH C6-3032.**
- Swenander; [Norway]; Hiteren, Knarlagsund [now Hitra, Knarlagsundet]; collection depth: 15 metres; 21.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'NB sp.? [= NB sporangia?] –' and faintly marked '*L. nodul.*'; **TRH C6-3033.**
- [Anon.]; [Norway]; Trondhjem [now Trondheim]; 'Fra hysemave [= found in stomach of a haddock] (Ravnkloa)'; 5.xi.1907; [no slides]; [no other collection data]; [no pfa]; [Note: Ravnkloa is a fish market in Trondheim]; **TRH C6-3034.**
- [Anon.]; [Norway]; Trondheimsfjorden, Munkholmen; [no habitat data]; 20.vi.1902; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C6-3020 under one entry in Adey & Lebednik 1967: 76]; **TRH C6-3035.**
- [Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 21, fig. 6, and pl. 22, fig. 12, without reference to a publication'; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Collection consists of two fragments, one of which is in a paper packet marked 'Cyst. konc. [= cystocarpic conceptacles]' and 'pl. 21, f. 6' and 'Norw. Lith. [= Foslie 1895a, pl. 21, fig. 6]'. Collection not included in Adey & Lebednik 1967, but rediscovered during the present study]; **TRH C6-3036.**

nodulosum, *Lithothamnion* (f. *gracilescens*) [originally described as *Lithothamnion gracilescens* (Foslie 1895a: 87) but later (Foslie 1900i: 13 and 1905c: 62) reduced to the rank of forma and treated as *Lithothamnion nodulosum* f. *gracilescens*. Not mentioned in Foslie publications after 1905. Collections listed in Adey & Lebednik 1967: 77 under *Lithothamnion norvegicum* without mention of forma]. **Lectotype: TRH, C6-3037** (see below).

[Foslie]; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll]; [no habitat data]; 6.vi.1984; slides 97-99; [no other collection data]; pfa: Foslie 1895a, pl. 15, figs 20-25, and Printz 1929, pl. 26, figs 3-5; [Note: **Lectotype** of *Lithothamnion gracilescens* Foslie. Additional data — Woelkerling 1993: 109, and Woelkerling & Verheij 1995: 55, and Woelkerling 1998c: 346. Box marked '*L. gracilescens nodul.*'. Green tags attached to three of the six specimens present respectively marked 'Lith. Mon. [= Printz 1929] pl. 22, f. 3' and 'Lith. Mon. pl. 22, f. 4' and 'Lith. Mon. pl. 22, f. 5'. Plate number incorrectly given as 22 but should be 26. Slides marked '*L. gracilescens*' and 'Norv. Lith. [= Foslie 1895a] pl. 15, f. 23'. Grouped with C6-3039, C6-3040 and C6-3041 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5). Collection also represented in *Lithothamnium Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Strinda, Rotvoll)]; **TRH C6-3037**.

Foslie; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll]; [no habitat data]; 6.vi.1894; three slides marked ax, b, and c; [no other collection data]; [no pfa]; [Note: collection composed of three slides and four rectangular boxes (all with fragments) rediscovered during present study and grouped here into one larger brown box. Three of the rectangular boxes respectively marked 'Præp. [= slide] ax', 'Præp. [= slide] b' and 'Præp. [= slide] c'. Slide ax marked '*L. congestum*' and '*gracilioides*'. Slide c also marked '*saxatile*'. Fourth rectangular box marked 'Cyst. koncept. [= cystocarpic conceptacles]'. Rectangular boxes contain fragments that probably came from the lectotype collection (C6-3037). Small boxes not mentioned in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5). Collection also represented in *Lithothamnium Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Strinda, Rotvoll)]; **TRH C6-3038**.

Foslie; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll], Fokskjær; [no habitat data]; 6.vi.1894; one slide marked axx; [no other collection data]; [no pfa]; [Note: collection composed of one slide and a rectangular box (with fragments) rediscovered during present study and placed here into one larger brown box. Fragments almost certainly originated from C6-3039 or C6-3040. Rectangular box marked 'Præp. [= slide] axx'. Slide marked '*L. congestum*'. Collection not included in Adey & Lebednik]; **TRH C6-2694**.

Foslie; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll], Fokskjær; collection depth: 4-5 fathoms; 6.vi.1984; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ung [= young] *L. nodulosum* f. *gracilescens* ell. [= or] *L. norvegicum*?'. Grouped with C6-3037, C6-3040 and C6-3041 under one entry in Adey & Lebednik 1967: 77]; **TRH C6-3039**.

Foslie; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll], Fokskjær; collection depth: 4-5 fathoms; 6.vi.1984; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Dubl. i kasse [= duplicates in case])' and '*L. gracilescens nodul.*' and 'Ekspl. paa sten og ngl. med konc. [= specimens on stone and some with conceptacles]'. Grouped with C6-3037, C6-3039 and C6-3041 under one entry in Adey & Lebednik 1967: 77]; **TRH C6-3040**.

Foslie; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll], Fokskjær; collection depth: 4-5 fathoms; 24.iii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Dubl. i kasse [= duplicates in case])' and '*L. nodulosum* f. *gracilescens*' and '(*L. norvegicum* iblandt? [= at times?])'. Grouped with C6-3037, C6-3039 and C6-3040 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C6-3041**.

nodulosum, Lithothamnion (f. saxatilis) [originally described as *Lithothamnion nodulosum* f. *saxatilis* (Foslie 1905c: 62), but not mentioned in Foslie's subsequent publications. Not to be confused with *Lithothamnion norvegicum* f. *saxatilis* (see listing in Drawer C5). Collections listed in Adey & Lebednik 1967: 76-77 under *Lithothamnion nodulosum* without mention of forma]. **Lectotype: TRH, C6-3044** (see below).

- Foslie; [Norway]; Inderøen [now Inderøya], Strømmen; collection depth: 2-6 fathoms; 1.viii.1893; slide x; [no other collection data]; [no pfa]; [Note: original round box contains about 25 specimens and some fragments. Green tag attached to one specimen marked 'x'. Annotation slip in box marked with locality and date data also marked 'Præp. [= slide] x' and 'Hab. nær *patulum* men ngt. finere [= habit close to *patulum* but some finer]' and 'Sp. 4 delte [= sporangia 4-parted] 38x100' and 'Overv. konc. [= overgrown conceptacles]' and '*saxat.*'. Slide marked 'Præp. [= slide] x' and 'Inderøen, 1.viii.1893' and '*L. pusillum*'. *L. pusillum* appears to be an unpublished herbarium name, but also is mentioned in two other collections in Drawer C6 (C6-3042, C6-3044). Collection rediscovered during present study. Collection not included in Adey & Lebednik 1967]; **TRH C6-3863.**
- Foslie; [Norway]; Trondheimsfjorden, Fløan; [no habitat data]; 3.-10.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulosum* f. *saxatilis* delvis [= in part]' and 'Fertile' and '(Sterile i anden æske [= sterile in another box])'. Box also faintly marked 'Ekspl. i papiret 4 delte sp. [= specimen in paper 4-parted]'. One specimen is enclosed in paper. Grouped with a collection of *L. nodulosum* f. *nodulosum* (C6-3019) under one entry in Adey & Lebednik 1967: 76]; **TRH C6-3043.**
- Foslie; [Norway]; [Trondheimsfjorden], Frosta, Øxningen [now Øksningen]; collection depth: 6-8 fathoms; 16.vi.1894; one unnumbered slide; [no other collection data]; pfa: Printz 1929, pl. 26, fig. 6; [Note: collection includes one larger original round box (with one smaller original round box inside) housed in a newer brown box. Annotation slip in larger round box marked 'Præp. [= slide]' and 'Overv. konc. [= overgrown conceptacles]' and 'Et sp. 4 delte [= one sporangia 4-parted]' and 'pl. 26, f. 6 Lith. Monogr. [= Printz 1929, pl. 26, fig. 6]'. Slide marked with locality and date and with '*Lith. pusillum*'. '*Lith. pusillum*' appears to be an unpublished herbarium name (also see C6-3044 and C6-3863). Smaller box, which is marked 'Lith. Monogr. pl. 26, f. 6 [= Printz 1929, pl. 26, fig. 6]', contains specimen depicted in Printz 1929, pl. 26, fig. 6]; **TRH C6-3042.**
- [Foslie]; [Norway]; [Trondheimsfjorden], Tautra; [no habitat data]; 15.vi.1894; slide 103; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 18-20; [Note: box marked 'Lithoth. Monogr. [= Printz 1929] pl. 22, fig.' but without listing a figure. Woelkerling (1993: 196) incorrectly states in the entry for *L. nodulosum* f. *saxatilis* that this collection is the type of *L. corallioides* f. *saxatilis*. The type of *L. corallioides* f. *saxatilis* is in Drawer C9 (C9-3097). Grouped with C6-3044 under one entry in Adey & Lebednik 1967: 76. Collection also represented in *Lithothamnion Selecta Exsiccata* (Chapter 6) but with modern locality name (Nord-Trøndelag, Tautra)]; **TRH C6-3045.**
- Foslie; [Norway]; Trondheimsfjorden, Tautra, Gargrunnen [now Gardsgrunnen]; collection depth: 8-10 fathoms; 15.vi.1894; two slides, marked 'a' and 'b' respectively; [no other collection data]; pfa: Printz 1929, pl. 26, figs 7-9 [incorrectly marked on box as pl. 22, figs 7-9]; [Note: **Lectotype** of *Lithothamnion nodulosum* f. *saxatilis* Foslie. Additional data — Woelkerling 1993: 196, who incorrectly states that the plants depicted in Foslie 1895a, pl. 16, figs 18-20 constitute the type of *L. corallioides* f. *saxatilis* (see C6-3045). The type of *L. corallioides* f. *saxatilis* is in Drawer C9 (C9-3097). Collection includes specimens in a small box marked '*L. nodulosum*' and 'Lith. Monogr. pl. 22, fig. 7-9 [= Printz 1929, pl. 26, figs 7-9]'. Both slides marked '*Lith. pusillum*' (apparently an unpublished herbarium name) (also see C6-3042 and C6-3863). Grouped with C6-3045 under one entry in Adey & Lebednik 1967: 76. Collection also represented in *Lithothamnion Selecta Exsiccata* (Chapter 6) but with modern locality name (Nord-Trøndelag, Tautra)]; **TRH C6-3044.**

Hoel; [Norway]; nær [= near] Stenkjær [now Steinkjer], i jernbaneskjæring ved [= in railway cutting at] Hundlo; collection level: '25 m o.h. [= metres above sea level]'; 1.vii.1904; slide 1646; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulosum* f. *saxatilis*?']; **TRH C6-3046.**

Øyen; [Norway]; Indbryn [now Innbryn], Stod; [no habitat data]; 1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulosum* f. *saxatilis*?' and 'Subfoss.']. Adey & Lebednik 1967: 77 list collector as Quen; **TRH C6-3047.**

norvegicum*, *Lithothamnion* (f. *nodulosum*).** See listing above for ***nodulosum*, *Lithothamnion

Case C, Drawer 7

During the present study, one note was found that could not be matched to any collection. The note has been placed in an envelope marked 'Loose note found in Drawer C7 that cannot be matched to any collection'.

***congregatum*, *Lithothamnion*.** See listing below for ***nodulosum*, *Lithothamnion* (f. *congregatum*)**

nodulosum*, *Lithothamnion [originally described as *Lithothamnion nodulosum* (Foslie 1895a: 144), then (Foslie 1905b: 3) reduced to the rank of form and treated as *Lithophyllum norvegicum* f. *nodulosum*, and then (Foslie 1905c: 62) re-elevated to species rank as *Lithothamnion nodulosum* and thereafter retained under that name by Foslie in publication. Additional collections are in Drawers C5 and C6]. **Lectotype: TRH, C5-2999** (in Drawer C5).

Boye; [Norway]; [Sognefjorden], Sulen [now Sula], indre [= inner] Stensund [now Steinsund], indenskjærs [= in sheltered waters]; collection depth: ca 14 metres; probably vii.1894 [difficult to read]; [no slides]; Boye collection number 29; [no pfa]; [Note: box marked '*L. nodul.* (*tusterense*?)' and 'Et par ekspl. *L.oides*' [cannot read species name] faintly in pencil]; **TRH C7-3048.**

[Foslie]; [Norway]; Bergen, Puddefjorden; collection depth: 3-5 fathoms; 25.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konsept. [= conceptacles]' and faintly marked '*L. nodul.* (?)'. Collection includes one fragment in a small unmarked box with an annotation slip marked '400-500 μ '. Grouped with C7-3050 and C7-3051 under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik mention 4 boxes but only 3 were found]; **TRH C7-3049.**

[Foslie]; [Norway]; Bergen, Puddefjorden; collection depth: 3-5 fathoms; 25.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]'. Box lacks the name '*L. nodulosum*' but locality cited in Foslie 1905c: 64. Grouped with C7-3049 and C7-3051 under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik mention 4 boxes but only 3 were found]; **TRH C7-3050.**

Foslie; [Norway]; Bergen, Puddefjorden; collection depth: 3-5 fathoms; 25.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '4 delte sp. [= 4-parted sporangia]'. Box lacks the name '*L. nodulosum*' but locality cited in Foslie 1905c: 64. Grouped with C7-3049 and C7-3050 under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik mention 4 boxes but only 3 were found]; **TRH C7-3051.**

Foslie; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; slide xox; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. nodulosum* (ung [= young])' and 'sp. [= sporangia]'. Slide marked '*L. gracillioides*'. Grouped with one collec-

tion of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3063-C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3052.**

[Foslie; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 26, fig. 12; [Note: collection consists the original box lid, specimens, and fragments in a small original box, housed inside a newer brown box. Remainder of original box fell apart and has been discarded. Original box lid marked '4 delte, 2 delte og udelte sp. [= 4-parted, 2-parted and unparted sporangia]'. Original box lid also marked '*L. nodulosum*' but plate in Printz is labelled 'f. *congregatum*'. Small box inside large box contains fragments and is marked 'Cystoc. [= cystocarpic]'. Grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3064 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3063.**

[Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 and C7-3065 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3064.**

[Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 – C7-3064 and C7-3066 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3065.**

[Foslie]; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; 20.vii.1894; slides ox, oxx; [no other collection data]; [no pfa]; [Note: the locality name 'Skjørn' occurs on both slides and on annotation slip in box with other collection data. Slides also marked '*L. congregatum?*'. Grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 – C7-3065 and C7-3067 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3066.**

[Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 – C7-3066 and C7-3068 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3067.**

[Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 – C7-3067 and C7-3069 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3068.**

[Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 – C7-3068 and C7-3070 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3069.**

- [Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with one collection of *L. nodulosum* f. *congregatum* (C7-3062) and nine other collections of *L. nodulosum* (f. *nodulosum*) (C7-3052, C7-3063 – C7-3069 and C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3070.**
- [Foslie]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Koncept. [= conceptacles]'. Grouped with one collection of *L. nodulosum* (f. *nodulosum*) (C7-3062) and nine other collections of *L. nodulosum* f. *congregatum* (C-3052, C7-3063 – C7-3070) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found]; **TRH C7-3071.**
- Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; slides b-c, 95-96; [no other collection data]; pfa: Foslie 1895a, pl. 15, figs 26-27 [as *L. gracilescens*]; [Note: box marked '*Lithoth. granii* f. ell. [= or] *nodulosum*? med unge sp.? [= with young sporangia?]' and 'Sp. 2 delte [= sporangia 2-parted]' and '*tusterense*?' and '*(L. gracilesc. Norw. Lith. pl. 15, fig. 26, 27)*'. Slide 'b' also marked '*gracilioides*', an unpublished herbarium name. Grouped with C7-3054 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3053.**
- [Gran]; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; slide a; [no other collection data]; [no pfa]; [Note: box marked '*L. nodulosum*?' and 'Sp. 4 delte [= sporangia 4-parted]'. Grouped with C7-3053 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3054.**
- Palibin; [Norway]; Bergens omegn [= environs of Bergen]; [no habitat data]; 1903; [no slides]; Palibin collection number 1; pfa: Printz 1929, pl. 25, fig. 6; [Note: box marked 'leg. Dr Johan Palibin (St. Petersburg)'. Green tag on one of two specimens in box incorrectly marked 'Lith. Mono. pl. 21, f. 6 [should be pl. 25, i.e. Printz 1929, pl. 25, fig. 6]'. Collection includes one fragment in a small box marked '1267' [possibly a field collection number]. Grouped with C7-3056, C7-3057, C7-3058 and C7-3059 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3055.**
- Palibin; [Norway]; Bergens omegn [= environs of Bergen]; [no habitat data]; 1903; [no slides]; Palibin collection number 3; [no pfa]; [Note: box marked 'leg. Dr Johan Palibin (St. Petersburg)'. Collection includes fragments in a small box marked '908' [possibly a field collection number]. Annotation slip in small box marked '4 delte sp. [= 4-parted sporangia]'. Grouped with C7-3055, C7-3057, C7-3058 and C7-3059 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3056.**
- Palibin, Johan; [Norway]; Bergens omegn [= environs of Bergen]; [no habitat data]; 1903; [no slides]; Palibin collection number 4; pfa: Printz 1929, pl. 25, fig. 5; [Note: box marked 'leg. Dr Johan Palibin (St. Petersburg)'. Green tag on one of two specimens in box incorrectly marked 'Lith. Mono. pl. 21, f. 5' [should be pl. 25, i.e. Printz 1929, pl. 25, fig. 5]. Grouped with C7-3055, C7-3056, C7-3058 and C7-3059 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3057.**
- Palibin; [Norway]; Bergens omegn [= environs of Bergen]; [no habitat data]; 1903; [no slides]; Palibin collection number 5; [no pfa]; [Note: box marked 'leg. Dr Johan Palibin (St. Petersburg)'. Grouped with C7-3055, C7-3056, C7-3057 and C7-3059 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3058.**
- Palibin; [Norway]; Bergens omegn [= environs of Bergen]; [no habitat data]; 1903; [no slides]; Palibin collection number 7; [no pfa]; [Note: box marked '*L. nodulosum*?' and 'leg. Dr Johan Palibin (St. Petersburg)'. Grouped with C7-3055, C7-3056, C7-3057 and C7-3058 under one entry in Adey & Lebednik 1967: 77]; **TRH C7-3059.**
- Vilke; [Norway]; Bergen, Puddefjorden; [no habitat data]; 3.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: label in box marked with collection data also marked '*Lithothamnion polymorphum nodul. (?)*' and '*Algæ Norvegicæ*'. Collection not included in Adey & Lebednik 1967]; **TRH C7-3060.**

Vilke; [Norway]; Bergen, Puddefjorden; 'sublit. [= sublittoral]'; 2.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip in box with locality and date data also marked 'Sublit.'. Another annotation slip marked 'I sin videre utvikl. (delvis løsnende) nærmer den sig tils. *L. norveg.* dels *L. nodul.* [= in its forward growth (in part unattached) grading into *L. norveg.* in part *L. nodul.*]. Collection not included in Adey & Lebednik 1967]; **TRH C7-3061**.

nodulosum, *Lithothamnion* (f. *congregatum*) [originally described as *Lithothamnion congregatum* (Foslie 1895a: 142) but subsequently (Foslie 1900i: 13, 1905c: 62) reduced to the rank of form and treated as *Lithothamnion nodulosum* f. *congregatum*. Collections listed in Adey & Lebednik 1967: 77 under species without mention of forma]. **Lectotype: TRH, C7-3062** (see below).

Foslie; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; slides 172-174; [no other collection data]; pfa: Foslie 1895a, pl. 20, figs 1-6, and Printz 1929, pl. 26, figs 10-11, 13; [Note: **Lectotype** of *Lithothamnion congregatum* Foslie. Additional data — Woelkerling 1993: 60, and Woelkerling & Verheij 1995: 42. Collection consists of two boxes placed in one larger box (Woelkerling 1993: 61). Slides 172 and 173 marked '*L. congregatum*'. Slide 174 is marked '*L. congregatum nodulosum*'. Grouped with ten collections of *L. nodulosum* f. *nodulosum* (C7-3052, C7-3063 – C7-3071) under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik (1967: 77) and Woelkerling (1993: 61) record 13 boxes, but only 12 (representing 11 collections) have been found. Additional material with the name '*Lithothamnion nodulosum* f. *congregatum*' and identical locality and date data occurs in ancillary herbarium (Chapter 5). Collection also represented in *Lithothamnion Selecta Exsiccata* (Chapter 6) but with modern locality name (Sør-Trøndelag, Stjørna)]; **TRH C7-3062**.

norvegicum, *Lithothamnion* (f. *nodulosum*). See listing above for **nodulosum, *Lithothamnion***

Inadequately documented collection. The following inadequately documented collection was found in Drawer C7 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one large specimen, one fragment and one annotation slip housed in a brown box. Annotation slip marked '*L. congregatum?*'. Collection not included in Adey & Lebednik 1967]; **TRH C7-3864**.

Case C, Drawer 8

During the present study, Foslie's label for Drawer C8 from the original wooden cabinet that once housed his specimens was found amongst the specimens of *Lithothamnion vardoense*. It now has been placed in an envelope marked 'Label for the original wooden Drawer C8 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

vardoense, *Lithothamnion* [originally described as *Lithothamnion vardoense* (Foslie 190bb: 3), where Foslie retained it in publication. An additional collection of *L. vardoense* is in Drawer B10]. **Lectotype: TRH, C8-3077** (see below).

Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Borgosen; collection depth: 2-3 fathoms; ix.1897; slide 1608; [no other collection data]; pfa: Printz 1929, pl. 32, fig. 1; [Note: collection consists of material in an open quadratic box and of two original round boxes housed in a newer brown box. Open quadratic box contains one specimen (now broken into three pieces), slide 1608 and two annotation slips. One annotation slip has cell measurements and also is marked 'Præp. [= slide] 1608'. Second annotation slip has collection and habitat data and also is marked 'Præp. [= slide] 1608' and '*L. vardoense* og [= and] *L. tophi-forme?*'. Larger round box contains one specimen, some fragments, a loos green tag marked 'Præp. [= slide] 1608' and a note marked '2 delte sp. [= 2-parted sporangia] 120x55'. Lid of larger round box marked 'Præp. [= slide] 1608' and 'Sp. 2 delte [= sporangia 2-parted]'. Smaller round box contains two fragments and is marked '*L. vardoense*' and 'Balstad, 9.1897' and '= præp. [= slide] 1608'. Grouped with C8-3073 and C8-3074 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C8-3072.**

Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Borgosen; [no habitat data]; ix.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 32, figs 2-3, 5-10; [Note: grouped with C8-3072 and C8-3074 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C8-3073.**

[Foslie]; [Norway]; Lofoten, Balstad [now Ballstad], Borgosen; [no habitat data]; ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. vardoense* og [= and] *L. tophi-forme*'. Foslie is presumed to be the collector based on collection information on other boxes in Drawer C8 with the same locality and collection data. Grouped with C8-3072 and C8-3073 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C8-3074.**

Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Borgosen; [no habitat data]; ix.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 32, fig. 4; [Note: box marked 'Konc. (sp. 2 delte) [= conceptacles (sporangia 2-parted)]'. Figure incorrectly recorded on box as being on 'pl. 31'. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C8-3075.**

Foslie; [Norway]; Finnmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; collection depth: ca 15 fathoms; 14.viii.1897; slide 1612; [no other collection data]; pfa: Printz 1929, pl. 32, fig. 11; [Note: collection consists of four specimens (one of which is broken into two parts) in two original round boxes housed in a newer brown box. Large round box marked '*L. vardoense* (og [= and] *L. tophif.?*)' and '(anden halvdel ekspl. mrk. ox [= the second part of the specimen is marked ox])'. Green tag on one specimen marked 'ox'. Green tag on other part of divided specimen marked 'Lith. Mon. [= Printz 1929] pl. 32, fig. 11'. Another specimen in box has green tag marked 'Præp. [= slide] 1612'. One annotation slip in larger round box marked '2 delte sp. [= 2-parted sporangia]'. Another annotation slip with cell measurements marked 'Konc. [= conceptacles] 300-400µ' and '140x60' and 'Ekspl. [= specimen] ox'. Small round box (housed inside the large round box) contains fragments and is marked 'Mjaanes, 14.viii.1897' and '*L. vardoense*' and 'Fig. 8' and 'Sp. konc. [= sporangial conceptacles]'. The specimen shown in Printz 1929, pl. 32, fig. 8, however, is part of C8-3073]; **TRH C8-3076.**

Foslie; [Norway]; Lofoten, Svolvær; collection depth: 1-3 fathoms; 6.ix.1897; slides 1028-1030; [no other collection data]; pfa: Printz 1929, pl. 32, figs 12-13, 15; [Note: **Lectotype** of *Lithothamnion vardoense* Foslie. Additional data — Woelkerling 1993: 233. Lectotype consists of six original boxes with material, all housed in one larger box marked with a lectotype label. The box includes:

one box marked 'Svolvær' that contains one specimen and a note marked '*L. vardoense*' and 'Cyst. koncept. [= cystocarpic conceptacles] 300-400µ'.

- one box that contains one fragment and is marked '*L. vardoense*' and 'Svolvær 6.ix.1897' and 'Cyst. koncept. [= cystocarpic conceptacles]'.
 one box that contains one fragment and is marked '*L. vardoense*' and 'Svolvær 6.ix.1897' and 'Sp. koncept. [= sporangial conceptacles]'.
 one box that contains some small fragments and is marked 'Svolvær' and 'Sp. konc. [= sporangial conceptacles]' and includes a note with drawings that is marked '*L. vardoense*' and 'Konc. [=conceptacles] 200-300µ', and also includes one fragment in a very small box marked '*L. vardoense*' and 'Svolvær, 6.ix.1897' and 'Sp. konc. [= sporangial conceptacles]'.
 one box with two specimens marked with collection information and also with 'Lith. Monogr. pl. 32, fig. 13, 15'.
 one box marked with collection information and also marked 'Lith. Monogr. pl. 32, fig. 12' and 'Præp. [= slides] 1028-1030'. This box includes one specimen and several fragments. Green tag attached to specimen marked 'Lith. Monogr. pl.31, fig. 12'. Box also includes slides 1028-1030 (both marked with locality and collection date), a loose green tag marked 'Præp. [= slides] 1028-1030' and two notes with cell measurements of slides 1028 and 1029.
 Adey & Lebednik 1967: 77 mistakenly record the collection date as '6.viii.1897'; **TRH C8-3077**.
 Foslie; [Norway]; Lofoten, Svolvær; collection depth: 1-3 fathoms; 6.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: Collection consists of a large box with numerous specimens and appears to be a mixture of two species. Two annotation slips in box both marked with collecting data and with '*L. vardoense* og væsentligst [= and mainly] *L. tophiforme*?' and 'Forekom paa 2 forskj. steder if. optegn. [= occurred on two different places pursuant to drawing]'. One slip also marked '*L. vardoense* og væsentligst [= and mainly] *L. tophiforme*?'; **TRH C8-2695**.
 Foslie; [Norway]; Skarsvaag [now Skarsvåg]; collection depth: ca 5 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophif. ell. [= or] vardoense*?' and 'Store sp. konc. [= large sporangial conceptacles]'. Apparently grouped with C8-3079 under one entry in Adey & Lebednik 1967: 77]; **TRH C8-3078**.
 Foslie; [Norway]; Skarsvaag [now Skarsvåg]; collection depth: ca 5 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a wooden cigar box. Annotation slip in box marked 'Indre del fjorden nær s. sted som *L. glac.* [= inner part of the fjord close to same place as *L. glac.*]' and 's. med [= mixed with] *breviaxe* og overg. [= and grading into] *L. vardoense* og eller [= and or] *L. tophif.?*' and 'tildels med [= partly with] *L. flavesc.*'. Apparently grouped with C8-2078 under one entry in Adey & Lebednik 1967: 77]; **TRH C8-3079**.
 Foslie; [Norway?]; [no locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a closed box with three specimens and a packet containing fragments. Annotation slip with collection marked '*L. vardoense*' and 'M. Fosl.'. Collection not included in Adey & Lebednik 1967]; **TRH C8-3080**.
 [Anon.]; [Norway]; Froørerne [now Froan], Prestosundet [the strait near Prestøya]; [no habitat data]; 16.vii.1894; slide 1609; [no other collection data]; [no pfa]; [Note: box marked '*L. vardoense ell. [= or] tophiforme*'. One annotation slip in box marked 'Ligner Balstadf. [= looks like the form from Balstad]'. Another note pertaining to slide 1609 is marked '2 delte sp. [= 2-parted sporangia]']; **TRH C8-3081**.
 [Anon.]; [Norway]; Vardø, opt. ved mudring i havnen [= dredged in the harbour]; [no habitat data]; 1893; slide 1619; [no other collection data]; [no pfa]; [Note: grouped with C8-3083 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5). Material with same collecting information and listing Foslie as collector occurs in *Lithothamnium Selecta Exsiccata* (Chapter 6)]; **TRH C8-3082**.
 [Anon.]; [Norway]; Vardø, opt. ved mudring i havnen [= dredged in the harbour]; [no habitat data]; 1893; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 32, fig. 14; [Note:

annotation slip in box marked 'Delte ekspl. med ar efter tømte konc. (overfladiske) [= divided specimen with scar from empty conceptacles (superficial)]' and 'Fig. [= figure] 14'. Grouped with C8-3082 under one entry in Adey & Lebednik 1967: 77. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5). Material with same collecting information and listing Foslie as collector occurs in *Lithothamnium Selecta Exsiccata* (Chapter 6); **TRH C8-3083**.

[Anon.]; [Norway]; Vardø, opt. mudring havnen [= dredged in the harbour]; [no habitat data]; 1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5). Material with same collecting information and listing Foslie as collector occurs in *Lithothamnium Selecta Exsiccata* (Chapter 6)]; **TRH C8-3084**.

Inadequately documented collection

The following inadequately documented collection was found in Drawer C8 during the present study.

[Anon.]; [Norway]; Vikasund, Frøjen [now Frøya] [but see Note]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection not identified to species or genus. Collection consists of over 100 specimens/fragments housed in an open wooden box. Annotation slip with collection marked 'Ekspl. [= specimens]' and 'Vikasund, Frøjen' and 'bortkastet da ikke sikre 2 delte sp. [= wasted effort since it is uncertain that there are 2-parted sporangia]' and 'Pl. 14'. Note on outside of box is marked 'sorif.' and 'Kistrand 91' and refers to a collection of *L. soriferum* f. *globosa* (C11-3143), and does not appear to pertain to the material in this collection (C8-3865). Collection not included in Adey & Lebednik 1967]; **TRH C8-3865**.

Case C, Drawer 9

During the present study, one note that could not be matched to any collection was found in Drawer C9. The note has been placed in an envelope marked 'Loose note found in Drawer C9'.

corallioides, Lithothamnium (f. saxatilis) [originally described as *Lithothamnium coralloides* f. *saxatilis* (Foslie 1895a: 90), but subsequently (Foslie 1898b: 6) transferred without change in rank into *Lithothamnium norvegicum* as *L. norvegicum* f. *saxatilis*. The following collection was listed under *Lithothamnium tusterense* in Adey & Lebednik 1967: 77 without mention of the forma. Another collection of *L. corallioides* f. *saxatilis* is in Drawer C5 (C5-3018)]. **Lectotype: TRH, C9-3097** (see below).

Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; collection depth: ca 10 fathoms; 1.viii.1894; slides 1-2, 100-101; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 14-17 [as *Lithothamnium coralloides* f. *saxatilis*]; [Note: **Lectotype** of *Lithothamnium corallioides* f. *saxatilis* Foslie. Additional data — Woelkerling 1993: 195. Box marked '*L. tusterense* f.' but slides 100-101 marked '*L. norvegicum* f. *saxatilis*', and slides 1-2 marked '*Lithoth. patulum* n. sp. [= new species]'. '*Lithoth. patulum*' apparently is an unpublished herbarium name. Box also marked 'Sp. 2 delte [= sporangia 2-parted]' and '90-110 (120) x 35-45 (50)'. Grouped with a collection of *L. tusterense* (C9-3088) under one entry in Adey & Lebednik 1967: 77]; **TRH C9-3097**.

tusterense, Lithothamnium [originally described as *Lithothamnium tusterense* (Foslie 1905c: 65), where Foslie retained it in publication]. **Holotype: TRH, C9-3089** (see below).

- Ekman; [Norway]; Kristiansund; [no habitat data]; [no date]; [no slides]; ex. herb. Areschoug [S]; [no pfa]; [Note: box marked '*Lithothamnion fasciculatum* Aresch. = *L. tusterense?*'. Annotation slip in box marked '*L. fascicul.* Aresch. = *L. ungeri*' and 'sporoc. æske [= sporocarpic in box]']; **TRH C9-3085.**
- Foslie; [Norway]; Bergen, Puddefjorden; collection depth: 3-5 fathoms; 25.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]' and faintly marked '*L. tusterense?*']; **TRH C9-3086.**
- Foslie; [Norway]; Kristiansund, Tustern [now Tustna]; collection depth: 3-4 fathoms; 10.viii.1898; slides 309-310, 1644; [no other collection data]; pfa: Printz 1929, pl. 22, figs 6-12; [Note: **Holotype** of *Lithothamnion tusterense* Foslie. Additional data — Woelkerling 1993: 229 and Woelkerling 1998c: 365. Collection consists of material in two original round boxes and a Fuji film box, all housed in a newer brown box. Larger round box marked 'Præp. [= slides] 309-10 af [= of] fig. 6' and '2 delte sp. [= 2-parted sporangia] fig. 9-10'. Two specimens in larger round box have green tags respectively but incorrectly marked 'Pl. 27, fig. 6' and 'Pl. 27, fig. 10'. Correct plate number is '22'. Fuji film box, housed within the larger round box, contains a broken specimen with an attached green tag incorrectly marked 'Lith. Mon. pl. 27, fig. 9'. Correct plate number is '22'. Annotation slip in larger box marked 'Crsund [= Kristiansund], Tusteren' and '(grovere form [= coarser form] *formic. – colic.*)'. Small round box, housed within the larger round box, contains two fragments and is marked 'Tusteren, 10.viii.1898' and 'sp. konc. [= sporangial conceptacles]'. Grouped with C9-3090 under one entry in Adey & Lebednik 1967: 77. Adey & Lebednik 1967: 77 did not flag C9-3089 as type material]; **TRH C9-3089.**
- Foslie; [Norway]; Tustern [now Tustna], Skjælsund, i nærh. af [= in vicinity of] Linvaagen [now Linvågen]; [no habitat data]; 19.vii.1906; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 22, fig. 13; [Note: box marked '(steril [= sterile)]'. Green tag on one specimen in box incorrectly marked 'Pl. 27, fig. 13'. Correct plate number is '22'. Grouped with C9-3089 under one entry in Adey & Lebednik 1967: 77]; **TRH C9-3090.**
- Foslie; [Norway]; Trondheimsfjorden, Frøsetskjær [now Frøsetskjeret], Byberget; collection depth: 5-6 fathoms; 31.v.1894; slide ε; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 2 delte [= sporangia 2-parted] 50-100x60-30'. Green tag on a specimen in box marked 'Præp. [= slide] ε'. Slide ε marked '*L. patulum* f. *typ.*' and '*L. corall. f. saxatile*'. Collection not included in Adey & Lebednik 1967]; **TRH C9-3087.**
- Foslie; [Norway]; Trondheimsfjorden, Røberg [now Raudberget]; collection depth: ca 10 fathoms; 27.vi.1894; slide 102 and slide γ; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 22-23 [as *L. corallioides* f. *saxatilis*]; [Note: box marked '*L. tusterense* (?)' and 'Sp. 2 delte [= sporangia 2-parted]' and 'Præp. γ med sp. [= slide γ with sporangia]'. Slide 102 marked '*L. norvegicum* f. *saxatilis*'. Slide γ marked '*L. patulum* f. *typ.*'. '*L. patulum*' apparently is an unpublished herbarium name. Grouped with lectotype of *Lithothamnion corallioides* f. *saxatilis* (C9-3097) under one entry in Adey & Lebednik 1967: 77]; **TRH C9-3088.**
- Norum; [Norway]; Haugesund, Viprandsund [the strait between Vibrandøya and Hasseløya]; [no habitat data]; 17.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tusterense?*' and 'Største ekspl. paa sten [= largest specimen on stone]' and '2 delte sp. [= 2-parted sporangia]'. Adey & Lebednik 1967: 77 mistakenly list collector as 'Norman']; **TRH C9-3091.**
- [Anon.]; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund, Gitterøundet [now Gjitterøysundet (the strait between Gitterøya and Ulvøya)]; collection depth: ca 5 fathoms; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. tusterense?*' and 'Sp. 2 delte [= sporangia 2-parted] 100x40' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C9-3092.**
- [Anon.]; [Norway]; Lofoten, Balstad [now Ballstad], omtr. midtveis mell. bryggen og [= nearly midway between the wharf and] Leiskjæret [now Leiskjeret, near Gjermesøya]; collection depth: ca 15 fathoms; ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: anno-

tation slip with collection and habitat data also marked '*L. ung. f.? = L. tusterense?*'; **TRH C9-3093.**

[Anon.]; [Norway]; Rognsund, Mjaanes [now Rognsundet, Mjånes]; collection depth: 8-10 fathoms; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked '8-10 fathoms' and '*L. tusterense?*'; **TRH C9-3094.**

[Anon.]; [Norway]; Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; slide 104; [no other collection data]; pfa: Foslie 1895a, pl. 16, fig. 13 [as *Lithothamnion coralloides* f. *saxatilis*]; [Note: box marked '*L. tusterense?*' and '~~*L. norvegicum* f. *saxatilis*~~'. Slide marked '*L. norvegicum* f. *saxatilis*'. Adey & Lebednik 1967: 77 omit mention of slide]; **TRH C9-3095.**

[Anon.]; [Norway]; Vernes, Hundnes, Kongensvold [now Kongensvoll]; collection depth: 10-12 fathoms; 19.vii.1894; slides a, c; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. granii* (?) *tusterense* (?)' and 'Præp. a. c. med sp. [= slides a and c with sporangia]'. Slide 'a' marked '*L. ramulosum* f. *curvirostra*'. Slide c marked '*L. ramulosum*'; **TRH C9-3096.**

Inadequately documented collections

The following four inadequately documented collections were found in Drawer C9 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two specimens in an open quadratic box housed within a brown box. Collection not included in Adey & Lebednik 1967]; **TRH C9-3866.**

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of two specimens, one fragment and one annotation slip in an open quadratic box housed within a brown box. Annotation slip marked 'Sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C9-3867.**

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen and one annotation slip in an open quadratic box housed within a brown box. Annotation slip marked 'Sp. konc. til fotogr. udtat herfra [= sporangial conceptacles for photography taken out from here]'. Collection not included in Adey & Lebednik 1967]; **TRH C9-3868.**

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen and one annotation slip in an open quadratic box housed within a brown box. Annotation slip with two drawings/sketches and a couple of measurements also marked 'Konc. [= conceptacles] 300-440µ'. Collection not included in Adey & Lebednik 1967]; **TRH C9-3869.**

Case C, Drawer 10

battersii, *Lithothamnion* [originally described as *Lithothamnion battersii* (Foslie 1895b: 1). Subsequently listed by Foslie (Foslie 1905c: 59) as a heterotypic synonym of *Lithothamnion granii* f. *reducta*, but Foslie (1905c: 60) was uncertain whether *L. battersii* was referable to *L. granii* or to *L. colliculosum* at species level. Chamberlain & Irvine 1994b: 183, 188 list *Lithothamnion battersii* as a heterotypic synonym of *L. glaciale*. Collection listed under *Lithothamnion granii* in Adey & Lebednik 1967: 78 but flagged as the type of *L. battersii*]. **Holotype:** TRH, C10-3098 (see below).

Batters; [United Kingdom]; [Scotland], Cumbrae; collection depth: 7 fathoms; viii. 1891; slide 129 and one unnumbered slide; Batters collection number 1; pfa: Foslie 1895b, pl. 1 [un-numbered], figs 1-5; [Note: **Holotype** of *Lithothamnion battersii* Foslie. Additional data — Woelkerling 1993: 38. Box marked '*L. battersii* = *L. granii* = *L. collic.*?'. One annotation slip in box marked '*Lithothamnion nov. sp.*?'. Another slip marked '2-delte sp. i snittet [= 2-parted sporangia in the cut]'. Flagged as the type of *L. battersii* but listed under *L. granii* in Adey & Lebednik 1967: 78, who mistakenly place the collection locality in the 'Republic of Ireland' and list the collector as 'Batlers']; **TRH C10-3098**.

flabellatum*, *Lithothamnion* (f. *granii*)**. See listing below for ***granii*, *Lithothamnion. Lectotype is C10-3114

granii*, *Lithothamnion [originally described as *Lithothamnion flabellatum* f. *granii* (Foslie 1895a: 98). Subsequently (Foslie 1900i: 11) raised to the rank of species, namely *Lithothamnion granii*, then (Foslie 1905c: 10) reduced again to the rank of forma and treated as *Lithothamnion glaciale* f. *granii* (not *L. flabellatum* f. *granii*), and then later in the same paper (Foslie 1905c: 59) again raised to species rank as *Lithothamnion granii*. Chamberlain & Irvine 1994b: 183, 188 list *Lithothamnion granii* as a heterotypic synonym of *L. glaciale*]. **Lectotype: TRH, C10-3114** (see below).

Arwidsson; [Sweden]; Bohuslen, Ellskär udenfor [= outside] Gullmarfjorden; collection depth: 14-20 metres; 16.vi.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (vel neppe [= well barely] *L. granii*?)']; **TRH C10-3099**.

Arwidsson; [Sweden]; Bohuslen indenfor [= within] Gullmarfjord, Skatholmen i [= at] Strøm-marne; collection depth: ca 8 metres; 10.vi.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 2 delte [= sporangia 2-parted]']; **TRH C10-3100**.

Arwidsson; [Sweden]; Bohuslen, Gullmarfjorden, Skatholmen i [= in] Strøm-marne; collection depth: 4-6 metres; 4.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'sten – skalgrus [= stone – shell gravel]' and 'Skikad till M. Foslie [= sent to M. Foslie]']; **TRH C10-3101**.

Arwidsson; [Sweden]; Bohuslen nära [= near] Gullmarfjorden, Skatholmen, Strøm-marne; collection depth: ca 7 metres; 15.vii.1901 [but see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* f. *pusilla granii*' and '2 delte sp. [= 2-parted sporangia]'. One annotation slip in box marked '1 ekspl. overført til *collicul.* og fotogr., pl., fig. 12 [= one specimen transferred to *collicul.* and photographed, pl., fig. 12]'. See B20-2671 for relevant collection of *L. colliculosum*. Two other annotation slips with collection information occur, but collection date on one is 21.vii.1901 while on the other it is 15.vii.1901]; **TRH C10-3102**.

Batters; [United Kingdom]; [Scotland], Cumbrae; [no habitat data]; viii. 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2. *Lithothamnion* – ?' and '*L. collicul. granii*?'. Annotation slip in box marked '2'. Collection not included in Adey & Lebednik 1967]; **TRH C10-3103**.

Batters; [United Kingdom]; Scotland, Cumbrae; collection depth: 5 fathoms; viii. 1891; two unnumbered slides; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. colliculosum*' and '*granii*'. One specimen in box wrapped in a piece of paper marked 'Ekspl. x sp. konc. som *L. coll. f. rosea* [= specimen x sporangial conceptacles as *L. coll. f. rosea*]. One slide marked 'Ekspl. [= specimen] x' and 'f. *rosea*' and '*L. colliculosum* Batt.?' and 'Cumbrae, viii.1891'. Other slide marked 'Ekspl. [= specimen] xx' and '*L. collicul. forma*' and '*L. collicul. Batt.*?' and 'Cumbrae, viii.1891'. Collection not included in Adey & Lebednik 1967]; **TRH C10-3104**.

Foslie; [Norway]; Dragøvik [near Dragøya], syd for [= south of] Haugesund; collection depth: ca 6 fathoms; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?) *granii*?']; **TRH C10-3110**.

- Foslie; [Norway]; Drøbak; collection depth: 3-5 fathoms; 10.viii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 18, figs 10-11; [Note: grouped with C10-3106 and the neotype of *L. granii* f. *reducta* (C10-3138) under one entry in Adey & Lebednik 1967: 78. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (Chapter 6)]; **TRH C10-3105.**
- Foslie; [Norway]; Drøbak; collection depth: 3-5 fathoms; 10.viii.1902; slide 1639; [no other collection data]; [no pfa]; [Note: collection includes 20 stones in a large original quadratric box. Green tag on one specimen marked '11'. Large original box marked '(1 ekspl. *L. laeve* overv. af *L. granii* udt. [= one specimen of *L. laeve* overgrown of *L. granii* taken out)'. See B4-1791 for relevant collection of *Lithothamnium laeve*. Small open quadratric box inside large box has one specimen and an annotation slip marked 'Drøbak, 10.viii.1902' and 'Præp. [= slide] 1639'. Grouped with C10-3015 and the neotype of *L. granii* f. *reducta* (C10-338) under one entry in Adey & Lebednik 1967: 78. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (Chapter 6)]; **TRH C10-3106.**
- Foslie; [Norway]; Drøbak; [no habitat data]; 10.viii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: collection rediscovered during the present study. Green tag attached to one of the three specimens in the collection marked '19' (significance of number uncertain). Collection not included in Adey & Lebednik 1967. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (Chapter 6)]; **TRH C10-3107.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], tvers af fyrlygten [= across from the beacon light]; collection depth: 7-10 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* f.' and 'Koncept. [= conceptacles]'. Adey & Lebednik 1967: 78 mistakenly give the locality as Frederikshavn, Denmark]; **TRH C10-3111.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], indenfor [= within] Rakkeboerne [now Rakkeboerne]; 'opk. fjæren [= washed ashore the tidal zone]'; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. glaciale* f.'. Collection not included in Adey & Lebednik 1967]; **TRH C10-3112.**
- Foslie; [Norway]; Haugesund, Salhus; collection depth: ca 8-10 fathoms, 'sterk strøm [= strong current]'; 19.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?) delvis [= in part]' and '*granii*?'. Annotation slip in box with drawings is marked 'Ekspl. mk. x (øvrige ikke fundet sp.) [= specimen marked x (no sporangia found in the remainder)'. One specimen in box marked 'x'. Another annotation slip marked 'Konc. 2 største ekspl. og ekspl. mk. x [= conceptacles two largest specimens and specimen marked x]']; **TRH C10-3109.**
- Foslie; [Norway]; Holmestrand, mellem [= between] Kostene Bjerkøskjær – Langgrunden [now Bjerkøyskjæret - Langøygrunden]; collection depth: 4-8 fathoms; 13.viii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 78 mistakenly list locality as 'Halestrand']; **TRH C10-3108.**
- Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; slide 177; [no other collection data]; pfa: Foslie 1895a, pl. 17, fig. 3 and pl. 22, fig. 1, and Printz 1929, pl. 18, fig. 15; [Note: **Lectotype** of *Lithothamnium flabellatum* f. *granii* Foslie. Additional data — Woelkerling 1993: 111, and Woelkerling & Verheij 1995: 56, and Woelkerling 1998c: 344. Collection consists of contents in three original boxes (one larger, two smaller) housed in a newer brown box. Large round box marked with collection and pfa data and also marked 'Sp. til fotogr. [= sporangia for photography]'. Small round boxes marked '*L. granii*' and 'Drøbak, 12.vii.1893' and 'Sp. konc. [= sporangial conceptacles]'. One small box also marked 'pl. 18, fig. 15'. Grouped with C10-3113 under one entry in Adey & Lebednik 1967: 78]; **TRH C10-3114.**
- Gran; [Norway]; Drøbak; collection depth: 5-6 fathoms; 12.vii.1893; slide 1640; [no other collection data]; [no pfa]; [Note: collection housed directly in a newer brown box with original box lid. Remainder of original box broken and discarded. Green tag on one specimen marked '19' (significance of number uncertain). Green tag on second specimen marked

- 'Sp. konc. til fotogr. tatt herfra [= sporangial conceptacles for photography taken from here]'. Collection includes fragments in a small round box marked 'Præp. [= slide] 1640'. Adey & Lebednik 1967: 78 omit mention of the collection date and depth]; **TRH C10-3115.**
- Gran; [Norway]; Drøbak; collection depth: 5-6 fathoms; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C10-3116.**
- Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; slides 178-179, 1645 and two unnumbered slides; [no other collection data]; pfa: Foslie 1895a, pl. 17, figs 2, 4-7, and Printz 1929, pl. 18, fig. 12, 16-17; [Note: box marked '*Lithoth. flabellatum* f. *granii*'. Collection not included in Adey & Lebednik 1967]; **TRH C10-3117.**
- Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C10-3118.**
- Gran; [Norway]; Drøbak; [no habitat data]; i.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes a small box dated '4.i.1896' and marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C10-3114 under one entry in Adey & Lebednik 1967: 78]; **TRH C10-3113.**
- Hanna; [United Kingdom]; [Northern] Ireland, County Antrim, Larne near Belfast; [no habitat data]; viii.-ix.1898; slides 296-297; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum granii* (?)' and 'Sp. 2 delte [= sporangia 2-parted]'. The epithet '*colliculosum*' is only faintly crossed out]; **TRH C10-3119.**
- Johnson, T. & Foslie; Irland [= Republic of Ireland]; Dalkey Sound; [no habitat data]; 13.iv.1899; slide 294; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?) *granii*' (with another unreadable species name crossed out) and 'Sp. 2 delt [= sporangia 2-parted] ca. 100x40'. Adey & Lebednik 1967: 78 omit mention of 'Johnson' as a collector]; **TRH C10-3120.**
- Kylin; [Sweden]; Bohuslän, Koster; [no habitat data]; 14.vii.1905; [no slides]; specimen numbered 27; [no pfa]; [Note: collection originally housed in the same box as material from Vaderöarne collected on 8.vi.1905 (C10-3121) but it was removed from that box during the present study and now is treated as a distinct collection because it comes from a different locality and has a different collection date. Original box lid retained with C10-3121 and also marked '*L. granii* (+ *L. sonderi* + liden [= small] *Phym. laevig.*.)']; **TRH C10-3879.**
- Kylin; [Sweden]; Bohuslän, Vaderöarne; [no habitat data]; 8.vi.1905; [no slides]; specimen numbered 20; [no pfa]; [Note: original box also housed specimens now constituting collections C10-3879 and C10-3873. Specimens in these two collections were removed from C10-3121 during the present study because the collection date or the locality and collection date differed. Original box lid retained with C10-3121 and also marked '*L. granii* (+ *L. sonderi* + liden [= small] *Phym. laevig.*.)']; **TRH C10-3121.**
- Kylin; [Sweden]; Bohuslän, Vaderöarne; [no habitat data]; 27.vi.1905; [no slides]; specimen numbered 23; [no pfa]; [Note: collection originally housed in the same box as material from Vaderöarne collected on 8.vi.1905 (C10-3121) but removed from that box during the present study and now is treated as a distinct collection because the collection date is different. Original box lid retained with C10-3121 and also marked '*L. granii* (+ *L. sonderi* + liden [= small] *Phym. laevig.*.)']; **TRH C10-3873.**
- Lönnberg; [Sweden]; Skaane, Skelderviken; [no habitat data]; 1902; slide 929; [no other collection data]; [no pfa]; [Note: box marked 'Præp. [= slide] 929 af ekspl. paa balan. [= from specimen on *Balanus*]']; **TRH C10-3122.**
- Norum; [Norway]; Haugesund; collection depth: ca 10 fathoms; 1.v.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?) *granii*?'. Adey & Lebednik 1967: 78 mistakenly list collector as 'Norman']; **TRH C10-3123.**
- Norum; [Norway]; Røvær, Sandsund; collection depth: 2-3 fathoms; 1.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. colliculosum* (?) *granii*?'. Adey & Lebednik 1967: 78 mistakenly list collector as 'Norman']; **TRH C10-3124.**

- Øyen; [Norway]; Hvaler, Snekkota; [no habitat data]; 1907; slide 1587; [no other collection data]; [no pfa]; [Note: box marked '*Lith. granii* Fosl. (?)' and '(s. m. [= mixed with] *L. sonderi* + *Phym. polym.*)'. Adey & Lebednik 1967: 78 list collector as Quen]; **TRH C10-3125.**
- Rosenvinge; [Denmark]; østl. [= Eastern] Kattegat, Fladen; collection depth: 13 fathoms; 12.v.1893; slide 128; [ex] Bot. Mus. Kbhavn [C], Rosenvinge collection number 3387; pfa: Printz 1929, pl. 18, fig. 13; [Note: box marked '*L. glaciale* f. *granii* med overg. til [= grading into] f. *reducta*' and '2 større ekspl. 2 delte sp. [= two larger specimens 2-parted sporangia] 80-110x30-60µ'. Slide marked 'delvis [= in part] 3387'. Annotation slip in box marked 'Perith. cell. ligner *L. granii* [= perithallial cells look like *L. granii*']]; **TRH C10-3126.**
- [Rosenvinge]; [Denmark]; østl. [= Eastern] Kattegat, Lille Middelgrund; collection depth: 9-10 fathoms; 10.v.1893; [no slides]; [ex] Bot. Mus. Kbhavn. [C], Rosenvinge collection number 3381 from locality IK (see Rosenvinge 1909: 32); [no pfa]; [Note: box marked '*L. glaciale* f.?''. Annotation slip in box marked 'Nærmer sig delvis *L. interm* f. *apiculata* men finder ej sp. [= grading partly into *L. interm* f. *apiculata* but found no sporangia]'. Collection filed by Foslie with other collections of '*granii*' but the epithet does not appear on box. Foslie presumably considered the material to be *Lithothamnion glaciale* f. *granii*]; **TRH C10-3130.**
- Rosenvinge; [Denmark]; østl. [= Eastern] Kattegat, øst for [= east of] Lille Middelgrund; collection depth: 10.5-15 fathoms; 10.v.1893; [no slides]; [ex] Bot. Mus. Kbhavn [C], Rosenvinge collection number 3375 from locality IK (see Rosenvinge 1909: 32); pfa: Printz 1929, pl. 18, fig. 14; [Note: box marked '*L. glaciale* f. *granii* med overg. til [= grading into] f. *reducta*' and 'Sp. 2 delte [= sporangia 2-parted] 100x60µ'. Collection not included in Adey & Lebednik 1967]; **TRH C10-3127.**
- Rosenvinge; [Denmark]; sydlige [= Southern] Kattegat, 56° 11.5' N, 12° 6' W; collection depth: 12 fathoms; 8.v.1893; [no slides]; [ex] Bot. Mus. Kbhavn [C], Rosenvinge collection number 3316; [no pfa]; [Note: box marked '*L. glaciale* f. *granii*' and 'Sp. 2 delte [= sporangia 2-parted] 110x50µ']; **TRH C10-3128.**
- Rosenvinge; [Denmark]; sydl. [= Southern] Kattegat, Store Middelgrund; collection depth: 8 ¾ fathoms; 12.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(modt. 3.08 [= received March 1908])'. Annotation slip in box marked 'Nærmer sig delvis [= grading partly into] *L. collicul.*']; **TRH C10-3129.**
- Schreiner; [Norway]; Kristiania [now Oslo], Nesodden; [no habitat data]; 17.xii.1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 17, figs 1, 13; [no notes]; **TRH C10-3131.**
- [Anon.]; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund; collection depth: 3-5 fathoms, 'ydre side [= outer side]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked '*L. granii* (?)']; **TRH C10-3132.**
- [Anon.]; [Norway]; Hvaløerne [now Hvaler], Galtene [now Galtane] vestenfor [= west of] Skjærhalden [now Skjærhollen]; collection depth: 5-8 fathoms; 21.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box has no species name on it, but was filed with other collections of *L. granii*, presumably by Foslie]; **TRH C10-3133.**
- [Anon.]; [Norway]; Langesund, Gjeterøsundet [the strait near Geiterøya]; collection depth: ca 4 fathoms; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. colliculosum granii?*' (og [= and] *L. sonderi*)'. The epithet '*colliculosum*' is only faintly crossed out]; **TRH C10-3134.**
- [Anon.]; Irland [= Republic of Ireland]; Dalkey Sound; [no habitat data]; ix.1896; [no slides]; [ex] Science & Art Mus. [Dublin] [DBN], number 31 'delvis [= in part]'; [no pfa]; [Note: collection housed directly in a newer brown box. Original box lid marked '*L. colliculosum* (?) *granii?*'. Remainder of original box broken and discarded. Annotation slip with collection marked 'Finder ej sp. [= no sporangia found]' and 'ii.1905'. Grouped with C10-3136 under one entry in Adey & Lebednik 1967: 78]; **TRH C10-3135.**
- [Anon.]; Irland [= Republic of Ireland]; Dalkey Sound; [no habitat data]; ix.1896; [no slides]; [ex] Science & Art Mus. Dublin [DBN], number 31, '(2^{den} sendelse [= the second sending])'; [no pfa]; [Note: box marked '*L. colliculosum* (?) *granii?*' and 'delvis [= in part] *sonderi?*' and 'sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]' and 'cfr. [= cf.]

frutic.. Grouped with C10-3135 under one entry in Adey & Lebednik 1967: 78]; **TRH C10-3136**.

granii, Lithothamnion (f. reducta) [originally described as *Lithothamnion granii* f. *reducta* (Foslie 1905c: 59), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 78 under species without mention of forma]. **Neotype:** **TRH**, C10-3138 (see below).

Børgesen; [Denmark]; Kattegat, Store Middelgrund; collection depth: 16 fathoms; 30.iv.1897; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. glaciale* nærmest [= nearest to] f. *reducta*' and 'Konc. [= conceptacles]'. Annotation slip in box marked '2 delte sp. [= 2-parted sporangia]']; **TRH C10-3137**.

Foslie; [Norway]; Drøbak; collection depth: 3-5 fathoms; 10.viii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: **Neotype** of *Lithothamnion granii* f. *reducta* Foslie. Additional data — Woelkerling 1993: 187. Box marked '*L. granii* f. *reducta* (m. nær [= very close to] *L. tusterense!*)' and very faintly marked '2 delte sp. [= 2-parted sporangia]'. Grouped with two collections of *L. granii* f. *granii* (C10-3105, C10-3106) under one entry in Adey & Lebednik 1967: 78]; **TRH C10-3138**.

Foslie; [Norway]; Kristianiafjorden [now Oslofjorden], Langøgrunden [now Langgrunnen] mellem [= between] Hurumlandet og [= and] Mølen; collection depth: 6-10 fathoms; 13.viii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. granii* f. *reducta* delvis [= in part]']; **TRH C10-3139**.

Foslie; [Norway]; Kristianiafjorden [now Oslofjorden], Langøgrunden [now Langgrunnen] mellem [= between] Hurumlandet og [= and] Mølen; collection depth: 6-10 fathoms; 13.viii.1906; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 18, figs 18-22; [Note: collection not included in Adey & Lebednik 1967]; **TRH C10-3140**.

Knutsen; [Norway]; Langegrund [now Langøygrunnen] ved [= near] Holmestrand; [no habitat data]; ix.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'og et par [= and a couple of] *L. norvegicum?*' and 'ar efter tømte konc. [= scar from empty conceptacles]']; **TRH C10-3141**.

Case C, Drawer 11

divergens, Lithothamnion. See listing below for ***tophiforme, Lithothamnion (f. divergens)***

flabellatum, Lithothamnion. See listing below for ***tophiforme, Lithothamnion (f. flabellata)***

soriferum, Lithothamnion (f. divaricata). See listing below for ***tophiforme, Lithothamnion (f. divaricata)***

soriferum, Lithothamnion (f. globosa) [originally described as *Lithothamnion soriferum* f. *globosa* (Foslie 1891a: 41), then (Foslie 1895a: 147) transferred without change in rank into *Lithothamnion tophiforme* as *L. tophiforme* f. *globosa*, and then (Foslie 1905c: 49) transferred back into *L. soriferum* as *L. soriferum* f. *globosa*. Collections listed in Adey & Lebednik 1967:78 under *Lithothamnion tophiforme* without mention of forma]. **Lectotype:** **TRH**, C11-3142 (see below).

Foslie; [Norway]; [Finnmark], Honningsvaag [now Honningsvåg]; collection depth: 4-8 fathoms; 20.vi.1882; [no slides]; [no other collection data]; [no pfa]; [Note: **Lectotype** of

Lithothamnion soriferum f. *globosa* Foslie. Additional data — Woelkerling 1993: 107. Box marked '*L. soriferum* det. Kjellman = *L. tophiforme*' and 'Sp. 2 delte [= sporangia 2-parted]'. Annotation slip in box marked 'Originekspl., Contrib. II [= original specimens, Contribution II]'. 'Contrib. II' is Foslie 1891a, in which the lectotype specimens are illustrated on pl. 3, fig 3 (the two left-hand specimens). the third specimen from the left is in C13-3185, and that box is only labelled *Lithothamnion soriferum*. Collection probably grouped with C11-3152 under one entry in Adey & Lebednik 1967: 78, who, however, do not mention two boxes]; **TRH C11-3142.**

Foslie; [Norway]; [Finnmark], Kistrand; [no habitat data]; 11.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: original box marked '*L. tophiforme* f. *globosa* and sp. cyst. & anth. konc. [= sporangial cystocarpic & antheridial conceptacles]' and 'Sp. 2 delte [= sporangia 2-parted]'. Green tag on one specimen in brown box marked '26' (significance of number uncertain). Collection includes two smaller boxes rediscovered during the present study. One smaller box (with one fragment) marked 'Kistrand, 11.viii.1891' and '*L. tophiforme*' and 'Sp. konc. [= sporangial conceptacles]'. Second smaller box (with one fragment) marked 'Kistrand, 11.viii.1891' and '*L. tophiforme*' and 'Cyst. & anth. konc. [= cystocarpic & antheridial conceptacles]'. Adey & Lebednik 1967: 78 omit mention of collector. Collection also represented in *Lithothamnion Selecta Exsiccata* (Chapter 6)]; **TRH C11-3143.**

tophiforme, Lithothamnion [first illustrated (Esper 1789: *Millepora* Taf. XV) and then (Esper 1790: 221) effectively and validly published as *Millepora polymorpha* var. *tophiformis*. Subsequently (Unger 1858: 21) raised to the rank of species and transferred into *Lithothamnion* as *Lithothamnion tophiforme* and retained under that name by Foslie in publication. Additional collections are in Drawer C12]. **Neotype:** TRH, C12-3179 (in Drawer C12).

Dahl [probably O.C. Dahl]; [Norway]; Vardø; [no habitat data]; 1888; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme* (?)' and 'steril [= sterile]']; **TRH C11-3144.**

Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 10 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme* (?) og [= and] *L. tophiforme* + *L. glaciale* sammenv.? [= coalesced?]' and 'Obs. under *L. glaciale* hvor nærst. ekspl. [= observed under *L. glaciale* where specimen is close]'. Annotation slip in box marked 'Flerporede konc. [= several-pored conceptacles]'. Adey & Lebednik 1967: 78 mistakenly associate slides 80 & 81 (see C11-3160) with this collection]; **TRH C11-3145.**

Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: ca 15 [fathoms?]; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Delvis konc. [= conceptacles in part]'. Collection depth unit of measure not stated on box but presumed to be the same as C11-3147. Probably grouped with C11-3147 under one entry in Adey & Lebednik 1967: 78, who, however, do not indicate that two boxes occur]; **TRH C11-3146.**

Foslie; [Norway]; Altenfjord, Korsnes [now Altafjorden, Storekorsnes]; [no habitat data]; 10.viii.1897; [no slides]; collection depth: ca 15 fathoms; [no pfa]; [Note: box marked 'tildels med [= partly with] *L. flavescens*'. Green tag on one specimen marked 'x' and 'Sp. 2 delte [= sporangia 2-parted]'. Probably grouped with C11-3146 under one entry in Adey & Lebednik 1967: 78, who, however, do not indicate that two boxes occur]; **TRH C11-3147.**

Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: ca 15 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Unge cyst. konc. [= young cystocarpic conceptacles]'. Grouped with two other collections of *L. tophiforme* (C11-3149, C11-3150) and a collection of *L. tophiforme* f. *flabellata* (C11-3170) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3148.**

- Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: ca 10 fathoms, 'ngl. maaske dybere [= some maybe deeper]'; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme* (?)' and '(Jfr. [= cf.] *L. tusterense?* fra [= from] Mjaanes)'. Green tag on one specimen marked 'x' and 'Sp. 2 delte [= sporangia 2-parted]'. Grouped with two other collections of *L. tophiforme* (C11-3148, C11-3150) and a collection of *L. tophiforme* f. *flabellata* (C11-3170) under one entry in Adey & Lebednik 1967: 78; **TRH C11-3149.**
- Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: ca 15 fathoms; 18.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]'. Grouped with two other collections of *L. tophiforme* (C11-3148, C11-3149) and a collection of *L. tophiforme* f. *flabellata* (C11-3170) under one entry in Adey & Lebednik 1967: 78; **TRH C11-3150.**
- Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: 10-15 fathoms; 10.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 20, figs 12-15; [Note: collection not included in Adey & Lebednik 1967]; **TRH C11-3151.**
- Foslie; [Norway]; Finmarken, Honningsvaag [now Finnmark, Honningsvåg]; collection depth: 4-8 fathoms; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme* (?)' and 'Steril [= sterile]'. Probably grouped with the lectotype of *Lithothamnion soriferum* f. *globosa* Foslie (C11-3142) under one entry in Adey & Lebednik 1967: 78, who, however, do not mention two boxes]; **TRH C11-3152.**
- Foslie; [Norway]; Finmarken, Kaafjord [now Finnmark, Kåfjord]; 'opk. fj. [= washed ashore the tidal zone]'; 27.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme?*' and 'Steril [= sterile]']; **TRH C11-3153.**
- Foslie; [Norway]; [Finnmark], Kistrand; [no habitat data]; 11.viii.1891; slide 1607; [no other collection data]; pfa: Printz 1929, pl. 20, figs 1-3, 16; [Note: collection includes one larger original round box and two smaller original round boxes all housed in a brown box. One smaller box marked 'Sp. konc. fotogr. [= sporangial conceptacles photographed]' and '2 delt sp. [= 2-parted sporangia]' and the other marked 'Analyse nr. 8' and 'Præp. [= slide] 1607']; **TRH C11-3157.**
- Foslie; [Norway]; [Finnmark], Skarsvaag [now Skarsvåg], inderst havnen [= the inner harbour]; collection depth: ca 5 fathoms; 20.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 20, fig. 4; [Note: collection includes several specimens in a round box marked with pfa information and two smaller round boxes. One smaller round box contains specimen depicted in Printz 1929, pl. 20, fig. 4. Second small round box contains fragments and an annotation slip marked '2 delte sp. [= 2-parted sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH C11-3154.**
- Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg], inderst havnen [= the inner harbour]; collection depth: ca 5 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C11-3155.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; [no habitat data]; 1882 and 1887; [no slides]; [no other collection data]; [no pfa]; [Note: green tag on one specimen in box marked 'o' and 'Sp. 2 delte [= sporangia 2-parted]']; **TRH C11-3156.**
- Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; slides 80-81; [no other collection data]; pfa: Foslie 1895a, pl. 15, fig. 16; [Note: box marked 'ung [= young] *L. tophiforme?*'. Green tag on one specimen marked 'Præp. [= slides] 80-81' and pfa information marked on slides. Grouped together with (C11-3158, C11-3159) under one entry in Adey & Lebednik 1967: 78, who mistakenly associate the slides with a 21.viii.1897 Foslie collection from Altenfjord, Bekkarfjord (C11-3145)]; **TRH C11-3160.**
- Foslie; [Norway]; Lyngø [now Lyngøya] ved [= near] Tromsø; collection depth: 5-6 fathoms; 15.vi.1892; [no slides]; [no other collection data]; [no pfa]; [Note: green tag on one specimen in box marked 'x' and 'Sp. 2 delte [= sporangia 2-parted]']; **TRH C11-3166.**
- Foslie; [Norway]; Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Udt. fotogr. [= taken out for photography]' and 'Cyst. konc. [= cystocarpic conceptacles]'. Collection includes one fragment in a

small box (rediscovered during the present study) marked 'cyst. konc. [= cystocarpic conceptacles] 600-700µ'. Grouped with C11-3159 and C11-3160 under one entry in Adey & Lebednik 1967: 78. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5); **TRH C11-3158.**

Foslie; [Norway]; Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]' and 'Dubl. i gangsk. [= duplicates in corridor cabinet]'. Green tags on two specimens marked 'Cyst. konc. [= cystocarpic conceptacles]'. Green tags on two other specimens marked 'Sp. todelte [= sporangia two-parted]'. Grouped with C11-3158 and C11-3160 under one entry in Adey & Lebednik 1967: 78. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5); **TRH C11-3159.**

Foslie; [Norway]; Tromsø; [no habitat data]; 23.ix.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme* (?)' and 'Steril [= sterile]'. Grouped with four other collections of *L. tophiforme* (C11-3161, C11-3163, C11-3164, C11-3165) and one collection of *L. tophiforme* f. *divergens* (C11-3168) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3162.**

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 20, fig. 10; [Note: box marked 'Sp. konc. fotogr. i papir [= sporangial conceptacles in paper photographed]'. Annotation slip in box marked 'Sp. konc. til fotogr. udat herfra (ekspl. i papir) [= sporangial conceptacles for photography taken out from here (specimen in paper)]', but no specimen in box is wrapped in paper. Unattached green tag marked 'Lith. Mon. pl. 20, fig. 10' present, but none of the specimens in the box match Printz 1929 pl. 20 fig. 10. Collection includes one fragment in a small box marked with name, locality and date and with 'Sp. konc. [= sporangial conceptacles]'. Grouped with four other collections of *L. tophiforme* (C11-3161, C11-3162, C11-3164, C11-3165) and one collection of *L. tophiforme* f. *divergens* (C11-3168) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3163.**

Foslie; [Norway]; Tromsø, Lanes; collection depth: ca 5 fathoms; 30.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 20, fig. 6; [Note: grouped with four other collections of *L. tophiforme* (C11-3161, C11-3162, C11-3163, C11-3165) and one collection of *L. tophiforme* f. *divergens* (C11-3168) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3164.**

Foslie; [Norway]; Tromsø, Lanes; collection depth: ca 5 fathoms; 30.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(tildels med *L. flavescens* som udt. [= partly with *L. flavescens* which is taken out])'. One annotation slip in box marked '*L. toph.* & med ung [= with young] *flex.*'. Another slip marked 'Unders. flere ekspl. alle med todelte sp. [= examined several specimens, all with 2-parted sporangia]'. Grouped with four other collections of *L. tophiforme* (C11-3161, C11-3162, C11-3163, C11-3164) and one collection of *L. tophiforme* f. *divergens* (C11-3168) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3165.**

tophiforme, Lithothamnion (f. divaricata) [originally described as *Lithothamnion soriferum* f. *divaricata* (Foslie 1891a: 41), then treated by Foslie (1895a: 147, 148) as a heterotypic synonym of *Lithothamnion tophiforme* (f. *tophiforme*) but later (Foslie 1908d: 15) recognized as a distinct forma of *Lithothamnion tophiforme*, namely *L. tophiforme* f. *divaricata*. Collection listed in Adey & Lebednik 1967: 78 under *Lithothamnion tophiforme* without mention of forma]. **Lectotype:** TRH, C11-3161 (see below).

Foslie; [Norway]; Tromsø; [no habitat data]; 5.viii.1882; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 20, fig. 9; [Note: **Lectotype** of *Lithothamnion soriferum* f. *divaricata* Foslie. Additional data — Woelkerling 1993: 79. Green tag on one specimen in box marked 'Lith. Mon. pl. 20, f. 9'. Another specimen packed in paper with an annotation slip marked 'Specimen matches Foslie 1891a pl. 3, fig. 2, lower left'. Grouped with four other

collections of *L. tophiforme* (C11-3162, C11-3163, C11-3164, C11-3165) and one collection of *L. tophiforme* f. *divergens* (C11-3168) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3161**.

tophiforme, Lithothamnion (f. divergens) [originally described as *Lithophyllum divergens* (Foslie 1895a: 96) but subsequently (Foslie 1900i: 11) reduced to the rank of form and treated as *Lithothamnion ungeri* f. *divergens* and then (Foslie 1905c: 51) transferred without change in rank into *Lithothamnion tophiforme* as *L. tophiforme* f. *divergens*. Collections listed in Adey & Lebednik 1967: 78 under *Lithothamnion tophiforme* without mention of forma]. **Holotype: TRH, C11-3167** (see below).

Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; slides 92-93 and one slide marked 'xxx' and one unnumbered slide; [no other collection data]; pfa: Foslie 1895a, pl. 16, figs 43-50, and Printz 1929, pl. 20, figs 7-8; [Note: **Holotype** of *Lithothamnion divergens* Foslie. Additional data — Woelkerling 1993: 79-80, and Woelkerling & Verheij 1995: 50, and Woelkerling 1998c: 342. Collection consists of an original round box and an original quadratic box housed in one larger box to which the red holotype label is affixed. Lid of round box marked 'Skorpen, 8.ix.1890' and '*L. divergens*' and 'Lith. pl. 16, fig. 43-50' and 'Lithoth. Monogr. pl. 20, fig. 7-8' and 'Præp. [= slide] xxx'. Round box contains slides 92-93 and slide xxx. Slides 92-93 marked with 1895 pfa data. Slide xxx marked '~~*L. gracil.*~~ f. *L. divergens*'. Two specimens in round box have green tags, one marked 'Lith. Mon. pl.20, f. 7' and the other marked 'Lith. Mon. pl. 20, f. 8'. Lid of quadratic box marked 'Kvænangen, Skorpen, 8.ix.1890' and 'MF' and '*L. divergens* = *L. tophiforme* (ialf. delvis [= at least partly])'. Quadratic box contains the unnumbered slide (marked '*L. divergens*'). Five specimens in quadratic box have green tages, three marked '10' and two marked '18' (significance of numbers uncertain). Quadratic box also contains fragments and two annotation slips in a new small box. One slip marked '2 delte sp. [= 2-parted sporangia] 120x50'. Other slip marked 'Sp. konc. [= sporangial conceptacles] 300-400µ' and 'Cyst. konc. [= cystocarpic conceptacles] 340-400µ'. Slides not mentioned in Adey & Lebednik 1967: 78. Collection also represented in *Lithothamnium Selecta Exsiccata* (Chapter 6), but with modern locality names (Troms, Kvænangen, Skorpa)]; **TRH C11-3167**.

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: green tag on one specimen marked 'x' and 'Sp. 2 delte [= sporangia 2-parted]'. Grouped with five collections of *L. tophiforme* (C11-3161, C11-3162, C11-3163, C11-3164, C11-3165) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3168**.

Jónsson; Island [= Iceland]; Ø. Island [= east Iceland], Vatternes; collection depth: 13-29 fathoms; 15.vii.1898; [no slides]; Jónsson collection number 412; pfa: Printz 1929, pl. 20, figs 11, 17; [Note: box marked '*L. tophiforme* fin [= fine] f. *divergens*' and 'Sp. 2 delt [= sporangia 2-parted]'. The other part of Jónsson 412 is filed under *Lithothamnion glaciale* (B9-2204). Collection not included in Adey & Lebednik 1967]; **TRH C11-3169**.

tophiforme, Lithothamnion (f. flabellata) [originally described as *Lithothamnion flabellatum* (Rosenvinge 1893: 772). At first recognized as a distinct species by Foslie (1895a: 98), but subsequently (Foslie 1900i: 11) reduced to the rank of form and treated as *Lithothamnion glaciale* f. *flabellata*, then (Foslie 1905c: 51) transferred without change in rank to *Lithothamnion tophiforme* as *L. tophiforme* f. *flabellata*, where Foslie retained in subsequent publication but with some doubt (Foslie 1980d: 15). Collection listed in Adey & Lebednik 1967: 78 under *Lithothamnion tophiforme*, without mention of forma. Two additional collections of '*flabellata*' are in Drawer B9]. **Type:** apparently not designated (Woelkerling 1993: 93). There is no syntype material in **TRH**.

Foslie; [Norway]; Altenfjord, Storkorsnes [now Altafjorden, Storekorsnes]; collection depth: ca 15 fathoms; 10.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 20, fig. 18; [Note: box marked '*L. tophiforme* f. *divergens* & *flabellata*'. Grouped with three collections of *L. tophiforme* (C11-3148, C11-3149, C11-3150) under one entry in Adey & Lebednik 1967: 78]; **TRH C11-3170.**

tophiforme, Lithothamnion (f. globosa). See listing under ***soriferum, Lithothamnion (f. globosa)***

tophiforme, Lithothamnion (f. sphaerica). See listing in Drawer B9 and in Drawer C12

Case C, Drawer 12

During the present study, one note that could not be matched to any collection was found in Drawer C12. The note has been placed in an envelope marked 'Loose note found in Drawer C12'.

tophiforme, Lithothamnion [first illustrated (Esper 1789: *Millepora* Taf. XV) and then (Esper 1790: 221) effectively and validly published as *Millepora polymorpha* var. *tophiformis*. Subsequently (Unger 1858: 21) raised to the rank of species and transferred into *Lithothamnion* as *Lithothamnion tophiforme* and retained under that name by Foslie in publication. Additional collections are in Drawer C11]. **Neotype: TRH, C12-3179** (see below).

Jónsson; Island [= Iceland]; Arnarnes; collection depth: 5-7 fathoms; 30.vi.1898; [no slides]; Jónsson collection number 219; pfa: Printz 1929, pl. 20, fig. 5; [Note: annotation slip in box marked '2 delte [= 2-parted]'. The other part of Jónsson collection 219 is filed under *Lithothamnion glaciale* (B9-2202)]; **TRH C12-3171.**

Jónsson; Island [= Iceland]; Hólmanes; collection depth: 12-14 fathoms, 'rif [= reef]'; 18.vii.1898; [no slides]; Jónsson collection number 433; [no pfa]; [Note: box marked '*L. tophiforme* (?)' and 'Steril [= sterile]'. Annotation slip in box marked 'Ingen sporer [= without spores]']; **TRH C12-3172.**

Lundbeck; Island [= Iceland]; Annanfjord; collection depth: ca 10 fathoms; 11.vii.1892; slide 94; Lundbeck collection number 32, [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. tophiforme* f. (*L. divergens* Fosl.)'. Annotation slip in box marked 'Ingen sporer [= without spores]'. Collection includes two fragments in a small unmarked box. Adey & Lebednik 1967: 79 omit mention of collector]; **TRH C12-3173.**

Lundbeck; Island [= Iceland]; Hesteyrefjord; [no habitat data]; 12.v.1892; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C12-3174.**

Lundbeck; Island [= Iceland]; Talknafjord; [no habitat data]; 9.vii.1893; [no slides]; Lundbeck collection number 46 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. tophiforme* (?)'. Other parts of Lundbeck collection 46 are filed under *Lithothamnion foecundum* (B2-1694) and *Lithothamnion laeve* (B4-1837)]; **TRH C11-3175.**

Möller; Island [= Iceland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*L. tophiforme?* (steril [= sterile])' and '(af gammel samling [= from old collection])' and faintly marked '(1 ekspl. [= one specimen] *L. glac.*)'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Adey & Lebednik 1967: 79 omit mention of the collector but mistakenly list 'Möllen' as the collection locality]; **TRH C12-3176.**

Petersen [Johan]; Grønland [= Greenland]; Sukkertoppen; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: this is probably the collection cited by Rosenvinge 1893: 772 under *Lithothamnion soriferum*]; **TRH C12-3177.**

Ruggles; [Canada]; Nova Scotia, Digby County, Bay of Fundy; [no habitat data]; [no date]; [no slides]; comm. Mackay, number 12; [no pfa]; [Note: box faintly marked '*L. tophi.*' and '*L. glac.?*'. Annotation slip with collection marked '*Lithoth. tophiforme*' and 'Ruggles' and 'com. Mackay' and 'Utlånt [= on loan to] Adey, 15.ix.1969'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid and annotation slip]; **TRH C12-3178.**

Ryberg; Grønland [= Greenland]; Julianehaab; [no habitat data]; [no date]; one slide; [no other collection data]; [no pfa]; [Note: **Neotype** of *Lithothamnion tophiforme* Unger. Additional data — Adey 1970a: 228. Adey & Lebednik (1967: 79) report that four boxes occur, but only one box and one slide has been found. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH C12-3179.**

[Anon.]; Island [= Iceland]; [other locality data unclear. See Note]; collection depth: 7 fathoms; [no date]; [no slides]; [ex] Bot. Mus. Kbhavn [**C**]; [no pfa]; [Note: box marked '(gammel samling [= old collection])'. Box lid also marked with an unclearly written word (after the country name) which could be 'Natudire' or 'Vatudire'. No locality of either name could be found, however]; **TRH C12-3180.**

tophiforme, Lithothamnion (f. sphaerica) [originally described as *Lithothamnion tophiforme f. sphaerica* (Foslie 1905c: 51), where Foslie retained it in publication. Collection below listed in Adey & Lebednik 1967 79 under *Lithothamnion tophiforme* without mention of forma]. **Lectotype:** TRH, B9-2256 (in Brawer B9).

[Lyman]; [United States]; [Maine, Eastport]; [no habitat data]; [no date]; slide 523; [comm.] Farlow 1900, number 7; [no pfa]; [Note: box marked with the Roman numeral 'V' and '*L. glaciale* forma? = *L. tophif. f. sphaerica* cp. Remarks'. 'Remarks' refers to Foslie 1905c: 57, where information on the collector and locality are given. Box also marked '*L. glaciale* WHA.'. Annotation slip with collection marked '*Lithoth. tophiforme*' and 'Farlow 1900' and 'V' and 'Utlånt [= on loan to] Adey, 15.ix.1969'. Collection entry in Adey & Lebednik 1967: 79 reads 'Farlow, 1900, no. V' and '523'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slide and any other annotation slips present was not accessible]; **TRH C12-3181.**

Case C, Drawer 13

During the present study, three notes that could not be matched to any collection were found in Drawer C13. The notes have been placed in an envelope marked 'Loose notes found in Drawer C13'. Foslie's label for Drawer C13 of the original wooden cabinet that once housed his specimens also was found in Drawer C13. It now has been placed in an envelope marked 'Label for the original wooden Drawer C13 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (*Gunneria* Vol. 67)]'.

alcicorne, Lithothamnion. See listing below for ***soriferum, Lithothamnion (f. alcicornis)***

soriferum, Lithothamnion [originally described as *Lithothamnion soriferum* (Kjellman 1883: 117), where Foslie retained it in publication]. **Type:** apparently not designated (Athanasiadis 1996: 45, who suggests with a question mark that type material is in **UPS**). **TRH** has at least two syntypes (C13-3185, C13-3200) identified by Kjellman.

- Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 10 fathoms; 21.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 19, fig. 2; [Note: box marked '*L. soriferum* (s. med [= mix with] *L. glac.*)' and 'alle tre ekspl. 4 delte sp. [= all three specimens with 4-parted sporangia]'. Collection includes fragments in a small box marked 'Alten, Bekkarfjord' and '*L. soriferum*' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with C13-3183 under one entry in Adey & Lebednik 1967: 79]; **TRH C13-3182.**
- Foslie; [Norway]; Alten [now Alta], Bekkarfjord; collection depth: ca 10 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4 delte og et par 2 delte [= sporangia 4-parted and a couple 2-parted]' and faintly marked 'Sp. konc. udt. fotogr. [= sporangial conceptacles taken out for photography]'. Grouped with C13-3182 under one entry in Adey & Lebednik 1967: 79]; **TRH C13-3183.**
- Foslie; [Norway]; Altenfjord [now Altafjorden], Sopnes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum*?' and '(Steril [= sterile])']; **TRH C13-3184.**
- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: 20-25 fathoms; 2.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: **Syntype** of *Lithothamnion soriferum* Kjellman. Additional data — Kjellman 1883: 120, Kjellman 1885: 91. Syntype not mentioned by Woelkerling (1993). Box marked 'det. Kjellman' and '(nær [= close to] *fornicatum*!)'. One annotation slip in box marked 'Lebesby, 2.viii.1882' and '20-25 fathoms' and 'hvide [= white]'. Another annotation slip marked 'Originekspl. [= original specimen] Contrib. II [= Foslie 1891a]'. One specimen in C13-3185 matches the third specimen from the left depicted in Foslie 1891a, pl. 3, fig. 3 (identified there as *Lithothamnion soriferum* f. *globosa*). The two left-most specimens in this figure, from Honningsvaag, constitute the lectotype of *Lithothamnion soriferum* f. *globosa* (C11-3142). Apparently grouped with C13-3186, C13-3187, C13-3188 and C13-3189 under one entry in Adey & Lebednik 1967: 79. Slides 164-165 and 1620, mistakenly listed with the Lebesby material in Adey & Lebednik 1967: 79, are associated with C13-3197]; **TRH C13-3185.**
- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms; 2.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: apparently grouped with C13-3185, C13-3187, C13-3188 and C13-3189 under one entry in Adey & Lebednik 1967: 79. Slides 164-165 and 1620, mistakenly listed with the Lebesby material in Adey & Lebednik 1967: 79, are associated with C13-3197 (below)]; **TRH C13-3186.**
- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms; 2.viii.1882; two slides 38; [no other collection data]; pfa: Foslie 1895a, pl. 21, fig. 10, and Printz 1929, pl. 19, figs 3-4; [Note: box marked '*L. soriferum* (tildels med [= in part with] *L. flavescens*)' while both slides are marked '*L. tophiiforme* f. *typica* *soriferum* f. *globosa*'. One annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Another slip marked 'Lebesby, 2.viii.1882' and '20-25 fathoms' and 'Foslie' and '*Lithoth. soriferum* Kjellm.' and 'pl. 21, fig. 10 [= Foslie 1895a, pl. 21, fig. 10]'. Green tag on one specimen in box marked '17a' (significance of number uncertain). Green tags on other two specimens respectively marked 'Lith. Mon. pl. 19, f. 3' and 'Lith. Mon. pl. 19, f. 4 [= Printz 1929, pl. 19, figs 3-4]'. Apparently grouped with C13-3185, C13-3186, C13-3188 and C13-3189 under one entry in Adey & Lebednik 1967: 79. Slides 164-165 and 1620, mistakenly listed with the Lebesby material in Adey & Lebednik 1967: 79, are associated with C13-3197 (below)]; **TRH C13-3187.**
- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms; 2.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* (overv. [= overgrown] *L. flavescens* udtaget [= which is taken out])'. See B3-1753 for relevant collection of *Lithothamnion flavescens*. Green tag attached to one specimen marked '27a'. Annotation slip in box marked '4-delt sp. [= 4-parted sporangia]'. Apparently grouped with C13-3185, C13-3186, C13-3187 and C13-3189 under one entry in Adey & Lebednik 1967: 79. Slides 164-165 and 1620, mistakenly listed with the Lebesby material in Adey & Lebednik 1967: 79, are associated with C13-3197 (below)]; **TRH C13-3188.**

- Foslie; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: ca 20 fathoms; 2.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* næsten [= almost] f. *alcicornis*'. Apparently grouped with C13-3185, C13-3186, C13-3187 and C13-3188 under one entry in Adey & Lebednik 1967: 79. Slides 164-165 and 1620, mistakenly listed with the Lebesby material in Adey & Lebednik 1967: 79, are associated with C13-3197 (below)]; **TRH C13-3189.**
- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-12-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* (overv. *Ph. investiens* udtaget [= overgrown *Ph. investiens* which is taken out])']. See C27-3793 for relevant collection of *Phymatolithon investiens*. Grouped with one collection of *L. soriferum* f. *squarrosa* (C13-3205) and one collection of *L. soriferum* f. *alcicornis* (C13-3202) under one entry in Adey & Lebednik 1967: 79]; **TRH C13-3190.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kvalsund; [no habitat data]; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* (?) ell. [= or] *tophi-forme*' and 'Steril [= sterile]'. Collection not included in Adey & Lebednik 1967]; **TRH C13-3192.**
- Foslie; [Norway]; Malangen, Mestervik; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* eller [= or] *L. ungeri* f.?']; **TRH C13-3193.**
- Foslie; [Norway]; Sydvaranger [now Sør-Varanger], Kirkenes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* (?) ell. [= or] *tophi-forme*' and 'Steril [= sterile]']; **TRH C13-3191.**
- Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* næsten [= almost] f. *alcicornis*'. Grouped with three other collections of *L. soriferum* (f. *soriferum*) (C13-3195, C13-3196, C13-3197) and two collections of *L. soriferum* f. *squarrosa* (C13-3206, C13-3207) under one entry in Adey & Lebednik 1967: 79. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C13-3194.**
- [Foslie]; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* næsten [= almost] f. *alcicornis*' and '(nærmer sig delvis [= in part close to] *L. ungeri*)'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]' and 'Mindste ekspl., tømte konc. [= smallest specimen, empty conceptacles]'. Grouped with three other collections of *L. soriferum* (f. *soriferum*) (C13-3194, C13-3196, C13-3197) and two collections of *L. soriferum* f. *squarrosa* (C13-3206, C13-3207) under one entry in Adey & Lebednik 1967: 79. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5)]; **TRH C13-3195.**
- Foslie; [Norway]; Tromsø, Lanes - Grindø [now Grindøya]; collection depth: 15-20 fathoms; vii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. soriferum* næsten [= almost] f. *alcicornis*'. Grouped with three other collections of *L. soriferum* (f. *soriferum*) (C13-3194, C13-3195, C13-3197) and two collections of *L. soriferum* f. *squarrosa* (C13-3206, C13-3207) under one entry in Adey & Lebednik 1967: 79]; **TRH C13-3196.**
- Foslie; [Norway]; Tromsø, Lanes; [no habitat data]; 30.vii.1897; slide 1620; [no other collection data]; [no pfa]; [Note: box marked '*L. tøphi. soriferum?* ell. [= or] *L. ungeri* f. *flexuosa?*'. Green tag attached to large specimen marked 'Præp. [= slide] 1620'. Box for C13-3197 originally also included two specimens of *Lithothamnion ungeri* f. *flexuosa* and the associated slides and note. These have been separated here into a distinct collection and placed in Drawer B27 (B27-3830). Box lid of C13-3197 incorrectly marked 'Præp. [= slides] 164-165'. Slide 164 belongs to one collection of *Lithothamnion ungeri* f. *flexuosa* (B28-2816), while slide 165 belongs to another collection of *L. ungeri* f. *flexuosa* (B27-3830). Annotation slip in C13-3197 marked 'Tromsø, Lanes, 30.viii.1897' and 'Præp. [= slide] 1620'. Collection includes one fragment in a small box marked 'Tromsø, Lanes, 30.viii.1897' and '*L. ungeri* f. *flexuosa*' and 'Sp. konc. [= sporangial conceptacles] 300-

500 μ = præp. [= slide] 1620'. Fragments (possibly a mixture of C13-3197 and B27-3830) retained in C13-3197 in a small box marked 'fragments'. Adey & Lebednik 1967: 79 mistakenly attribute the slides to the Lebesby collections of *L. soriferum*. Grouped with three other collections of *L. soriferum* (f. *soriferum*) (C13-3194, C13-3195, C13-3196) and two collections of *L. soriferum* f. *squarrosa* (C13-3206, C13-3207) under one entry in Adey & Lebednik 1967: 79. Additional material with same species name, locality (Tromsø) and date occurs in ancillary herbarium (Chapter 5); **TRH C13-3197**.

Hørring; Island [= Iceland]; Hvalfjordur; collection depth: 5 fathoms, 'ralbund [= gravel bottom]'; 25.vi.1901; [no slides]; station 11, [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked '*Lith. tophiforme soriferum*']; **TRH C13-3198**.

Jónsson; Island [= Iceland]; Eyjafjordur; collection depth: 11 fathoms; 24.vi.1898; [no slides]; Jónsson collection number 182; pfa: Printz 1929, pl. 19, fig. 5; [Note: box marked 'sp. 4 delt [= sporangia 4-parted]'. Annotation slip in box marked 'Fin form af *soriferum* [= fine form of *soriferum*]']; **TRH C13-3199**.

Kjellman; [Norway]; Finmarken, Maasø [now Finnmark, Måsøy]; collection depth: 5-10 fathoms; 12.viii.1876; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 19, fig. 1 [as *L. soriferum* f. *globosa*]; [Note: **Syntype** of *Lithothamnion soriferum* Kjellman. Additional data — Kjellman 1883: 120, Kjellman 1885: 91. Syntype not mentioned by Woelkerling (1993). Annotation slip in box marked 'Originekspl. Contr. II [= original example, Foslie 1891a]'. Konc. [= conceptacles] 300-400 μ ' and 'Ingen sporer [= without spores]'. Specimen shown in Printz 1929, pl. 19, fig. 1 also shown in Foslie 1891a: pl. 3, fig. 3, second specimen from right (as *L. soriferum* f. *globosa*)]; **TRH C13-3200**.

[Anon.]; [Norway]; Finmarken [now Finnmark], Kjøllefjord; [no habitat data]; 17.vi.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4 delte [= sporangia 4-parted]']; **TRH C13-3201**.

soriferum, *Lithothamnion* (f. *alcicornis*) [originally described as *Lithothamnion alcicorne* (Kjellman 1883: 121). Subsequently (Foslie 1891a: 41) reduced to the rank of form and treated as *Lithothamnion soriferum* f. *alcicornis*, then (Foslie 1895a: 147) transferred without change in rank into *Lithothamnion tophiforme*, as *L. tophiforme* f. *alcicornis*, and then (Foslie 1905c: 49) transferred back to *Lithothamnion soriferum* f. *alcicornis* and thereafter retained under that name by Foslie in publication. Collections listed in Adey & Lebednik 1967: 79 under *Lithothamnion soriferum* without mention of forma]. **Type:** apparently not designated (Athanasiadis 1996: 44, who suggests with a question mark that type material is in **UPS** and lists the taxon in the synonymy of *Lithothamnion tophiforme*). **TRH** has one syntype (C13-3203).

[Foslie]; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-12-15 fathoms; 28.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. tophiforme soriferum* f. *alcicornis*']. Grouped with one collections of *L. soriferum* f. *squarrosa* (C13-3205) and one collection of *L. soriferum* (f. *soriferum*) (C13-3190) under one entry in Adey & Lebednik 1967: 79]; **TRH C13-3202**.

Foslie; [Norway]; Tromsø; [no habitat data]; 5.viii.1882 and vi.1884; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 19, figs 10-12; [Note: box marked 'Steril [= sterile]'. Both dates appear on the outside of the same box cover suggesting the collection is a mixture of specimens collected on two dates, but these no longer can be separated from one another. The material collected on 5.viii.1882 is **Syntype** material of the taxon (see Kjellman 1883: 122). Collection not included in Adey & Lebednik 1967]; **TRH C13-3203**.

soriferum, *Lithothamnion* (f. *squarrosa*) [originally described as *Lithothamnion tophiforme* f. *squarrosa* (Foslie 1895a 183) but subsequently (Foslie 1905c: 49) transferred without change in rank into *Lithothamnion soriferum* as *L. soriferum* f. *squarrosa*. Collections listed in Adey & Lebednik 1967: 79 under *Lithothamnion soriferum* without mention of forma]. **Lectotype:** **TRH**, C13-3207 (see below).

Foslie; [Norway]; [Finnmark] Lebesby; [no habitat data]; 2.viii.1882; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 21, fig. 8, and Printz 1929, pl. 19, fig. 7; [Note: collection consists of one specimen originally placed in the same box as the lectotype (C13-3207) but separated here as a distinct collection. Original label with collection details still affixed to original box containing C13-3207. Green tag attached to specimen is marked 'Lith. Mon. pl. 19, f. 7 [= Printz 1929, pl. 19, fig. 7]']; **TRH C13-3829.**

Foslie; [Norway]; Grindø [now Grindøya] ved [= near] Tromsø; collection depth: ca 20 fathoms; 30.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 19, fig. 8; [Note: box marked 'Sp. [= sporangia]'. Annotation slip in box marked '4 delte sp. [= 4-parted sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH C13-3204.**

Foslie; [Norway]; Porsangerfjorden, Tamsø [now Tamsøya]; [no habitat data]; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 4 delte [= sporangia 4-parted]'. Grouped with one collection of *L. soriferum* (f. *soriferum*) (C13-3190) and one collection of *L. soriferum* f. *alcicornis* (C13-3202) under one entry in Adey & Lebednik 1967: 79]; **TRH C13-3205.**

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 19, fig. 6; [Note: box marked 'Sp. [= sporangia]'. Grouped with four collections of *L. soriferum* (f. *soriferum*) (C13-3194, C13-3195, C13-3196, C13-3197) and one other collection of *L. soriferum* f. *squarrosa* (C13-3207) under one entry in Adey & Lebednik 1967: 79. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (Chapter 6), except locality given as 'Tromsø, Grindøy']; **TRH C13-3206.**

Foslie; [Norway]; Tromsø; [no habitat data]; vi.1884; slides 37, 183; [no other collection data]; pfa: Foslie 1895a, pl. 21, fig. 8, and Printz 1929, pl. 19, fig. 9; [Note: **Lectotype** of *Lithothamnium tophiforme* f. *squarrosa* Foslie. Additional data — Woelkerling 1993: 206. Collection consists of one specimen. Box lid marked '*L. soriferum* f. *squarrosa*' but slides marked '*L. tophiforme* f. *squarrosa* *soriferum* f. *globosa*'. Slides also marked 'Tromsø, vi.1884' and 'Norv. Lith. pl. 21, f. 8 [= Foslie 1895a pl. 21, fig. 8]'. Slide 37 is also marked 'M.F.', confirming that Foslie collected the material. Green tag attached to specimen marked 'Lith. Mon. pl. 19, f. 9 [= Printz 1929, pl. 19, fig. 9]'. Annotation slip in box has cell measurements for slide 37. Lectotype box also originally contained a specimen from Lebesby, which has been separated out here and treated as a separate collection (C13-3829). Grouped with four collections of *L. soriferum* (f. *soriferum*) (C13-3194, C13-3195, C13-3196, C13-3197) and one other collection of *L. soriferum* f. *squarrosa* (C13-3206) under one entry in Adey & Lebednik 1967: 79. Material with same collecting information represented in *Lithothamnium Selecta Exsiccata* (Chapter 6), except locality given as 'Tromsø, Grindøy']; **TRH C13-3207.**

***tophiforme*, *Lithothamnium* (f. *alcicornis*).** See listing above for ***soriferum*, *Lithothamnium* (f. *alcicornis*)**

***tophiforme*, *Lithothamnium* (f. *squarrosa*).** See listing above for ***soriferum*, *Lithothamnium* (f. *squarrosa*)**

Case C, Drawer 14

fornicatum*, *Lithothamnium [originally described as *Lithothamnium fornicatum* (Foslie 1891a: 38), where Foslie retained it in publication. Additional collections are in Drawers B13 and B21-26]. **Lectotype:** TRH, B21-2712 (in Drawer B21).

Foslie; [Norway]; Skjørn, Rylstranden [now Stjørna, Rylstranda]; collection depth: ca 2 fathoms; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of eight, large, unboxed specimens, some fragments, one annotation slip with collection information, and a second annotation slip faintly marked '9.1890' and '2 ekspl. [= 2 specimens]' and 'Skjørn' and 'Rylstr.'. Annotation slip with material marked 'Herfra udt. 1 ekspl. fotogr. [= from here one specimen is taken out for photography]'. Additional material with same species name, locality and date occurs in ancillary herbarium (Chapter 5) but is labelled *Lithothamnion fornicatum* f. *subsphaerica* + f. *obcrateriformis* [f. *obcrateriformis* is a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160) and f. *subsphaerica* is a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213)]. Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) using the name *Lithothamnion fornicatum* f. *subsphaerica* + f. *obcrateriformis* and using the modern locality name Sør-Trøndelag, Stjørna but without mention of Rylstranden]; **TRH C14-3208**.

Case C, Drawer 15

During the present study, some loose photos in envelopes were found in Drawer C15. Most photos contained specimens from more than one collection, and some of the specimens shown in the photos could not be matched to specimens in Drawer C15. Consequently, all of these photos and envelopes have been placed in a larger envelope marked 'Loose photos found in Drawer C15 that are associated with various collections'.

brasiliense, *Lithothamnion* [originally described as *Lithothamnion brasiliense* (Foslie 1900a: 4), where Foslie retained it in publication]. **Holotype:** TRH, C15-3209 (see below).

Ihering, H. von [?]; Brasilien [= Brazil]; São Sebastiao; [no habitat data]; ix.1896; slide 413 and one unnumbered slide; ex coll. Museo Paulista [collections now at **SP**], von Ihering, collection number 1047; pfa: Printz 1929, pl. 14, fig. 6; [Note: **Holotype** of *Lithothamnion brasiliense* Foslie. Additional data — Woelkerling 1993: 43, who mistakenly listed the collector as 'von Ihering'. It is unclear whether 'von Ihering' collected the material or just communicated it. Unnumbered slide marked '*L. brasiliense*' and 'São Sebastiao' and 'Sporangier [= sporangia]' and '(i vand! [= in water!])'. Collection includes two fragments in a small box marked '*L. brasiliense*' and 'São Sebastiao' and '= præp. [= slide] 413' and 'Sp. konc. [= sporangial conceptacles]'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slide and any annotation slips present was not accessible]; **TRH C15-3209**.

canariense, *Lithothamnion* [originally described as *Lithothamnion canariense* (Foslie 1906a: 17), where Foslie retained it in publication]. **Holotype:** TRH, C15-3210 (see below).

Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; [collected in] littoral region; xii.1904-ii.1905; slides 1012, 1056-1057; [no other collection data]; pfa: Printz 1929, pl. 14, figs 7-8; [Note: **Holotype** of *Lithothamnion canariense* Foslie. Additional data — Woelkerling 1993: 46 and Woelkerling 1998c: 334. Box marked '2 største ekspl. [= two largest specimens]' after the pfa data. Annotation slip in box with collection date also imprinted 'Algues marines des Canaries'. Collection includes fragments in a small box marked '*L. canariense*' and 'Tenerife, 1905' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'Sp. konc. [= sporangial conceptacles]' and 'Anth. konc. [= antheridial conceptacles]']; **TRH C15-3210**.

erubescens, *Lithothamnion* [originally described as *Lithothamnion erubescens* (Foslie 1900a: 9), where Foslie retained it in publication]. **Holotype:** TRH, C15-3212 (see below).

Agassiz; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slide 527; [ex] herb. Farlow [FH], Farlow number XXIX; [no pfa]; [Note: box marked '*L. erubescens?*'. Slide marked '*L. fruticula-ungeri?*' and 'Herb. Farlow, nr. XXIX (1900)'. One annotation slip in box marked '*L. erubescens?*' and 'ii.1905' and '(Meddel [= communicated] Farlow)'. Second slip marked 'Ingen konc. [= without conceptacles]' and 'Snit [= cut] = *erubescens*'. Third slip marked by Farlow with collection data and annotated by Foslie with '*L. ungeri* f.?' and 'Nærmer sig ogsaa *Lithoph. congestum* i habit, men ngl. afvig. struktur. Synes være en *Lithoth.* [= grading also into *Lithoph. congestum* in habit, but some divergent structure. Seems to be a *Lithoth.*']; **TRH C15-3211.**

Ridley, Lea, & Ramage; [Brazil]; Fernando do Noronha, Chaloup Bay; [no habitat data]; 1887; slide 340; [ex] Brit. Mus [BM], no. 14a, 1899; pfa: Foslie 1904b, text figs 15-16 and pl. 3, fig. 20; [Note: **Holotype** of *Lithothamnion erubescens* Foslie. Additional data — Woelkerling 1993: 85, Keats & Chamberlain 1994: 177-179, Verheij 1994: 121, and Harvey et al. 2003: 666, 668. Box is marked '*Lithoth. erubescens* f. *americana*', a superfluous name for f. *erubescens* (see Woelkerling 1993: 25). Box also faintly marked 'Siboga Expedition pl. III, f. 12 + tekst [= text] fig. 12' (refers to pfa data but with incorrect figure numbers). Slide marked 'Siboga Exp. text fig. 16' and contains locality and date data, and is also marked 'Brit. Mus. no. 14a' and '1899'. One annotation slip marked '*Lithothamnion mamillare*'. Second slip marked 'Ex herb. Brit. Mus. nr. 14' and '*Lith. mamillare*' and '*Lithoth. erubescens*' and 'Herb. Dickie? neppe d. scr. [= hardly this scr.]'. Third slip marked '91/334' and '*erubescens*'. Collection includes three small round boxes with fragments. One box marked '14a', second box marked '14b' and third box marked '*L. erubescens* f. *americana*' and 'Fernando do Noronha' and 'Sp. konc. [= sporangial conceptacles]'. One specimen in collection depicted in a photo marked 'Siboga Exp. LXI text fig. 15' with two other specimens not in TRH. Photo has been placed in an envelope marked 'Loose photos found in Drawer C15 that are associated with various collections'. Collection listed twice in Adey & Lebednik 1967: p. 79 (referring to pfa, which is partly incorrect, and slide but not collectors or locality), and p. 80 where more complete information is given]; **TRH C15-3212.**

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.1899; one slide labelled S.E. 160 (Siboga Expedition collection number); Siboga Expedition, station 240, collection 160; [no pfa]; [no notes]; **TRH C15-3213.**

[Weber-van Bosse]; [Indonesia]; Sula Besi, Sanana Bay; [no habitat data]; 13.ix.1899; [no slides]; Siboga Expedition, station 193, collection 714; [no pfa]; [Note: box marked '*L. erubescens* f.' and 'Konc. [= conceptacles]']; **TRH C15-3214.**

[Weber-van Bosse]; [Indonesia]; Sula Besi, Sanana Bay; [no habitat data]; 13.ix.1899; [no slides]; Siboga Expedition, station 193, collection 723; [no pfa]; [Note: box marked 'Cyst. [= cystocarpic]'. Collection consists of one large and five small fragments]; **TRH C15-3215.**

[Anon.]; Cocos-Keeling øerne [= Cocos-Keeling Islands]; 11°50'S.B. - 96°51'Ø.L. [= 11°50'S. - 96°51'E.], [no other locality data]; [no habitat data]; [no date]; slides 287, 1430; 'Josefine Exp. (?) [= Josephine Expedition (?)]; [no pfa]; [Note: annotation slip in box marked '*L. erubescens* fra [= from] Keeling Isl. ligner [= looks alike] f. *haingsisiana* i struktur [= in structure]'. Collection includes a small unmarked box with fragments and with an annotation slip marked 'Flerp. konc. [= several-pored conceptacles] 200-400µ'; **TRH C15-3216.**

erubescens, *Lithothamnion* (f. *haingsisiana*) [originally described as *Lithothamnion erubescens* f. *haingsisiana* (Weber-van Bosse & Foslie in Foslie 1901c: 4), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 79-80 under species without mention of forma]. **Lectotype:** L, 991.239-220 (Verheij & Woelkerling 1992: 279).

- [Weber-van Bosse]; [Indonesia]; Banda [Sea]; [no habitat data]; xi.1899; one slide labelled S.E. 173 (Siboga Expedition collection number); Siboga Expedition, station 240, collection 173; [no pfa]; [no notes]; **TRH C15-3217.**
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi; [no habitat data]; 2.-5.ii.1900; [one slide]; Siboga Expedition, station 303, specimen 17; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 80 (under *Lithothamnion erubescens*) but not found during present study. According to Adey & Lebednik 1967: 80, the collection consists only of one slide. Verheij & Woelkerling 1992: 279 designated specimen 17 (housed in **L**) as the lectotype of *L. erubescens* f. *haingsisiana* but did not mention any slide occurring in **TRH**]; **TRH C15-3218.**
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi; [no habitat data]; 2.-5.ii.1900; [no slides]; Siboga Expedition, station 303, collection 323; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113. Box marked 'S.E. 323 delvis [= in part]']; **TRH C15-3221.**
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi; [no habitat data]; 2.-5.ii.1900; [no slides]; Siboga Expedition, station 303, collection 350; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113]. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'; **TRH C15-3222.**
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi; [no habitat data]; 2.-5.ii.1900; one slide labelled S.E. 1285 (Siboga Expedition collection number); Siboga Expedition, station 303, collection 1285; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113. Collection consists of fragments in a small round box and one slide. Box marked with collection data. Slide marked '*L. erubescens* f. *haingsisiana* (ikke typisk [= not typical])']; **TRH C15-3224.**
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi nær [= near] Timor; [no habitat data]; 4.ii.1900; [no slides]; Siboga Expedition [station 303], specimen 29; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113. Specimen 337, originally housed in the same box, has been placed in a separate box with a separate collection number (C15-3831). Collection station not listed on box cover. One annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Second slip marked 'Haingsisi' and '= *L. erubescens*'. Adey & Lebednik 1967: 79 mistakenly interpret collection number '337' as the station number]; **TRH C15-3219.**
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi, nær [= near] Timor; [no habitat data]; 4.ii.1900; [no slides]; Siboga Expedition [station 303], specimen 337; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113. Specimens 29 (C15-3219) & 337 (this collection) originally were housed in the same box but have now been placed in separate boxes with separate **TRH** numbers. Original box cover and annotation slips are in C15-3219 but photocopies are included in present collection. One original annotation slip marked 'Ingen konc. [= without conceptacles]'. Second original slip marked 'Haingsisi' and '= *L. erubescens*'. Collection station not listed on box cover. Adey & Lebednik 1967: 79 mistakenly interpret collection number '337' as the station number]; **TRH C15-3831.**
- Weber-van Bosse; [Indonesia]; [Samau Island], Haingsisi nær [= near] Timor; [no habitat data]; 4.ii.1900; [no slides]; Siboga Expedition [station 303], collection 309; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113. Box marked '+ Gr. ekspl. koncept. [= + specimen conceptacles]'. Collection includes two fragments in a small

box marked '*L. erubescens* f. *haingsisiana*' and 'S.E. 309' and 'Sp. konc. [= sporangial conceptacles]'; **TRH C15-3220**.

[Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi; [no habitat data]; 4.ii.1900; slide 529; Siboga Expedition [station 303]; pfa: Foslie 1904b, text fig. 17 and pl. 3, fig. 16; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *haingsisiana* Foslie. Additional data — Verheij & Woelkerling 1992: 279 and Woelkerling 1993:113. Collection consists of fragments in a small round box and one slide. Box marked 'Expl. returned [= specimen returned]'. Slide marked '*L. erubescens* Fosl. f. *haingsisiana* A. Web. + Fosl.' and 'pl. III, fig. 16' and 'Tegning! [= drawing!]' and 'Haingsisi, 2.-5.ii.1900' and 'Siboga eksp.' and 'stat. 303' and 'text-fig. 17'. Siboga Expedition specimen number is not present. Collection not included in Adey & Lebednik 1967]; **TRH C15-3223**.

erubescens, Lithothamnion* (f. *madagascariensis*)**. See listing below for ***madagascariensis, Lithothamnion

erubescens, Lithothamnion* (f. *prostrata*)**. See listing below for ***incertum, Lithothamnion

***erubescens, Lithothamnion* (f. *subflabellata*)** [originally described as *Lithothamnion erubescens* f. *subflabellata* (Foslie 1904b: 31), but not mentioned in Foslie's subsequent publications. Collection C15-3225 listed in Adey & Lebednik 1967: 80 under species without mention of forma]. **Lectotype: L**, 991.239-235 (Verheij & Woelkerling 1992: 286).

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.1899; [no slides]; Siboga Expedition, station 240, collection 169; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *subflabellata* Foslie. Additional data — Verheij & Woelkerling 1992: 286 and Woelkerling 1993: 210. Collection includes two fragments in a small box marked '*L. erubescens* f. *subflabellata*' and 'Banda' and 'S.E. 169' and 'Sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C15-3225**.

[Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.1899; one slide labelled S.E. 187 (Siboga Expedition collection number); Siboga Expedition, station 240, collection 187; [no pfa]; [Note: **Isolectotype** of *Lithothamnion erubescens* f. *subflabellata* Foslie. Additional data — Verheij & Woelkerling 1992: 286 and Woelkerling 1993: 210. Box marked 'Cyst. – sp. konc. [= cystocarpic – sporangial conceptacles]'. Collection includes one fragment in a small box (rediscovered during the present study) marked '*L. erubescens* f. *subflabellata*' and 'Banda' and 'S.E. 187' and 'cyst. konc. [= cystocarpic conceptacles]'. The specimen from collection 187 illustrated in Foslie 1904b, pl. 3, fig. 24, and in Printz 1929, pl. 15, fig. 24 is missing (Verheij & Woelkerling 1992: 287)]; **TRH C15-3226**.

exasperatum, Lithothamnion [originally described as *Lithothamnion exasperatum* (Foslie 1907a: 9), but not mentioned in Foslie's subsequent publications]. **Holotype: TRH**, C15-3227 (see below).

Thaxter; Chile; Magellanstr. [= Strait of Magellan], Punta Arenas; [no habitat data]; 1905-1906; slides 1485-1486; [ex] herb. Farlow [**FH**] (1907), number 9; pfa: Printz 1929, pl. 14, fig. 14; [Note: **Holotype** of *Lithothamnion exasperatum* Foslie. Additional data — Woelkerling 1993: 88. Box and slides marked '*Lithoth. exasperatum-dissidens exasperatum*'. Annotation slip in box imprinted with 'South American Cryptogams'. Collection includes one fragment in a small box marked '*L. exasperatum*' and 'Chile' and 'Farlow nr. 9' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C15-3227**.

***falsellum, Lithothamnion* (f. *plicata*)**. See listing below for ***prolixum, Lithothamnion* (f. *plicata*)**

fretense, *Lithothamnion* [originally described as *Lithothamnion fretense* (Foslie 1907a: 8), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, C15-3228 (see below).

Yendo; Japan; Japan Sea coast, Etschigo [= Echigo] Province, Kaifuura; [no habitat data]; 1899; slide 404; Yendo collection number 113; pfa: Printz 1929, pl. 14, fig. 17; [Note: **Holotype** of *Lithothamnion fretense* Foslie. Additional data — Woelkerling 1993: 98. Collection includes one fragment in a small box marked '*L. fretense*' and 'nr. 113' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C15-3228.**

imbricatum, *Lithothamnion* [originally described as *Lithothamnion imbricatum* (Dickie 1877a: 486). Then unknowingly redescribed as *Lithothamnion dickiei* by Foslie (1900a: 7) who thought that Dickie's name was only an herbarium name. Later, Foslie (190b: 12) corrected his mistake and recognized *L. imbricatum* as a distinct species]. **Holotype:** BM, algal box collection 1017 (Woelkerling 1993: 120, Woelkerling 1998c: 348).

Mosley; [Society Islands]; Tahiti, Papeete Harbour; collection depth: 20 fathoms; [no date]; slides 339, 1610; Challenger Expedition, [ex] British Museum [BM] 1899, collection number 13; pfa: Printz 1929, pl. 14, fig. 18; [Note: **Holotype fragments** of *Lithothamnion imbricatum* Dickie. Additional data — Woelkerling 1993: 120 and Woelkerling 1998c: 348. Box marked 'Del af typeekspl. jfr. [= part of type material cf.] Lith. Monogr. pl. 14, fig. 18'. Collection includes two fragments in a small box marked '*L. imbricatum*' and 'Tahiti' and 'Brit. Mus. nr. 13' and 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967: 80 mistakenly list 'Dickie' as the collector]; **TRH C15-3229.**

[Weber-van Bosse]; [Indonesia]; Borneo Bank, Pulu Sebangkatan; [no habitat data]; 14.vi.1899; [no slides]; Siboga Expedition, station 81, collection 914; pfa: Foslie 1904b, text fig. 14B; [Note: collection consists of one fragment. Box marked 'Konc. [= conceptacles]']; **TRH C15-3230.**

[Weber-van Bosse]; [Indonesia]; Lamakwera, Solor Island; [no habitat data]; 27.-28.iv.1899 [but see Note]; one slide labelled S.E. 1128 (Siboga Expedition collection number); Siboga Expedition, station 61, collection 1128; pfa: Foslie 1904b, text fig. 14A; [Note: material in collection fragmented. Slide dated '28.iv.1899' but box dated '27.-28.iv.1899'. Collection includes one fragment in a box marked '*L. imbricat.*' and 'Solor Isl.' and '= Tekst. [= text] fig. 14A = præp. [= slide] S.E. 1128' and 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967:80 mistakenly list locality as 'Samakwera, Sobr Is.']; **TRH C15-3232.**

[Weber-van Bosse]; [Indonesia]; Rotti Island, Pepela Bay; [no habitat data]; 30.i.1900; one slide labelled S.E. 501 (Siboga Expedition collection number); Siboga Expedition, station 301, collection 501; [no pfa]; [Note: box marked '*Gon. laccadivicum* f.? = *Lithoth. imbricatum*?'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Slide marked '*Gon. laccadivicum* f.?']; **TRH C15-3231.**

[Anon.]; [Tuamotu Archipelago]; Tearia; [no habitat data]; [no date]; slides 1433-1434, 1446, 1611; [ex] Mus. Paris [PC], [comm.] P. Hariot, iv.1907, collection numbers 16 and 28; pfa: Printz 1929, pl. 14, fig. 19; [Note: Tearia is part of the Tuamotu Archipelago within French Polynesia and not Tahiti (part of the Society Islands within French Polynesia) as indicated on box cover and on slides. Box also marked 'største ekspl. [= largest specimen]' after pfa data and 'Største og mindste stk. = nr. 16, præp. 1433-34 [= largest and smallest piece = nr. 16, slides 1433-1434]' and 'Næstm. stk. = nr. 28, præp. 1446, præp. 1611 [= second smallest piece = nr. 28, slide 1446, slide 1611]'. One annotation slip in box marked 'Ingen sp. [= without sporangia]'. Second annotation slip marked '*L. imbricatum*' and 'Konc. lidt større og høiere end *L. erubescens*. Cell. lidt mindre, grenene mere uregelmæssig grenet [= conceptacles somewhat larger and taller than *L. erubescens*. Cells somewhat smaller, the branches more irregular branched]'. Collection includes fragments

in a small box marked '*L. imbricat.*' and 'Tahiti' and 'Mus. Paris' and 'Sp. konc. [= sporangial conceptacles]'. Slides 1433 & 1434 marked 'Nr. 16'. Slides 1446 & 1611 marked 'Nr. 28'. Adey & Lebednik 1967: 80 mistakenly list 'Hariat' as the collector and 'iv.1907' as the collection date]; **TRH C15-3233**.

incertum, *Lithothamnion* [originally described as *Lithothamnion erubescens* f. f. *prostrata* (Foslie 1901a: 3) but subsequently (Foslie 1904c: 5) raised to species rank and re-described as *Lithothamnion incertum* with a nomenclaturally allowable change in epithet from *prostrata* (used by Foslie in the rank of forma) to *incertum* (used by Foslie in the rank of species). Both taxa are based on the same type]. **Holotype: TRH, C15-3238** (see below).

Howe; Bermuda; Bermuda Island, Hungry Bay; in a creek in a mangrove swamp; 25.vi.1900; one unnumbered slide; [ex] New York Bot. Garden [NY], collection number 211; pfa: Printz 1929, pl. 14, fig. 22; [Note: annotation slip in box marked by hand with 'No. 21' and 'Red or pink, soon becoming greenish'. Slip also includes habitat and date data, and is imprinted 'Bermuda Algae'. Slide marked 'Bermuda Alg. 211'. Collection includes one fragment in a small box marked '*L. incertum*' and 'Bermuda' and '25.vi.1900' and 'nr. 211' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C15-3234**.

Howe; Bermuda; St. David's Island, Red Bay; [no habitat data]; 29.vi.1900; one unnumbered slide; Howe collection number 326; pfa: Printz 1929, pl. 14, fig. 24; [Note: box marked '*Lith. incertum* f. *complanata* (næsten [= almost])'. The name f. *complanata* is superfluous for f. *incertum* (additional data — Woelkerling 1993: 55). One annotation slip in box imprinted with 'Bermuda Algae' and 'Bermuda Island' also is marked by hand with 'No. 326' and '*Melobesia?*' and '*Lithoth. incertum* f. *complanata* og [= and] *Lithoth. syntrophicum?*' and 'On No. 296'. 'No. 296' is C15-3236. Another slip marked 'Obs. cyst. konc. foruden sp. [= observed cystocarpic conceptacles besides sporangia]'. Slide marked '*Lithoth. incertum* f. *complanata*' and 'New York Bot. Gard.' and 'Bermuda Alg. 326']; **TRH C15-3235**.

Howe; Bermuda; St. David's Island, Red Bay; on rocks just below low water mark in a sheltered grotto; 29.vi.1900; one unnumbered slide; Howe collection number 296; pfa: Printz 1929, pl. 14, fig. 23 [as f. *complanata*]; [Note: box marked '*Lith. incertum* f. *typica* – *compl.*'. The name f. *complanata* is superfluous for f. *incertum* (additional data — Woelkerling 1993: 55). Annotation slip printed with 'Bermuda Algae' and 'Bermuda Island' also hand-marked with locality and habitat data and with '*Lithothamnion incertum*' and 'Pink when living, quickly changing to green on being gathered, when slowly bleaching'. Slide marked '(cyst.? [= cystocarpic?])' and 'Shows ostioles'. Envelope in Drawer C15 marked 'Loose photos found in Drawer C15 that are associated with various collections' contains two photos marked 'New York Bot. Garden 296'. Photos include one specimen from present collection]; **TRH C15-3236**.

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; i.1879; slide 486; ex herb. Farlow [FH], number XII; pfa: Printz 1929, pl. 14, figs 20-21; [Note: box and slide marked '*Lithoth. erubescens* = *L. incertum*'. Slide also marked 'Herb. Farlow (1900) XII'. One annotation slip in box marked 'Konc. største ekspl. [= conceptacles largest specimen]'. Second slip marked 'Kand ej finde sporer! [= cannot find spores!]. Third slip marked '1900' and 'XII' and '*Lith. erubescens* Fosl.' also imprinted with 'Herb. W.G. Farlow'. Fourth slip has cell measurements for slide 486 and also is marked '*L. incertum*' and 'Bermuda'. Collection incorrectly chosen as holotype by Adey in Adey & Lebednik 1967: 80. Additional data — Woelkerling 1993: 123]; **TRH C15-3237**.

[Anon.]; Bermuda; [no other locality data]; [no habitat data]; [no date]; slide 491; [ex] herb. Farlow [FH], [comm.] Farlow 1900, number XVIII; [no pfa]; [Note: **Holotype** of *Lithothamnion incertum* and of *Lithothamnion erubescens* f. *prostrata*. Additional data — Woelkerling 1993: 123, 178. Box marked '*Lith. erubescens* f. *prostrata incertum*'. Annotation slip with collection data also imprinted 'Herb. W.G. Farlow'. Another annotation slip marked

'Konc. største ekspl. [= conceptacles largest specimen]'. Slide labelled '*Lithothamnion erubescens* Fosl. f. *prostrata*'; **TRH C15-3238**.

inconspicuum*, *Lithothamnion [originally described as *Lithothamnion inconspicuum* (Foslie 1907b: 19), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, C15-3239 (see below).

Yendo; Japan; Hinga; [no habitat data]; viii.1900; slide 692; Yendo collection number 785; pfa: Printz 1929, pl. 14, fig. 16; [Note: **Holotype** of *Lithothamnion inconspicuum* Foslie. Additional data — Woelkerling 1993: 124. Box and slide marked '~~*L. erubescens* f. *madagascarensis*~~ *Lithoth. inconspicuum*'. Annotation slip in box marked '*Lithoth. fumigatum?*' and '(flerporet efter afskaling [= several-pored after shelled])' and 'Præp. 692 ekspl. x [= slide 692 specimen x]'. Collection includes one fragment in a small box marked '*L. inconspicuum*' and 'Sp. konc. [= sporangial conceptacles]'; **TRH C15-3239**.

madagascarensis*, *Lithothamnion [originally described as *Lithothamnion erubescens* f. *madagascarensis* (Foslie 1901e: 3, as *madagascarensis*) but subsequently (Foslie 1906a: 19) raised to the rank of species, namely *Lithothamnion madagascarensis* (as *madagascariense*) and retained under that name by Foslie in publication]. **Holotype:** PC, General Herbarium (Woelkerling 1998c: 343).

[Ferlus]; Madagascar; [Fort Dauphin]; [no habitat data]; [no date]; slide 689; ex Mus. d'hist. Nat. Paris [**PC**], 1901; pfa: Printz 1929, pl. 14, fig. 15; [Note: **Holotype fragment** of *Lithothamnion erubescens* f. *madagascarensis* Foslie. Additional data — Woelkerling 1993: 142, and Keats & Chamberlain 1994b: 177, and Verheij 1994: 121, and Woelkerling 1998c: 343. Box marked '(Fotogr. [= photography])'. Annotation slip in box marked 'Sp. 2 delte [= sporangia 2-parted]'. Slide 689 is marked '~~*L. erubescens* f. *madagascarensis*~~ *madagascariense*' and 'Herb. Mus. Paris 1901' and 'Madagascar'. Collection includes two fragments in a small box marked '*L. madagasc.*' and 'Madagascar' and 'præp. [= slide] 689' and 'Konc. [= conceptacles]'; **TRH C15-3240**.

Svedelius; Ceylon [now Sri Lanka]; Galle; [collected] in littoral region; 5.ii.1903; slide 979; [no other collection data]; [no pfa]; [Note: collection includes two fragments in a small box marked '*L. madagascar.*' and 'Ceylon, 5.vii.1903' and '= præp. [= slide] 979' and 'Sp. konc. [= sporangial conceptacles]'. Collection date given as 5.ii.1903 on large original box but as 5.vii.1903 on small box. Adey & Lebednik 19767: 80 omit mention of slide]; **TRH C15-3241**.

prolixum*, *Lithothamnion [originally described as *Lithothamnion prolixum* (Foslie 1908d: 9), where Foslie retained it in publication]. **Lectotype:** TRH, C15-3245 (see below).

Boodle; [South Africa]; Cape of Good Hope, Sea Point; [no habitat data]; xii.1889-iii.1890; slide 342; ex herb. Brit. Mus. [**BM**], 1899, number 16; [no pfa]; [Note: material in collection fragmented. Box marked '*Melob. brassica florida* det. Barton' and '= *Lith. falsellum* Heydr. *prolixum* f. *genuina* Fosl.' and 'Fotogr. [= photography]'. Collection includes one fragment in a small box marked '*L. falsellum prolixum*' and 'Natal Cape of Good Hope' and '29.xii.1890' and 'Brit. Mus. 16' and 'Sp. konc. [= sporangial conceptacles]'; **TRH C15-3242**.

Tyson; [South Africa]; Cape of Good Hope; [no habitat data]; 1894; slide 343; ex herb. British Mus. [**BM**], 1899, number 17a; pfa: Printz 1929, pl. 14, fig. 11; [Note: material in collection fragmented. Box marked '= *L. falsellum* Heydr. *prolixum* f. *genuina*' and 'Fotografi [= photography]'. *Lithothamnion prolixum* f. *genuina* is superfluous for *Lithothamnion prolixum* f. *prolixum*, the type form of the species. Annotation slip in box marked 'Pres. by W. Tyson' and '20.iv.1895'. Collection includes two fragments in a small box marked *L. falsellum prolixum* and 'C. of G. Hope' and 'Brit. Mus. 17a' and 'Sp. konc. [= sporangial concep-

tacles]'. Grouped together with the holotype of *Lithothamnion prolixum* f. *plicata* (C15-3246) under one entry in Adey & Lebednik 1967: 80]; **TRH C15-3243**.

Weber-van Bosse; Sydafrika [= South Africa]; ved [= near] Capetown [= Cape Town], Sea Point; [no habitat data]; 1894; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 14, fig. 12; [Note: box marked '*Lith. falsellum prolixum* f. *genuina*', a superfluous name for *L. prolixum* f. *prolixum*]; **TRH C15-3244**.

Weber-van Bosse; Sydafr. [= South Africa]; Natal; [no habitat data]; 1893; slides 698-699; [ex] Herbarium Weber-van Bosse [L]; pfa: Printz 1929, pl. 14, figs 9-10; [Note: **Lectotype** of *Lithothamnion prolixum* Foslie. Additional data — Woelkerling 1993: 177. Box marked '*L. falsellum Heydr. prolixum* f. *genuina*' and 'c. 50 fine kanaler [= ca 50 fine channels]' and '2 delte sp. [= 2-parted sporangia]'. *Lithothamnion prolixum* f. *genuina* is superfluous for *Lithothamnion prolixum* f. *prolixum*, the type form of the species. Annotation slip in box marked by hand 'Natal, 1893' is also imprinted with 'Herbarium Weber-Van Bosse'. Slide 698 marked '*L. falsellum Heydr. prolixum* f. *genuina* Fosl.' while slide 699 marked '*L. falsellum Heydr. prolixum*'. Collection includes one fragment in a small box marked 'Natal, 1893' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C15-3245**.

prolixum, Lithothamnion (f. plicata) [originally described as *Lithothamnion falsellum* f. *plicata* (Foslie 1900a: 10) but later (Foslie 1908d: 9) transferred in the rank of formae from *Lithothamnion falsellum* to *L. prolixum* and treated as *Lithothamnion prolixum* f. *plicata*. Collections listed in Adey & Lebednik 1967: 80 under species without mention of forma]. **Holotype:** TRH, C15-3246 (see below).

Tyson; [South Africa]; Cape of Good Hope; [no habitat data]; 1894; slide 341; ex herb. British Mus. [BM], 1899, number 15; pfa: Printz 1929, pl. 14, fig. 13; [Note: **Holotype** of *Lithothamnion falsellum* f. *plicata* Foslie. Additional data — Woelkerling 1993: 174. Collection consists of fragments. Box marked '*Melob. brassica florida* det. Barton' and '= *L. falsellum Heydr. prolixum* f. *plicata* Fosl.' and '2 delte sp. [= 2-parted sporangia]' and 'Fotografi [= photography]'. Grouped together with a Tyson collection of *Lithothamnion prolixum* (f. *prolixum*) (C15-3243) under one entry in Adey & Lebednik 1967: 80]; **TRH C15-3246**.

Case C, Drawer 16

During the present study, two notes that could not be matched to any collection were found in Drawer C16. The notes have been placed in an envelope marked 'Loose notes found in Drawer C16'. In addition, several loose photographs were found that could not be matched to particular specimens. These have been placed in an envelope marked 'Photos found in Drawer C16 that could not be matched with any specimens'.

accline, Lithothamnion [originally described as *Lithothamnion accline* (Foslie 1907b: 20), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, C16-3247 (see below).

[Anon.]; Samoa [= Samoa Islands]; [no other locality data]; [no habitat data]; [no date]; slide 680; ex Bot. Mus. Hamburg [HBG]; pfa: Printz 1929, pl. 14, fig. 4; [Note: **Holotype** of *Lithothamnion accline* Foslie. Additional data — Woelkerling 1993: 15. Box marked 'Brudst. af lidet ekspl. paa sten [= fragment of small specimen on stone]' and 'Fotogr. [= photography]'. Collection includes two fragments in a small box marked '*L. accline*' and 'Sp. koncept. [= sporangial conceptacles]'. The Samoa Islands include the nation of

Samoa and American Samoa (a dependency of the United States)]; **TRH C16-3247**.

aemulans, *Lithothamnion* [originally described as *Lithothamnion fruticosum* var. *aemulans* (Foslie & Howe 1906b: (130)) but subsequently (Foslie 1908d: 9) raised to the rank of species, namely *Lithothamnion aemulans*]. **Holotype**: divided between **NY**, Howe collection 3237, and **TRH** (C16-3248) (Woelkerling 1993: 19).

Howe; Puerto Rico; San Juan; lying free just below low tide mark; 28.v.1903; slide 1631 and two slides numbered 2237 (collection number); New York Bot. Garden [**NY**] 2237 [Howe collection number]; pfa: Printz 1929, pl. 12, fig. 21; [Note: **Part of holotype** of *Lithothamnion fruticosum* var. *aemulans* Foslie & Howe. Additional data — Woelkerling 1993: 19. In the protologue [Foslie & Howe 1906b: (130)], *aemulans* is explicitly accorded the rank of variety (varietas), but box lid is marked '*Lithothamnion fruticosum* f. [not var.] *aemulans*'. Annotation slip from Howe is printed 'New York Botanical Garden, North American Marine Algae' and as printed locality data. Same slip is marked by hand with habitat data and date and 'nr. 2237' and 'half of entire module, which was 10 cm long'. Slide 1361 and one slide numbered 2237 marked '*L. aemulans*' while the other slide numbered 2237 is marked '*Lithothamnion fruticosum aemulans*'. Collection includes one fragment in a box marked '*L. aemulans*' and 'nr. 2237' and 'Sp. konc. [= sporangial conceptacles]'. C16-3248 also includes two photos placed in a separate envelope. Photos show the entire holotype (both the parts in **TRH** and in **NY**); **TRH C16-3248**.

brachycladum, *Lithothamnion* [originally described as *Lithothamnion brachycladum* (Foslie 1900a: 3), where Foslie retained it in publication]. **Lectotype**: **BM**, algal box collection 30 (Woelkerling 1993: 42, Woelkerling 1998c: 332).

Vickers; [Canary Islands]; Gran Canaria; [no habitat data]; 1895-1896; slide 16; [ex] herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*L. sp. L. brachycladum??*' and '*Lith. racemus*' and '*aninae?*'. Slide marked 'Herb. Thur. - Born.' and '*L. sp. (non racem.) Lith. brachycladum??*']; **TRH C16-3250**.

[Anon.]; Kanariske øer [= Canary Islands]; Las Palmas; collection depth: 12 fathoms; [no date]; [no slides]; ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked '*L. brachycladum???*' and '*(L. aninae?)*']; **TRH C16-3251**.

[Anon.]; St. Helena [Island], [South Atlantic Ocean]; [no other locality data]; [no habitat data]; [no date]; slides 336, 1360; dredged off St. Helena, presented [to **BM**] by W.H. Surton, [ex] British Museum [**BM**] 1899, number 10; pfa: Printz 1929, pl. 12, fig. 19; [Note: **Holotype fragments** of *Lithothamnion brachycladum* Foslie. Additional data — Woelkerling 1993: 42 and Woelkerling 1998c: 332. Large original box marked 'Brudstk. + fotografi [= fragments + photography]'. Annotation slip in larger box marked 'En ganske liten prøve av denne sendt til Mme Lemoine, jan. 1936 [= one rather small sample of this sent to Mme Lemoine, January 1936]'. Collection also includes one fragment in a small box marked '*L. brachycl.*' and 'Brit. Mus. 10' and 'Sp. konc. [= sporangial conceptacles]'. C16-3249 also includes a photo in a separate envelope that shows the entire holotype. Adey & Lebednik 1967: 81 mistakenly list the collector as 'Surton' and the collection date as '1889'. The **BM** specimen mentioned by Woelkerling 1993: 43 cannot be part of the holotype as it comes from a different locality]; **TRH C16-3249**.

brasiliense, *Lithothamnion* (f. *heteromorphum*). See listing below for *heteromorphum*, *Lithothamnion*

floridanum, *Lithothamnion* [originally described as *Lithothamnion floridanum* (Foslie 1906b: 11), where Foslie retained it in publication]. **Holotype**: **TRH**, C16-3258 (see below).

Möller [A.F.]; [São Tomé and Príncipe]; St. Thomé [= São Tomé (Island)]; [no habitat data]; vii.1885; slide 923; ex herb. Univ. Coimbra [COI], number 27; [no pfa]; [Note: box marked '*Lithoth. floridanum?*'. One annotation slip in box marked 'leg. Möller'. Second annotation slip marked 'Prøve sendt Mme Lemoine jan. 1936 [= sample sent to Mme Lemoine January 1936]']; **TRH C16-3259.**

Wurdemann [but see Note]; [United States]; Florida; [no habitat data]; [no date]; slides 3, 499; [ex] herb. Farlow [FH], [comm.] Farlow, 1900, number XXV 'delvis [= in part]' and ex herb. Bornet [PC]; pfa: Printz 1929, pl. 12, figs 11-12; [Note: **Holotype** of *Lithothamnion floridanum* Foslie. Additional data — Woelkerling 1993: 96 and Woelkerling 1998c: 345. The holotype consists of material of 'Farlow XXV' sent directly to Foslie by Farlow and material of 'Farlow XXV' sent to Foslie by Bornet (who received it from Farlow). One annotation slip from Farlow is printed with 'Herb. W.G. Farlow' and is handwritten with '1900' and 'XXV' and '2 ekspl. [= two specimens] (*L. brachycl. x L. incr.*)' and '*L. crassum*' and 'Florida' and 'Wurdemann'. Second annotation slip is marked 'Præp. [= slide] Jacobs 3' and 'Herb. W.G. Farlow' and '*Lithothamn. crassum phil.?*' and 'Florida' and 'coll. Wærdermann' and 'Herb. Born.'. Third slip is marked 'Prøve sendt Mme Lemoine jan. 1936 [= sample sent to Mme Lemoine January 1936]'. Slide 3 marked 'Herb. Farl. Born.' and 'Wardermann'. The correct spelling of the collector's name is 'Wurdemann' (see Appendix 3). Collection also includes fragments in a small box marked '499'. Part of Farlow XXV was separated out by Foslie at some stage and placed under *Lithophyllum intermedium* in Drawer A6 (A6-283)]; **TRH C16-3258.**

fruticulosa*, *Lithothamnion* (f. *aemulans*).** See listing above for ***aemulans*, *Lithothamnion

funafutiense*, *Lithothamnion [originally described as *Lithothamnion philippii* f. *funafutiensis* (Foslie 1899b: 3), but subsequently (Foslie 1901b: 17) raised to the rank of species, namely *Lithothamnion funafutiense* and then retained under that name by Foslie]. **Lectotype: TRH, C16-3254** (see below).

[Anon.]; [Tuvalu]; Funafuti, Falefatu; collection depth: 38 fathoms; [viii.1898]; slides 420, 1592; [ex] British Mus. [BM], specimen A19, [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [Note: collection includes one fragment in a small box marked '*L. funafutiense*' and 'Brit. Mus. A19' and 'Sp. konc. [= sporangial conceptacles]'. Slide 420 marked 'Brit. Mus. A27' [not A19] and '*Lithothamnion funafutiense* Fosl.' and 'Funafuti'. No collection marked 'Brit. Mus. A27' appears to be present in Foslie's herbarium]; **TRH C16-3252.**

[Anon.]; [Tuvalu]; Funafuti, Fuamanu; collection depth: 80 fathoms; [no date]; [no slides]; [ex] British Mus [BM], specimen A24, [comm. G. Murray (see Foslie 1900g: 3)], 1899; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH C16-3253.**

[Anon.]; [Tuvalu]; Funafuti, off Tutanga; collection depth: 41 fathoms; viii.1898; slides 315-316, 1547; ex coll. Prof. Judd, Geol. Dept, Brit. Mus. [BM], collection B13, [comm. G. Murray (see Foslie 1900g: 3)], 1899 'største stk. [= largest piece]'; pfa: Printz 1929, pl. 12, fig. 3; [Note: **Lectotype** of *Lithothamnion philippii* f. *funafutiensis* Foslie. Additional data — Woelkerling 1993: 100, and Verheij 1994: 122. Lid of large original box marked '*Lith. funafutiensis*' and not '*Lithothamnion philippii* f. *funafutiensis*' but annotation slip in box marked '*L. philippii* f. *funafutiensis*' and '41 fathoms'. Large original box also marked 'Af ekspl. største lgd. 21.5 cm, fotogr. [= of specimen largest length 21.5 cm, photographed]'. Collection includes one fragment in a small box marked 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967: 81 omit mention of slide '1547' and 'Prof. Judd']; **TRH C16-3254.**

[Anon.]; [Tuvalu]; Funafuti, off Tutanga; collection depth: 86 fathoms; viii.1898; [no slides]; [ex] British Mus. [BM], specimen B15, [comm. G. Murray (see Foslie 1900g: 3)]; [no pfa]; [no notes]; **TRH C16-3255.**

[Anon.]; [Tuvalu]; Funafuti, off Tutanga; collection depth: 135 fathoms; viii.1898; [no slides]; [ex] British Mus. **[BM]**, specimen B7, 1899, [comm. G. Murray (see Foslie 1900g: 3)], 1899; [no pfa]; [Note: annotation slip in box marked 'Brit. Mus. B. nr. 7'. Adey & Lebednik 1967: 81 mistakenly list the **BM** number as '17']; **TRH C16-3256**.

funafutiense, Lithothamnion (f. elimbata) [originally described as *Lithothamnion funafutiense* f. *elimbata* (Foslie 1907b: 18), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 81 under species without mention of forma]. **Holotype: TRH, C16-3257** (see below).

[Anon.]; Sandwich Islands [now the State of Hawaii of the United States]; [no other locality data]; [no habitat data]; [no date]; slide 504; [ex] Herb. W.G. Farlow **[FH]**, [comm.] Farlow 1900, number XXXI; pfa: Printz 1929, pl. 12, fig. 4; [Note: **HOLOTYPE** of *Lithothamnion funafutiense* f. *elimbata* Foslie. Additional data — Woelkerling 1993: 84. Box marked 'XXXI² *Lith. funafutiense* forma *elimbata*' and '(XXXI¹ *Lithoph.* med orig. etiket [= with original label])'. Slide 504 marked 'Herb. Farlow XXXI² (1900)']; **TRH C16-3257**.

gibbosum, Lithothamnion [originally described as *Lithothamnion gibbosum* (Foslie 1907a: 7), where Foslie retained it in publication]. **Lectotype: TRH, C16-3260** (see below).

Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 55 fathoms; viii.1905; slide 1291; collection number C15 [a designated collection at Saya de Malha Bank (see Foslie 1907e: 93-98)]; pfa: Printz 1929, pl. 12, figs 14-17; [Note: **Holotype** of *Lithothamnion gibbosum* Foslie. Additional data — Woelkerling 1993: 105. Box and slide 1291 are marked '*Lithoth. gibbosum* f. *parvula*', a superfluous substitute name of the type form of the species (Woelkerling 1993: 105-106). Collection includes one fragment in a small box marked '*Lith. gibbosum*' and 'Saya de Malha' and 'nr. C15' and 'Sp. konc. [= sporangial conceptacles]'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean. Grouped with the holotype of *Lithothamnion gibbosum* f. *crassum* (C16-3261) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3260**.

gibbosum, Lithothamnion (f. crassa) [originally described as *Lithothamnion gibbosum* f. *crassa* (Foslie 1907e: 100), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967:81 under species without mention of forma]. **Holotype: TRH, C16-3261** (see below).

Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 55 fathoms; viii.1905; slide 1289; collection number C15 [a designated collection at Saya de Malha Bank (see Foslie 1907e: 93-98)]; pfa: Printz 1929, pl. 12, fig. 18; [Note: **Holotype** of *Lithothamnion gibbosum* f. *crassa* Foslie. Additional data — Woelkerling 1993: 65. Box marked 'Indiske hav [= Indian Ocean]'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean. Annotation slip in box marked 'Konc. til fotogr. af præp. 1289 [= conceptacles for photography of slide 1289]'. Grouped with the holotype of *Lithothamnion gibbosum* (f. *gibbosum*) (C16-3260) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3261**.

heteromorphum, Lithothamnion [originally described as *Lithothamnion brasiliense* f. *heteromorpha* (Foslie 1900a: 4), but subsequently (Foslie 1908d: 10) raised to the rank of species, namely *Lithothamnion heteromorphum*]. **Holotype: TRH, C16-3262** (see below).

Ihering H von; Brasilien [= Brazil]; São Sebastiao; [no habitat data]; ix.1896; slide 414; ex coll. Museo Paulista [collections now at **SP**], von Ihering collection number 1047; pfa:

Printz 1929, pl. 12, fig. 20; [Note: **Holotype** of *Lithothamnion brasiliense* f. *heteromorpha* Foslie. Additional data — Woelkerling 1993: 117. Box marked '*Lith. brasiliense* f. *heteromorpha*'. Collection includes one fragment in a small box (rediscovered during the present study) marked '*L. heteromorpha*' and 'Brasilien, São Sebastiao' and '= præp. [= slide] 414' and 'Sp. konc. [= sporangial conceptacles]'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slide and any annotation slips present was not accessible]; **TRH C16-3262**.

irregulare, Lithothamnion [originally described as *Lithothamnion irregulare* (Foslie 1907a: 6), where Foslie retained it in publication]. **Holotype:** TRH, C16-3264 (see below).

Kupfer; [São Tomé and Príncipe]; St. Thomé [= São Tomé Island]; collection depth: 6 fathoms; 1891; slide 597 [broken]; ex Bot. Mus. Hamburg [**HBG**], 1901; [no pfa]; [Note: box marked '*Lithoth. irregulare?* ~~*Gen. brassica-florida*~~ f.' and 'Afrika [= Africa]'. Annotation slip in box marked 'Ikke heteroc. [= no heterocysts (trichocytes)]'. Slide 597 is marked '~~*G. brassica-florida*~~ *L. fruticosum?* *irregulare?*'. Adey & Lebednik 1967: 81 omit mention of collector]; **TRH C16-3263**.

Möller, A.F.; [São Tomé and Príncipe]; St. Thomas [= São Tomé Island]; [no habitat data]; vi.1885; slides 798-799, 864; [ex] Univ. Bot. Mus. Coimbra [**COI**], number 26; pfa: Printz 1929, pl. 12, fig. 22; [Note: **Holotype** of *Lithothamnion irregulare* Foslie. Additional data — Woelkerling 1993: 130. Box marked 'Afrika [= Africa]' and '*Lithothamnion (?) irregulare*'. Collection includes one fragment in a small box marked 'Cyst. konc. til fotogr. [= cystocarpic conceptacles for photography]' and '*L. irregulare*'. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lids. Information on slides and any annotation slips present was not accessible]; **TRH C16-3264**.

japonicum, Lithothamnion [originally described as *Lithothamnion japonicum* (Foslie 1900a: 6), where Foslie retained it in publication]. **Holotype:** TRH, C16-3267 (see below).

Miyabe; Japan; Pacific Coast, Yezo [now Hokkaido Island], Iburi Province, Mororan; attached to the holdfasts of *Laminaria*; 21.iii.1897; slides 391, 1158; Miyabe collection number 7; pfa: Printz 1929, pl. 14, fig. 1; [Note: **Holotype** of *Lithothamnion japonicum* Foslie. Additional data — Woelkerling 1993: 132. Box marked 'ca. 42° 30' N.B.' and 'ca. 141° Ø.L.'. One annotation slip in box marked 'Cell. for det meste lengere og smalere end hos [= cells mainly longer and narrower than] *L. fretense*'. Second slip is marked 'Konc. til fotogr. af æske præp. 391 og 1158 fra Japan [= conceptacles for photography from box with slide 391 and 1158 from Japan]'. A third slip is marked 'on the Pacific Coast, where cold + warm current mingle' and 'Coll. + comm. Prof. K. Miyabe' and 'Came up attached to the holdfasts of a *Laminaria*'. Collection includes one fragment in a box marked '*L. japonicum*' and 'Yezo, 21.iii.1897' and 'Sp. konc. [= sporangial conceptacles]'. Collection also includes a fragment in a plastic tube marked '*Lithothamnion japonicum*'; **TRH C16-3267**.

[Anon.]; Japan; Kurile Archipelago, Shikotan Island; cold current region; 1895; slide 390; [comm. Miyabe], Miyabe collection number 5; [no pfa]; [Note: box marked '*L. obtectulum?* *japonicum?*' and 'Shikotan, one of the southern islands of the Kurile Archipelago'. Annotation slip in box marked 'Gj. [= duplicate (gjenpart)] Prof. K. Miyabe' and 'Coll. by officers in the Fishery Bureau in Sapporo'. Adey & Lebednik 1967: 81 mistakenly list 'Miyabe' as the collector]; **TRH C16-3269**.

[Anon.]; Japan; Pacific Coast, Yezo [now Hokkaido Island], Kushiro Province, Akkeshi; [no habitat data]; viii.1890; slide 388; [comm. Miyabe], Miyabe collection number 3; [no pfa]; [Note: box marked '*Lithothamnion obtectulum japonicum?*'. Annotation slip in box marked 'Gj. [= duplicate (gjenpart)] Prof. K. Miyabe' and 'Coll. by officers in the Fishery Bureau in Sapporo'. Adey & Lebednik 1967: 81 mistakenly list 'Miyabe' as the collector]; **TRH C16-3265**.

- [Anon.]; Japan; Pacific Coast, Yezo [now Hokkaido Island], Oshima Province, Osatsube; [no habitat data]; vii. 1890; slide 1366; comm. Miyabe, Miyabe collection number 1; [no pfa]; [Note: box marked '*Lithoth. japonicum* f.' and '(cell. lidt større end typen [= cells some larger than the type)]'. Annotation slip in box marked '1' and 'on the Pacific Coast, where warm + cold currents mingle' and 'Gj. [= duplicate (gjenpart)] Prof. K. Miyabe' and 'Collected by officers in the Fishery Bureau in Sapporo'. Slide marked 'K. Miyabe nr. 1.'. Adey & Lebednik 1967: 81 mistakenly list 'Miyabe' as the collector]; **TRH C16-3268.**
- [Anon.]; Japan; Pacific Coast, Yezo [now Hokkaido Island], Hitaka Province, Urakawa; [no habitat data]; vii. 1900; slide 389; [comm. Miyabe], Miyabe collection number 4; [no pfa]; [Note: box marked 'ca. 42° 15' N.B.' and 'ca 143° Ø.L.' and '*Lithoth. japonicum?* (nær [= close to] *L. indicum*)'. On box 'Miyabe' is mistakenly spelt 'Miayabe'. Annotation slip in box marked 'on the Pacific Coast, where cold current washes' and 'Gj. [= duplicate (gjenpart)] Prof. K. Miyabe' and 'Coll. by officers in the Fishery Bureau in Sapporo'. Adey & Lebednik 1967: 81 mistakenly list 'Miyabe' as the collector]; **TRH C16-3266.**
- [Anon.]; [Mexico]; [Gulf of] California, Golfe de la Paz [= Bay of La Paz]; [no habitat data]; [no date]; slide 1412; [ex] Mus. Paris **PC**, [comm.] P. Hariot, iv. 1907, number 6; [no pfa]; [Note: box marked '(*Lithoth. japonicum* f.??)' and 'Steril & ubest. [= sterile and undetermined]'. Adey & Lebednik 1967: 81 mistakenly list 'Hariot' as the collector, 'California USA' as the collection locality and 'iv. 1907' as the collection date]; **TRH C16-3270.**

japonicum, Lithothamnion* (f. *tahitica*).** See listing below for ***tahiticum, Lithothamnion

philippii, Lithothamnion* (f. *funafutiensis*).** See listing above for ***funafutiense, Lithothamnion

propontidis, Lithothamnion [originally described as *Lithothamnion propontidis* (Foslie 1899c: 4), where Foslie retained it in publication]. **Lectotype: TRH, C16-3272** (see below).

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: ca 1 fathom; 20.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Anth. konc.? [= antheridial conceptacles?']'. Grouped with seven other Nemetz collections (C16-3275 – C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3274.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: 1-1.5 metres; 20.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Collection consists of two large specimens as well as six specimens in a quadratic box and two fragments in a small round box. One slip with two large specimens marked 'Flerp. konc. [= several-pored conceptacles]'. Second slip with two large specimens marked 'Marmora Meer bei San Stefano, nächst Constantinople'. One slip in quadratic box marked 'Flerp. konc. [= several-pored conceptacles]' and 'Marmar., 1897' [not 1896 as the rest of the entry]. Second slip in quadratic box marked 'Ikke konc. [= no conceptacles]'. Third slip in quadratic box marked 'Marmara-Mer, San Stefano, 20.ix.1896'. Lid of small round box marked '*L. propontidis*' and 'Marmarahavet [= Sea of Marmara], 20.viii.1896' and 'Af største ekspl. i største æske [= from largest specimen in largest box]' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with seven other Nemetz collections (C16-3274, C16-3276 – C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3275.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: ca 1 fathom; 20.viii.1896; two slides numbered 2; [no other collection data]; [no pfa]; [Note: grouped with seven other Nemetz collections (C16-3274 – C16-3275, C16-3277 – C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3276.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: ca 1 fathom; 20.viii.1896; slide 3; [no other collection data]; [no pfa]; [Note: box

marked 'sp. konc. [= sporangial conceptacles]'. One annotation slip in box marked 'R. Fuess præp. nr. 3 af et lidet stk. med konc. med flere-poret tag [= R. Fuess slide number 3 of a small piece with several-pored conceptacles taken]'. Another slip is marked 'Luftblærer [= air bubbles]'. Grouped with seven other Nemetz collections (C16-3274 – C16-3276, C16-3278 – C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3277.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; [no habitat data]; 20.viii.1896; slides b-c, 50; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]'. One annotation slip in box marked 'Enp. konc. [= uniporate (enporede) conceptacles]' and 'Anth.? [= antheridia?]'. A second slip is marked 'Anth. konc. til fotogr. udtat herfra [= antheridial conceptacles for photography taken out from here]'. A third slip is marked 'Præp. [= slides] b & c, luftblærer [= air bubbles]'. Collection includes two fragments in a small box marked '50'. Grouped with seven other Nemetz collections (C16-3274 – C16-3277, C16-3279 – C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3278.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; collection depth: 1-1.5 metres; 20.viii.-ix.1896 and 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. & (anth.?) konc. [= cystocarpic & (antheridial?) conceptacles]'. Collection includes one fragment/specimen in a small box marked 'Konc. [= conceptacles]'. Grouped with seven other Nemetz collections (C16-3274 – C16-3278, C16-3280 – C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3279.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst. konc. fotogr. [= cystocarpic conceptacles photographed]'. Collection includes one fragment in a small box marked '*L. propontidis*' and 'San Stefano, 1897' and 'Af æsk. mk. cyst. konc. fotogr. [= from box marked cystocarpic conceptacles photographed]' and 'Cyst. konc. [= cystocarpic conceptacles]'. Grouped with seven other Nemetz collections (C16-3274 – C16-3279, C16-3281) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3280.**

Nemetz; [Turkey]; Marmarahavet [= Sea of Marmara], San Stefano [now Yesilköy]; [no habitat data]; 1897; slide 1627; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with seven other Nemetz collections (C16-3274 – C16-3280) under one entry in Adey & Lebednik 1967: 81]; **TRH C16-3281.**

[Anon.]; [Turkey]; Det sorte hav [= the Black Sea], near the Isle of Serpents; collection depth: 20 fathoms; [no date]; [no slides]; comm. Andrussow; [no pfa]; [Note: one annotation slip in box marked 'Koncept. [= conceptacles]'. Second slip marked 'Cell. lidt grovere end præp. 50, Marmarasøen [= cells some coarser than slide 50, Sea of Marmara]'. There is no indication that Andrussow collected the material, as is suggested in Adey & Lebednik 1967: 81]; **TRH C16-3271.**

[Anon.]; Mer Noire [= the Black Sea], [country uncertain]; [no other locality data]; [no habitat data]; [no date]; slide 11; ex herb. Thur. - Born. [PC]; [no pfa]; [Note: box and slide marked '*Lith. propontidis* ell. [= or] *lenormandi*?'. Slide also marked 'Ex herb. Bornet']; **TRH C16-3282.**

[Anon.]; [Turkey]; Marmarahavet [= Sea of Marmara], near the Isle of Marmara; collection depth: 25 fathoms; [no date]; slide 1626; comm. Andrussow; pfa: Printz 1929, pl. 13, fig. 19; [Note: **Lectotype** of *Lithothamnion propontidis* Foslie. Additional data — Woelkerling 1993: 178, and Woelkerling & Verheij 1995: 70, and Woelkerling 1998c: 360. Box marked 'sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Sikkertlig [= actually] *L. propontidis*'. There is no indication that Andrussow collected the material, as is suggested in Adey & Lebednik 1967: 81 and by Woelkerling 1993: 178]; **TRH C16-3272.**

[Anon.]; [Turkey]; Marmarahavet [= Sea of Marmara], near the Isle of Marmara; [no habitat data]; [no date]; slide 1625; comm. Andrussow; [no pfa]; [Note: box marked 'Cyst. sp. konc. [= cystocarpic sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C16-3273.**

rugosum, *Lithothamnion* [originally described as *Lithothamnion rugosum* (Foslie 1900f: 66), where Foslie retained it in publication]. **Holotype:** TRH, C16-3283 (see below).

Dusén; [Chile]; Ildlandet [= Tierra del Fuego Archipelago], Iola Desolucion [= Desolation Island], Puerto Angosto; ‘på ebbstrandens stenar [= at low tide mark on stones]’; 10.iv.1896; slides 371-372; collection number 44; pfa: Printz 1929, pl. 12, fig. 9; [Note: **Holotype** of *Lithothamnion rugosum* Foslie. Additional data — Mendoza 1988: 178 and Woelkerling 1993: 192. Collection was on loan during catalogue preparation. Entry prepared from photocopy of box lid. Information on slides and any annotation slips present was not accessible]; **TRH C16-3283.**

Paessler; [Chile] [but see Note]; Smith Channel [now Smyth Channel], Chacabuco; [no habitat data]; 1888; slide 593; ex Bot. Mus. Hamburg [**HBG**], 1901; [no pfa]; [Note: country of collection is presumed to be Chile on the basis that the Smyth Channel occurs in southern Chile in the Reina Adelaida Archipelago (just north of the Tierra del Fuego Archipelago) where von Paessler collected. Adey & Lebednik 1967: 81 mistakenly record the collection date as ‘1868’]; **TRH C16-3284.**

Paessler; Feuerland [= Tierra del Fuego Archipelago], [country uncertain]; [no other locality data]; [no habitat data]; 1893; [no slides]; ex Bot. Mus. Hamburg [**HBG**], 1901; [no pfa]; [Note: it is uncertain whether the country of collection is Chile or Argentina. Adey & Lebednik 1967: 81 omit mention of collector]; **TRH C16-3285.**

Paessler; Süd-Spitze Americas (Feuerland) [= south point of Americas Tierra del Fuego Archipelago], [country uncertain]; [no other locality data]; [no habitat data]; 1893; slide 592; ex Bot. Mus. Hamburg [**HBG**], 1901; [no pfa]; [Note: it is uncertain whether the country of collection is Chile or Argentina. Collection includes one specimen originally found in a box marked ‘*L. rugosum*’ and ‘Største Ildl. v. Paessler, 1893 = præp. 592 [= largest [specimen] Tierra del Fuego Archipelago by Paessler, 1893 = slide 592]’ and ‘Næstst. Observ. Øen = præp. 963 [= second largest [specimen] Observatory Island = slide 963]’ and ‘Mindste Observ. Øen, cyst. konc. [= smallest [specimen] Observatory Island, cystocarpic conceptacles]’. The specimen used for slide 592 has now been placed in a new box with a photocopy of the original box label. The Observatory Island specimens are retained in the original box, which is in C16-3287. Adey & Lebednik 1967: 81 omit mention of collector]; **TRH C16-3286.**

Skottsberg; [Argentina]; [Tierra del Fuego Archipelago], Observatorie øen [= Observatory Island]; collection depth: 25 metres, ‘sten, grus, skal [= on stone, gravel and shell]’; 6.i.1902; slides 936, 1591; Swedish South Polar Expedition 1901-1903, Observatory Island, station 1; pfa: Foslie 1907c, pl. 1, figs 14-15, and Printz 1929, pl. 12, figs 5-8; [Note: box marked ‘Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]’. Green tags with pfa information are attached to various specimens. Surface of one specimen marked ‘Fig. 21’ with ink, but specimen apparently is not depicted in Foslie 1907c or in Printz 1929. Collection includes a glass jar with fragments and a note marked ‘Observatorieøen [= Observatory Island], 6.i.1902’ and ‘*L. rugosum*’ and ‘St. [= station] 1’ and ‘Konc. [= conceptacles]’. Collection also includes two specimens in a box marked ‘*L. rugosum*’ and ‘Største Ildl. v. Paessler, 1893 = præp. 592 [= largest [specimen] Tierra del Fuego Archipelago by Paessler, 1893 = slide 592]’ and ‘Næstst. Observ. Øen = præp. 963 [= second largest [specimen] Observatory Island = slide 963]’ and ‘Mindste Observ. Øen, cyst. konc. [= smallest [specimen] Observatory Island, cystocarpic conceptacles]’. The specimen used for slide 592 has now been placed in a new box with a photocopy of the original box label and placed with C16-3286. The Observatory Island specimens are retained in the original box, which is part of C16-3287. A15-3287 also includes a two identical photographs housed in a separate envelope that shows some of the specimens present in **TRH**]; **TRH C16-3287.**

Willems & Rousson (as Bousson); Fuegia [= Tierra del Fuego Archipelago], [country uncertain]; [no other locality data]; [no habitat data]; 1892; slide 656; [ex] Herb. Mus. Paris

[PC]; [no pfa]; [Note: box marked '*L. glaciale* Heydr.' and 'cfr. [= cf.] Fosl. in Ber. D. bot. Ges.'. Collection originally identified as *L. glaciale* by Heydrich (1901a: 539) but re-identified by Foslie (1901d: 27) as *L. rugosum*). Slide marked '*L. glaciale?* = *L. rugosum?*' and 'Kanada? [= Canada?']. Both Heydrich (1901a: 539) and Foslie (on box) incorrectly list one collector as Bousson, while Adey & Lebednik 1967: 81 mistakenly list 'Børgesen' as the only collector. It is uncertain whether the country of collection is Chile or Argentina, but it definitely is not Canada]; **TRH C16-3289**.

[Anon.]; [Argentina]; Patagonia? [but see Note], [no other locality data, but see Note]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: data for geographic region/country are confusing. Patagonia refers to a region in Argentina but box also marked '(s. med ekspl. St. Barthélemy, Vestindien men vistn. feilagtig [= mixed with specimens St. Barthélemy, West Indies but probably incorrect])' and '(*Lithoph. discoideum* etc. andet ekspl. s. med. [= another specimen mixed with] *L. disc.*']. St. Barthélemy is part of the Lesser Antilles, one of the three island groups comprising the West Indies, along with the Greater Antilles and the Bahamas. Collection not included in Adey & Lebednik 1967]; **TRH C16-3290**.

rugosum, Lithothamnion (f. validum). See listing below for ***validum, Lithothamnion***

spissum, Lithothamnion [originally described as *Lithothamnion spissum* (Foslie 1907b: 19), but not mentioned in Foslie's subsequent publications]. **Lectotype**: TRH, C16-3291 (see below).

Yendo; Japan; Misaki; [no habitat data]; iv.1903; slides 834-835; [no other collection data]; pfa: Printz 1929, pl. 14, fig. 2; [Note: **Lectotype** of *Lithothamnion spissum* Foslie. Additional data — Woelkerling 1993: 205. Large round box incorrectly marked 'pr. [= slides] 834, 835, 836-837. Slides 836 & 837 belong to C16-3292 while slides 834 & 835 belong to the lectotype (C16-3291). Large round box contains a smaller box marked with collection data and also marked 'Præp. [= slides] 834-835']; **TRH C16-3291**.

Yendo; Japan; Misaki; [no habitat data]; iv.1903; slides 836-837; [no other collection data]; pfa: Printz 1929, pl. 14, fig. 3; [Note: box marked '*Lith. spissum delvis* [= in part]'. Collection includes fragments in a box marked with pfa information and also marked '*Lithoth. spissum* (og [= and] *Lithoph. okamurai*)' and 'præp. [= slide] 837'. Adey & Lebednik 1967: 82 mention pl.14 but not fig. 3]; **TRH C16-3292**.

Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. spissum?* (og [= and] *Lithoph. okamurai?*)'. Collection not included in Adey & Lebednik 1967]; **TRH C16-3293**.

superpositum, Lithothamnion [originally described as *Lithothamnion superpositum* (Foslie 1900a: 8), where Foslie retained it in publication]. **Holotype**: TRH, C16-3294 (see below).

Becker; [South Africa]; Kap d. gode haab [= Cape of Good Hope], Grahamstown; [no habitat data]; 1899; slide 345; comm. Dr Becker; pfa: Printz 1929, pl. 12, fig. 10; [Note: **Holotype** of *Lithothamnion superpositum* Foslie. Additional data — Woelkerling 1993: 218, Keats et al. 2000: 394, Harvey et al. 2003: 659. Annotation slip in box with locality and date data also marked 'Præp. [= slide] Anderss. 345' and '*L. n. sp.* [= new species]' and '*L. brachycladum superpositum*'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH C16-3294**.

tahiticum, Lithothamnion [originally described as *Lithothamnion japonicum* f. *tahitica* (Foslie 1907a: 8) but subsequently (Foslie 1908d: 8) raised to the rank of species, namely *Lithothamnion tahiticum*]. **Holotype**: PC, General Herbarium (Woelkerling 1998c: 349).

[Seurat]; [Tuamotu Archipelago]; Tearia; [no habitat data]; [no date]; slides 1415, 1449; [ex] Mus. Paris [PC], [comm.] P. Hariot, iv.1907, collection number 10; pfa: Printz 1929, pl. 14, fig. 5; [Note: **Part of holotype** of *Lithothamnion japonicum* f. *tahitica* Foslie. Additional data — Woelkerling 1993: 219 and Woelkerling 1998c: 349. Most of holotype is in PC (Woelkerling 1998c: 349). Box marked '*Lithoth. japonicum* f. *tahiticum*'. Box lid and slides marked 'Tahiti Tearia', but Tearia is part of the Tuamotu Archipelago within French Polynesia and not Tahiti (part of the Society Islands within French Polynesia) as indicated on box cover. Annotation slip in box marked 'Hypoth. cell. kortere end *japon.* [= hypothallial cells shorter than *japonicum*']. TRH collection includes additional box without material but with one annotation slip marked '9.III.1929' and 'Uttatt av denne eske Præp. No. 10 av *Lith. tahiticum*, i anl. Lån til Setchell, + Berkeley, Cal. [= taken out of this box slide 10 of *Lith. tahiticum* in relation to loan to Setchell, + Berkeley, California]' and a second slip marked 'D. Keats, tiny fragment removed for study'. Information on collector taken from Woelkerling 1998c: 349. Adey & Lebednik 1967: 80 mistakenly list 'Hariot' as the collector and 'iv.1907' as the collection date]; **TRH C16-3295**.

validum, *Lithothamnion* [originally described as *Lithothamnion rugosum* f. *validum* (Foslie 1901a: 4) but subsequently (Foslie 1906b: 10) raised to the rank of species, namely *Lithothamnion validum* and thereafter retained under that name by Foslie]. **Holotype:** TRH, C16-3296 (see below).

Hemphill; [United States]; California, San Diego; [no habitat data]; [no date]; slides 484, 1361; [comm.] Farlow, 1900, number X; pfa: Printz 1929, pl. 12, fig. 13; [Note: **Holotype** of *Lithothamnion rugosum* f. *validum* Foslie. Additional data — Woelkerling 1993: 232. Annotation slip in original box with collection data also imprinted with 'Herb. W.G. Farlow' [FH]. Original box and slide 484 marked '*L. rugosum* f. *valida validum*'. Collection includes three smaller boxes, one marked '484' (contains one fragment), one marked '*L. validum*' and 'California' and 'Farlow X' and 'Sp. konc. [= sporangial conceptacles]' (contains one fragment) and one unmarked box with seven very small fragments. Adey & Lebednik 1967: 82 mistakenly list 'Farlow' as collector and Farlow's collection number as 'XX']; **TRH C16-3296**.

versicolor, *Lithothamnion* [originally described as *Lithothamnion versicolor* (Foslie 1907a: 3), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, C16-3297 (see below).

Gabriel; Australia; Victoria, Port Phillip Heads; [no habitat data]; xii.1906; slides 1323-1324; [no other collection data]; pfa: Printz 1929, pl. 12, figs 1-2; [Note: **Holotype** of *Lithothamnion versicolor* Foslie. Additional data — Woelkerling 1993: 236, and Woelkerling & Harvey 1993: 600. Large round box marked '2 ekspl. [= two specimens] Lith. Monogr. pl. 12, fig. 1-2'. Collection includes two fragments in a small box (rediscovered during the present study) marked '*L. versicolor*' and 'Victoria, xii.1906' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C16-3297**.

Case C, Drawer 1

australe, *Lithothamnion* [first published as a nomen nudum (Foslie 1900l: 13, 1901d: 28). Then described and validly published as *Lithothamnion australe* (Foslie 1904b: 24), where Foslie retained it in publication]. **Lectotype:** TRH, C17-3298 (see below).

- [Diguët]; [Mexico]; Kalifornien [= California (the Gulf of California, not the State of California)]; [no habitat data]; [no date]; slides 86-87; comm. Hariot [material sent from **PC**]; pfa: Foslie 1895b, pl. 1 [unnumbered], figs 6-7; [Note: **Lectotype** of *Lithothamnion australe* Foslie. Additional data — Adey et al. 1982: 57 and Woelkerling 1993: 34 and Woelkerling 1998c: 330. Collector and locality data based on information in Woelkerling 1998. Box marked '*L. corall. f. australis*' and '= *L. australe* Fosl. f. *americana*'. *Lithothamnion australe* f. *americana* is a superfluous name for *Lithothamnion australe* f. *australe* (Woelkerling 1993: 25). Annotation slip with cell measurements also marked 'Kalifornien [= California]' and 'f. *americana*'. Slides also marked '*L. squarrulosum* f. *australis*' (see Woelkerling 1993: 207). Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1']; **TRH C17-3298.**
- Gardiner; Cargados Carajos, Indiske hav [= Indian Ocean]; [no other locality data]; collection depth: 30 fathoms; 29.viii.1905; slides 1279-1280; collection number B8; [no pfa]; [Note: larger round box marked 'Indiske hav [= Indian Ocean]'. Cargados Carajos is a dependency of Mauritius. Collection includes three smaller boxes, one (with fragments) marked 'Flerp. konc. [= several-pored conceptacles]', one (with one fragment) marked 'Præp. [= slide] 1279', and one (with one fragment) marked 'Præp. [= slide] 1280' and 'Sp. konc. [= sporangial conceptacles]'. Grouped with C17-3300 under one entry in Adey & Lebednik 1967: 82, who list the locality as 'Cargado Caragos']; **TRH C17-3299.**
- Gardiner; Cargados Carajos, Indiske hav [= Indian Ocean]; [no other locality data]; collection depth: 30 fathoms; 30.viii.1905; slide 1281; collection number B14; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Slide marked 'Indiske hav [= Indian Ocean]'. Cargados Carajos is a dependency of Mauritius. Grouped with C17-3299 under one entry in Adey & Lebednik 1967: 82, who list the locality as 'Cargado Caragos']; **TRH C17-3300.**
- Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 55 fathoms; viii.1905; slides 1286-1287; collection number C15 [a designated collection at Saya de Malha Bank (see Foslie 1907e: 93-98)]; [no pfa]; [Note: box marked 'Analyse nr. 17'. Box also marked 'Indiske hav [= Indian Ocean]'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean. Collection includes four small boxes, one (with fragments) marked 'f. *minutula?*', one (with fragments) marked 'Konc. [= conceptacles]', one (with one fragment) marked '= Præp. [= slide] 1286', and one (with one fragment) marked '= Præp. [= slide] 1287'. Grouped with C17-3302 under one entry in Adey & Lebednik 1967: 82]; **TRH C17-3301.**
- Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 55 fathoms; viii.1905; slides 1288-1290; collection number C15 [a designated collection at Saya de Malha Bank (see Foslie 1907e: 93-98)]; [no pfa]; [Note: box marked '*Lithoth. australe* forma (delvis [= in part] *indicum?*)'. Box also marked 'Indiske hav [= Indian Ocean]'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean. Collection includes three small boxes, one (with two fragments) marked 'Tømte konc. [= empty conceptacles]', one (with one fragment) marked '= Præp. [= slide] 1288', and one (with one fragment) marked '= Præp. [= slide] 1290'. Grouped with C17-3301 under one entry in Adey & Lebednik 1967: 82]; **TRH C17-3302.**
- [Weber-van Bosse]; [Indonesia]; Paternoster Island, Sailus Besar; [no habitat data]; 17-18.ii.1900; one slide labelled S.E. 445 (Siboga Expedition collection number); Siboga Expedition, station 315, collection 445; [no pfa]; [Note: slide marked '*Lith. australe* forma?' and 'NB jfr. konc.! [= NB cf. conceptacles!]']; **TRH C17-3303.**
- [Anon.]; Samoa [= Samoa Islands] [see Note]; [no other locality data]; [no habitat data]; [no date]; slide 585; ex Bot. Mus. Hamburg [**HBG**]; [no pfa]; [Note: box marked '*L. australe* Fosl. f. (iallf. delvis [= at least partly])' and 'Koncept. [= conceptacles]'. The Samoa Islands include the nation of Samoa and American Samoa (a dependency of the United States)]; **TRH C17-3304.**

australe, *Lithothamnion* (f. *brachiata*) [originally described as *Lithothamnion australe* f. *brachiata* (Foslie 1904b: 24), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 82 under species without mention of forma]. **Lectotype: L**, 991.239-221 (Verheij & Woelkerling 1992: 276).

- [Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; [no slides]; Siboga Expedition, station 99, collection 1241; pfa: Foslie 1904b, pl. 2, fig. 31; [Note: box marked '2 uden nr. [= 2 without number]' and 'Liden gren konc. af. [= small branch conceptacles of] S.E. 1241, pl. II, fig. 31'. Collection not included in Adey & Lebednik 1967]; **TRH C17-3305**.
- [Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; [no slides]; Siboga Expedition, station 99, collection 1244; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C17-3306**.
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15.-17.i.1900; [no slides]; Siboga Expedition, station 282, collection 576; [no pfa]; [Note: detailed locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH C17-3307**.
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15.-17.i.1900; one slide labelled S.E. 571 (Siboga Expedition collection number); Siboga Expedition, station 282, collection 571; pfa: Foslie 1904b, pl. 2, fig. 35; [Note: collection consists only of one slide (specimen is in L). Slide S.E. 571 is also marked 'Nusa Besi - N.E. point Timor' and '(pl. II, fig. 35)'. Detailed locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH C17-3288**.
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi and the north east point of Timor]; [no habitat data]; 15-17.i.1900; one slide labelled S.E. 604 (Siboga Expedition collection number); Siboga Expedition, station 282, collection 604; [no pfa]; [Note: precise locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH C17-3308**.
- [Weber-van Bosse]; [Indonesia]; Rotti Island; [no habitat data]; 27-29.i.1900; [no slides]; Siboga Expedition, station 299, collection 1079 'delvis [= in part]'; [no pfa]; [Note: Adey & Lebednik 1967: 82 list the collection locality as 'Poth Is.']; **TRH C17-3309**.
- [Weber-van Bosse]; [Indonesia]; Samau Island, Haingsisi; [no habitat data]; 2.-5.ii.1900; [no slides]; Siboga Expedition, station 303, collection 868 [in part]; pfa: Foslie 1904b, pl. 2, fig. 25; [Note: **Lectotype fragment** of *Lithothamnion australe* f. *brachiata* Foslie. Additional data — Verheij & Woelkerling 1992: 276 and Woelkerling 1993: 41. Main part of lectotype is in L]; **TRH C17-3310**.
- [Weber-van Bosse]; [Indonesia]; [Samau Island], Haingsisi; [no habitat data]; 2.-5.ii.1900; [no slides]; Siboga Expedition, station 303, collection 867; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *brachiata* Foslie. Additional data — Verheij & Woelkerling 1992: 276 and Woelkerling 1993: 41]; **TRH C17-3311**.
- [Weber-van Bosse]; [Indonesia]; Samau Island, Haingsisi; [no habitat data]; 2.-5.ii.1900; [no slides]; Siboga Expedition, station 303, collection 876 'delvis [= in part]'; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *brachiata* Foslie. Additional data — Verheij & Woelkerling 1992: 276 and Woelkerling 1993: 41]; **TRH C17-3312**.
- [Weber-van Bosse]; [Indonesia]; Samau Island, Haingsisi; [no habitat data]; 2.-5.ii.1900; one slide labelled S.E. 864 (Siboga Expedition collection number); Siboga Expedition, station 303, collection 864; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *brachiata* Foslie. Additional data — Verheij & Woelkerling 1992: 276 and Woelkerling 1993: 41. **TRH** collection represented only by slide (specimen is in L). Collection not included in Adey & Lebednik 1967]; **TRH C17-3313**.
- [Weber-van Bosse]; [Indonesia]; Samau Island, Haingsisi; [no habitat data]; 2.-5.ii.1900; one slide labelled S.E. 875 (Siboga Expedition collection number); Siboga Expedition, station 303, collection 875; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *brachiata* Foslie. Additional data — Verheij & Woelkerling 1992: 276 and Woelkerling 1993: 41.

TRH collection represented only by slide (specimen in L). Collection not included in Adey & Lebednik 1967]; **TRH C17-3314**.

australe, *Lithothamnion* (f. *minutula*) [originally described as *Lithothamnion australe* f. *minutula* (Foslie 1904b: 24), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 82 under species without mention of forma]. **Lectotype: L**, 991.239-231 (Verheij & Woelkerling 1992: 281).

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pulu Tongkil; [no habitat data]; 5.-6.vii.1899; one slide labelled S.E. 1203a (Siboga Expedition collection number); Siboga Expedition, station 109, collection 1203a; [no pfa]; [Note: collection includes three original boxes and one slide housed in a newer brown box. One original box contains one fragment and is marked '*L. australe* f. *minutula*' and 'S.E. stat. 109, nr. 1203a' and 'Sp. konc. [= sporangial conceptacles]'. Second original box contains two fragments and is marked '*L. australe* f. *minutula*' and 'Siboga Exp. 1203a, stat. 109' and 'Pulu Tongkil, Sulu Archipelago' and '5.-6.vii.1899' and 'Præp. [= slide]'. Third original box contains 13 fragments and is marked '*L. australe* f. *minutula*' and 'Sib. Exp. 1203a, stat. 109' and 'Pulu Tongkil, Sulu Arch.' and '5.-6.vii.1899'. One annotation slip in third box marked 'Sp. konc. [= sporangial conceptacles] 200-400µ'. Second slip contains cell measurements for slide 'S.E. 1203a'. Adey & Lebednik 1967: 82 mistakenly list 'N. Ubian, 28.-30.vi.1899, Siboga Expedition, station 99' for collection 1203a]; **TRH C17-3315**.

[Weber-van Bosse]; [Indonesia]; Kei Islands, Tual [Anchorage]; [no habitat data]; 12.-16.xii.1899; one slide labelled S.E. 673 (Siboga Expedition collection number); Siboga Expedition, station 258, collection 673; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *minutula* Foslie. Additional data — Verheij & Woelkerling 1992: 281 and Woelkerling 1993: 150. Collection consists of one slide and material in two small boxes with the same collection data. One small box also marked 'Præp. [= slide]']; **TRH C17-3316**.

australe, *Lithothamnion* (f. *tualensis*) [originally described as *Lithothamnion australe* f. *tualensis* (Foslie 1904b: 24), where Foslie retained it in publication. Collections listed in Adey & Lebednik 1967: 82 under species without mention of forma]. **Lectotype: TRH**, C17-3317 (see below).

[Weber-van Bosse]; [Indonesia]; Kei Islands, Tual Anchorage; [no habitat data]; 11.xii.1899; one slide labelled S.E. 668 (Siboga Expedition collection number); Siboga Expedition, station 258, collection 668; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *tualensis* Foslie. Additional data — Verheij & Woelkerling 1992: 289 and Woelkerling 1993: 226. Collection includes one slide, part of specimen 668 (the remaining part is in L) (see Verheij & Woelkerling 1992: 289), and a small fragment in an original box marked 'Præp. 670 – størst [= slide 670 – largest]' and '*L. australe* f. *tualensis*' and 'Tual anchorage, Kei Isl.' and '11.xii.1899' and 'Mindste præp. 668 [= smallest slide 668]'. The fragment in the box belongs to A17-3317. Specimen 670, originally in the same box as specimen 668 has been removed and is now treated as a distinct collection (C17-3318)]; **TRH C17-3317**.

[Weber-van Bosse]; [Indonesia]; Kei Islands, Tual Anchorage; [no habitat data]; 11.xii.1899; one slide labelled S.E. 670 (Siboga Expedition collection number); Siboga Expedition, station 258, collection 670; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *tualensis* Foslie. Additional data — Verheij & Woelkerling 1992: 289 and Woelkerling 1993: 226. Collection consists of one slide and part of specimen 670 (the remaining part is in L) (see Verheij & Woelkerling 1992: 289). Specimen 670, originally in the same box as specimen 668 (C17-3317) has been removed from C17-3317 and is now treated as a distinct collection (C17-3318)]; **TRH C17-3318**.

[Weber-van Bosse]; [Indonesia]; Kei Islands, Tual [Anchorage]; [no habitat data]; 11.xii.1899; [no slides]; Siboga Expedition, station 258, collection 675a; [no pfa]; [Note: **Lectotype** of

- Lithothamnion australe* f. *tualensis* Foslie. Additional data — Verheij & Woelkerling 1992: 289 and Woelkerling 1993: 226. Box marked 'Konc. [= conceptacles]'; **TRH C17-3320**. [Weber-van Bosse]; [Indonesia]; Kei Islands, Tual Anchorage; [no habitat data]; 11.xii.1899; one slide labelled S.E. 676x (Siboga Expedition collection number); Siboga Expedition, station 258, collection 676x; [no pfa]; [Note: **Isolectotype** of *Lithothamnion australe* f. *tualensis* Foslie. Additional data — Verheij & Woelkerling 1992: 289 and Woelkerling 1993: 226. Collection consists of one slide and part of specimen 676 (the remaining part is in L) (see Verheij & Woelkerling 1992: 289). Box containing part of specimen 676 was unknown to Verheij & Woelkerling (1992), but was rediscovered during the present study and is marked 'Koncept. [= conceptacles]']; **TRH C17-3321**.
- [Weber-van Bosse]; [Indonesia]; Kei Islands, Tual [Anchorage]; [no habitat data]; 12.-16.xii.1899; one slide labelled S.E. 672a (Siboga Expedition collection number); Siboga Expedition, station 258, collection 672a; [no pfa]; [Note: top of box marked '*L. australe* f. *ubiana*—*tualensis*?'. Bottom of box and slide marked '*L. australe* f. *ubiana* – *tualensis*?']; **TRH C17-3319**.

australe, Lithothamnion (f. ubiana) [originally described as *Lithothamnion australe* f. *ubiana* (Foslie 1904b: 24), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 82 under species without mention of forma]. **Lectotype: L**, 991.239-242 (Verheij & Woelkerling 1992: 289).

- [Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.1899; one slide labelled S.E. 214 (Siboga Expedition collection number); Siboga Expedition, station 240, collection 214; [no pfa]; [Note: slide marked '*L. australe* f. *ubiana*?'. Adey & Lebednik 1967: 82 omit mention of slide]; **TRH C17-3322**.
- [Weber-van Bosse]; [Indonesia]; Celebes, Dongala, Palos Bay; [no habitat data]; 18.-19.vi.1899; [no slides]; Siboga Expedition, station 86, collection 776; [no pfa]; [no notes]; **TRH C17-3323**.
- [Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; slide 1628 and one slide labelled S.E. 1219 (Siboga Expedition collection number); Siboga Expedition, station 99, collection 1219; [no pfa]; [no notes]; **TRH C17-3324**.
- [Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; one slide labelled S.E. 1225 (Siboga Expedition collection number); Siboga Expedition, station 99, collection 1225; pfa: Foslie 1904b, pl. 2, fig. 21; [Note: collection consists only of one slide (specimen in L). Slide marked with pfa data. Collection (slide) not listed in Adey & Lebednik 1967]; **TRH C17-3325**.
- [Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Kapul Island; [no habitat data]; 5.-6.vii.1899; one slide labelled S.E. 984 (Siboga Expedition collection number); Siboga Expedition, station 106, collection 984; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Slide incorrectly marked 'S.E. 984, stat. 109'. According to information in a Notebook (unpublished) from Weber-van Bosse lodged at TRH, S.E. 984 is from station 106. Adey & Lebednik 1967: 82 also mistakenly list the station as '109' and the collection locality as 'Pulu Tongkil']; **TRH C17-3326**.
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 15.-17.i.1900; two slides, both labelled S.E. 609 (Siboga Expedition collection number); Siboga Expedition, station 282, collection 609; [no pfa]; [Note: precise locality data taken from Weber 1902, *Liste des Stations*, p. 15. Annotation slip in box marked 'Ingen konc. [= without conceptacles]' and '*indicum*?'. One slide marked 'Nusa Besi – N.E. point Timor']; **TRH C17-3327**.

montereyicum, Lithothamnion [originally described as *Lithothamnion montereyicum* (Foslie 1905c: 43), but not mentioned in Foslie's subsequent publications]. **Holotype: TRH, C17-3328** (see below).

Johnson, H.P.; [United States]; California, Monterey; collection depth: 12 fathoms; vii.1897; slides 1176-1177, 1642; ex Herb. W.A. Setchell [UC], comm. Setchell, collection number 2064; pfa: Printz 1929, pl. 17, figs 28-29; [Note: **Holotype** of *Lithothamnion montereyicum* Foslie. Additional data — Woelkerling 1993: 153. Pasteboard slip with collection marked 'Ex Herb. William A. Setchell, Univ. of California, Berkeley, Calif.'. Collection includes fragments in a small box marked 'Lith. Monogr., pl. 17, f. 28-29 [= Printz 1929, pl. 17, figs 28-29]'. Collection also includes a photocopy of the letter concerning this collection that was sent to Foslie by Setchell]; **TRH C17-3328**.

novaezeelandiae, *Lithothamnion* [originally described as *Lithothamnion novaezeelandiae* (Heydrich 1897a: 63), but Foslie (Foslie 1908c: 270) suggested that this taxon was poorly known but that Heydrich's material involved two species, one of which possibly was *L. patena*. Woelkerling & Nelson 2004: 83 considered the status and disposition of *Lithothamnion novaezeelandiae* to be uncertain]. **Type:** apparently not designated (Woelkerling & Nelson 2004: 83), and original material probably destroyed (Stafleu & Cowan 1979: 187). **TRH**, however, has one syntype (C17-3329)

[Anon.]; New Zealand; Bay of Islands; [no habitat data]; [no date]; slides 88-89, 1629; herb. F. Heydrich [original algal herbarium destroyed, according to Stafleu & Cowan 1979: 187], number 1; pfa: Printz 1929, pl. 17, figs 26-27; [Note: **Syntype** of *Lithothamnion novaezeelandiae* Heydrich. Additional data — Woelkerling 1993: 159, who incorrectly spelled the specific epithet as '*novae-zeelandiae*'. Box marked '*L. fasciculatum* forma *nov.?*' and '*L. nova-zeelandiae* Heydr. = *L. australe* Fosl. f. N.Z.'. Further information from Foslie concerning this collection is on a piece of paper with notes from other collections and is in an envelope in Drawer C1 marked 'Loose notes found in Drawer C1']; **TRH C17-3329**.

Case C, Drawer 18

During the present study, some loose photographs were found in Drawer C18 that could not be matched to any collection. These have been placed in an envelope marked 'Loose photographs found in Drawer C18 that could not be matched to particular specimens'.

aucklandicum, *Lithothamnion* [originally described as *Lithothamnion fumigatum* f. *aucklandicum* (Foslie 1905e: 16, as *aucklandica*) but subsequently (Foslie 1907b: 18) raised to the rank of species, namely *Lithothamnion aucklandicum*]. **Holotype:** TRH, C18-3330 (see below).

[Anon.]; Auckland Islands; [no other locality data]; [no habitat data]; iii.1904; slides 932-933; British [National] Antarctic Expedition *Discovery*; pfa: Printz 1929, pl. 4, fig. 17; [Note: **Holotype** of *Lithothamnion fumigatum* f. *aucklandicum* Foslie. Additional data — Woelkerling 1993: 33, and Woelkerling & Harvey 1993: 586. Collection consists of a larger original round box containing one stone with attached corallines and a smaller original round box (with several very small fragments) inside a newer brown box. Both boxes marked with the same collection data and with '*L. (or Lith.) fumigatum* f. *aucklandicum*'. Larger box also marked 'Fotogr. sp. [= photographed sporangia]']; **TRH C18-3330**.

bornetii, *Lithothamnion* [originally described as *Lithothamnion bornetii* (Foslie 1899c: 9), where Foslie retained it in publication]. **Holotype:** divided between PC, Thuret - Bornet Herbarium, and TRH (C18-3331) (Woelkerling 1998c: 332).

Bornet; [France]; Cherbourg; [no habitat data]; 30.xi.1853; slide 192; ex herb. Bornet – Thuret **PC**; [no pfa]; [Note: **Part of holotype** of *Lithothamnion bornetii* Foslie. Additional data — Chamberlain 1990: 180-181, Woelkerling 1993: 41, Chamberlain & Irvine 1994b: 169, and Woelkerling 1998c: 332. Holotype divided between **PC** and **TRH** (Woelkerling 1998c: 332). Box marked 'Text. fig. hab. + sp. [= text figure habit + sporangia]'. Annotation slip in box marked 'Præp. [= slide] Andersss. 192' and 'Herb. Kjellm.' and '*Lith. bornetii*'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Slide incorrectly dated '30.x.1853' [see Woelkerling 1998c: 332 for date on **PC** material]. Adey & Lebednik 1967: 83 omitted mention of collector and of slide, while Woelkerling (1993, 1998) mistakenly listed the slide number as '172']; **TRH C18-3331**.

discrepans, Lithothamnion [originally described as *Lithothamnion discrepans* (Foslie 1907b: 8), but not mentioned in Foslie's subsequent publications]. **Lectotype: TRH, C18-3332** (see below).

Becker; [South Africa]; Kap. d. gode haab [= Cape of Good Hope], Grahamstown; [no habitat data]; v.1899; slides 346, 1556; comm. Dr H. Becker; pfa: Printz 1929, pl. 5, fig. 3; [Note: **Lectotype** of *Lithothamnion discrepans* Foslie. Additional data — Woelkerling 1993: 76 (who mistakenly refers to the collection as the holotype, unaware of a second collection (C18-3333) not included in Adey & Lebednik 1967: 83), and Chamberlain & Keats 1995: 141. Collection includes a large round original box that houses a small round box, a small quadratic box and a packet. Box marked '*Lith. discrepans* (ialf. delvis - muligens ogsaa [= at least partly - probably also] *Lithoph. marlothii*)' and 'Sp. konc. 300-400µ fra overfl. [= sporangial conceptacles 300-400µ from the surface]' and 'Fotogr. sp. [= photographed sporangia]'. Becker is presumed to be the collector based on information in the species protologue (Foslie 1907b: 8). Both small boxes are unmarked and contain fragments. Packet contains one fragment and is marked '*L. discrepans*' and 'Foto. nr. 45 [= photograph number 45]' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C18-3332**.

Becker; [South Africa]; Kap. d. gode haab [= Cape of Good Hope], Grahamstown; [no habitat data]; v.1899; [no slides]; comm. Dr H. Becker; [no pfa]; [Note: box marked '*Lith. discrepans* (og sands. delvis [= and in part probably] *Lithoph. marlothii*)'. Relevant collection of *Lithophyllum marlothii* is A4-194. Becker is presumed to be the collector based on information in the species protologue (Foslie 1907b: 8). Collection not included in Adey & Lebednik 1967, but subsequently alluded to by Adey 1970b: 23]; **TRH C18-3333**.

dissidens, Lithothamnion [originally described as *Lithothamnion repandum* f. *dissidens* (Foslie 1907a: 3), but subsequently (Foslie 1907b: 6) raised to the rank of species, namely *Lithothamnion dissidens*]. **Holotype: TRH, C18-3334** (see below).

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa; [no habitat data]; 1899; slides 1374 [broken], 1375, 1548 [broken]; [no other collection data]; pfa: Printz 1929, pl. 4, fig. 3; [Note: **Holotype** of *Lithothamnion repandum* f. *dissidens* Foslie. Additional data — Woelkerling 1993: 77, and Wilks & Woelkerling 1994: 195. Collection includes a large original round box that houses a medium-sized original round box, a small original round box and an original packet. Large round box marked '*Lithoth. repandum* f. *dissidens*' and 'Fotogr. sp. [= photographed sporangia]'. Medium-sized round box contains one specimen and is marked '*Lithoth. repandum* f.? [difficult to see, the text is crossed out] *dissidens*?' and 'Præp. [= slide] 1374' [first marked 1074, the number '0' is written over with '3']. Annotation slip in medium-sized box marked 'Høie enp. konc. [= tall uniporate (enporede) conceptacles] 300-400 ved [= at] x' and 'Præp. [= slide] 1374'. Small box contains fragments and is marked 'Koncept. af store ekspl. [= conceptacles of large specimen]'. Packet contains one fragment and is marked '*L. dissidens*' and 'Foto. nr. 34 [= photograph number 34]' and 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967: 83 omit mention of slides '1374' and '1548']; **TRH C18-3334**.

ectocarpon, *Lithothamnion* [originally described as *Lithothamnion ectocarpon* (Foslie 1907b: 11), where Foslie retained it in publication]. **Lectotype:** TRH, C18-3335 (see below).

Weber-van Bosse; Afrika [= Africa], [Sénégal]; Cape Verde [= Cape Verde], Cape Blanco; [no habitat data]; 29.xii.1895; slides 869, 1564; [additional collection data: the name 'Cape Verde' also appears on the boxes but is not mentioned in protologue]; pfa: Printz 1929, pl. 8, fig. 1; [Note: **Lectotype** of *Lithothamnion ectocarpon* Foslie. Additional data — Woelkerling 1993: 82, Woelkerling & Verheij 1995: 51. Collection includes two original round boxes housed in a newer brown box. Both boxes marked with same collection data. Larger box contains one fragment and also marked with pfa data and with '(Brudstk. af ret. ekspl. [= fragment of returned specimen])' and '(s. med [= mixed with] *Mastoph.* (*Lithopor.*) som udtaget [= which is taken out])' and with 'Præp. 1557 og 1564 [= slides 1557 and 1564]'. Annotation slip in larger box marked '*L. ectoc.*' and 'Præp. 1557 blandt [= slide 1557 among] *M. conjuncta*'. Slide 1557 belongs to the lectotype of *Mastophora conjuncta* (A1-23), which was removed by Foslie from C18-3335. Slide 1564 is marked 'Cap Blanco, Vest-Afrika [= West-Africa]'. Smaller box contains three fragments and also marked 'Præp. [= slide] 869'. Annotation slip in smaller box marked 'Del af ekspl. under *G. mamill.* [= part of specimen below *G. mamill.*]. Slide 869 is also marked 'Afrika [= Africa]' and '*Lith. ectocarpon?* (delvis) og [= (in part) and] *G. mamill.* f. *micr.*'. It is uncertain whether Cape Blanco refers to a part of Cape Verde or to Cap Blanc in Mauritania]; **TRH C18-3335.**

fumigatum, *Lithothamnion* (f. *aucklandicum*). See listing above for ***aucklandicum, Lithothamnion***

granuliferum, *Lithothamnion* [originally described as *Lithothamnion granuliferum* (Foslie 1905e: 16), where Foslie retained it in publication]. **Holotype:** TRH, C18-3336 (see below).

Skottsberg; [Argentina]; [Tierra del Fuego Archipelago], Observatorietøen [= Observatory Island] [but see Note]; collection depth: 25 metres, [on] stones, gravel and shells [but see Note]; 6.i.1902; slides 934, 1189; [Swedish South Polar Expedition 1901-1903], Observatory Island, station 1; pfa: Printz 1929, pl. 4, figs 15-16; [Note: **Holotype** of *Lithothamnion granuliferum* Foslie. Additional data — Mendoza 1988: 180 and Woelkerling 1993: 112. Collection includes a large round original box that houses two smaller boxes. One box contains very small fragments and is marked '= præp. [= slide] 1189 ved [= at] xx'. Second small box contains fragments and is marked '*L. granuliferum*' and 'Observatorietøen [= Observatory Island]' and '6.i.1902' and '(= præp. [= slide] 934)' and 'Sp. konc. [= sporangial conceptacles]'. Both slides marked 'paa [= on] *Lithoph. decipiens*' [different from habit data on box]. Relevant collection is probably A2-114, originally identified as *Lithophyllum decipiens* f. *subantarcticum*. Slide 1189 also marked 'Observatorietøen nær Staten ø [= Observatory Island near Staten Island]'. A collection identified as *Lithothamnion magellanicum* (B2-1710) apparently was separated out by Foslie from the holotype material of *L. granuliferum*. Collection locality is somewhat uncertain because box is marked 'Isle de los Estados [= Staten Island], Islei del Anonuevo [now Ano Nuevo (Chile)], Isle del Observatorio [= Observatory Island] in rupibus maritimis'. Box also marked '*Lithoth. granuliferum* (og [= and] *Lithoph. discoidens*)' and 'Fotogr. sp. største ekspl. [= photographed sporangia largest specimen]'; **TRH C18-3336.**

lenormandii, *Lithothamnion* (f. *australis*). See listing below for ***repandum, Lithothamnion***

mediocre, *Lithophyllum* [originally described as *Lithophyllum zostericum* f. *mediocris* (Foslie 1900h: 5) but subsequently (Foslie 1907b: 26) raised to the rank of species, namely *Lithothamnion mediocre*]. **Holotype:** TRH, C18-3337 (see below).

Anderson, [C.L.]; [United States]; California, Santa Cruz; [no habitat data]; x.1876; [no slides]; ex herb. Bornet [PC]; [no pfa]; [Note: **Holotype** of *Lithophyllum zostericum* f. *mediocris* Foslie. Box with collection data also marked 'Herb. W.G. Farlow, *Melob. amplexifrons*'. Annotation slip in box marked 'Tømte konc.? [= empty conceptacles?]']. Collection rediscovered during present study in Drawer B1. Listed as missing by Woelkerling 1993: 146. Collection not included in Adey & Lebednik 1967; **TRH C18-3337**.

Gardner; Amerika [= America] [meaning United States]; Washington, Whidbey Island; on *Phyllospadix*; 1901; [no slides]; Algae of Puget Sound, number 271, distributed by Setchell and Gardner; [no pfa]; [Note: box marked 'ung [= young] ~~*M. zostericola* f. *mediocris* L. *mediocre*~~ (steril [= sterile])'. One annotation slip in box with collection data also is marked '*Lithophyllum zostericum* Foslie var. *mediocris* Foslie?' and 'N.L.G. [= N.L. Gardner]'. Second annotation slip marked 'Enp. konc. [= uniporate (enporede) conceptacles]'. Third annotation slip marked 'Skorpen og konc. ligner nr. 299 [= the crust and conceptacles look like number 299]'. 'Number 299' is collection C18-3344; **TRH C18-3343**.

Gibbs; [United States]; California, Monterey Bay; on *Phyllospadix*; 10.i.1899; slide 1346 and one unnumbered slide; R.E. Gibbs, collection number 4; [no pfa]; [Note: box marked '*Melob. punctata* Setch. & Gibbs mscr.' and '= ~~*M. zostericola* Fosl. f. *mediocris* L. *mediocre*~~'. One annotation slip in box marked '#4, R.E.G. [= R.E. Gibbs]'. Second annotation slip marked '= *M. amplexifrons* Farlow non Harvey!'. Collection listed in Adey & Lebednik 1967: 50 in Drawer B1 under *Melobesia punctata*; **TRH C18-3346**.

Nichols; [United States]; California, Marin County, Duxbury Reef; [no habitat data]; 16.xi.1906; one slide labelled 32e/12; Nichols collection number 32; [no pfa]; [Note: annotation slip with hand-written locality and date data is also marked 'No. 32' and 'See slide 32e/12' by hand and also is imprinted with 'Herbarium of M.B. Nichols'. Adey & Lebednik 1967: 83 omit mention of slide]; **TRH C18-3339**.

Nichols; [United States]; California, Monterey Bay, Cypress Point; [no habitat data]; 14.xii.1906; two slides, one labelled 'nr. 127' and one labelled 127a/5; Nichols collection 127; [no pfa]; [Note: collection includes an older, green quadratic box and an original round box. Annotation slip in quadratic box with hand-written locality and date data is also marked 'No. 127' and 'See slide 127a/5' by hand, and also is imprinted with 'Herbarium of M.B. Nichols'. Small round box contains two fragments and is marked with collection data and with 'Hab., sp. & cyst. fotogr. [= habitat, sporangia & cystocarpic photographed]'. Annotation slip in small box with cell measurements also marked 'Præp. [= slide] nr. 127' and '*L. mediocre*'. Adey & Lebednik 1967: 83 omit mention of slides]; **TRH C18-3341**.

Nichols; [United States]; California, San Francisco; [no habitat data]; 18.x.1906; slide 15L/3 [missing]; Nichols collection number 15; [no pfa]; [Note: box marked 'Udt. cyst. fotogr. – Præp. 15L/3 [= taken out cystocarpic for photography – slide 15L/3]'. One annotation slip with hand-written locality and date data is also marked 'No. 15' and 'See slide 15L/3' by hand and also is imprinted with 'Herbarium of M.B. Nichols'. Second annotation slip marked 'Gode sporer i snittet [= fine spores in the cut]']; **TRH C18-3342**.

Saunders; [United States]; California, Pacific Grove; on *Phyllospadix*; vii.1896; slide 1480; comm. W.G. Farlow (1907), number 3; [no pfa]; [Note: collection housed in a packet marked 'Saunders' and '~~*Lith. amplexifrons* f. *mediocris* *mediocre*~~'. Annotation slip in packet marked 'En & flerp. konc.? [= uniporate & several-pored conceptacles?]']. Slide marked '~~*Lithoph. zostericum* f. *mediocris* *mediocre*~~' and 'leg. Saunders' and 'comm. Farlow (1907), nr. 3'. Adey & Lebednik 1967: 83 mistakenly list the collector as 'Laurelers']; **TRH C18-3338**.

Setchell; [United States]; California, Marin County, Duxbury Reef; on leaves of *Phyllospadix*; 16.xi.1895; slide 1345; [*Phycotheca Boreali Americana*] collection number 299; [no pfa];

[Note: collection housed in a packet marked with collection data and with '*Phyc. amer.*' and '*Melob. amplexifrons* Harv.' and '= *L. tenuis mediocre* Fosl.' and 'Harv. *Ner. Austr.* p. 110 *Farl. Proc. Am. Ac.* Vol. XII, p. 239, 1877' and 'Udt. af exsicc. ngl. igjen. [= taken out of exsiccata some left]'. The exsiccate from which the specimen was removed is *Phycotheca Boreali Americana* (see Sayre 1969: 66-68). Material with the same data was included as specimen 299 and identified as *Melobesia amplexifrons*. 'Harv. *Ner. Austr.* p. 110' refers to Harvey 1849 and , *Farl. Proc. Am. Ac.* Vol. XII, p. 239, 1877' refers to Farlow 1877]; **TRH C18-3344**.

Yendo; [Canada] [box marked 'Amerika [= America]'; [British Columbia], Vancouver Island, Port Renfrew (Port San Juan); 'paa [= on] *Phyllospadix*'; vi.-vii.1901; slide 1347; [no other collection data]; [no pfa]; [Note: box marked '*M. zostericola* Fosl. *L. mediocre*']; **TRH C18-3345**.

phymatodeum, Lithothamnion [originally described as *Lithothamnion phymatodeum* (Foslie 1902a: 3), where Foslie retained it in publication]. **Holotype:** TRH, C18-3347 (see below).

Gardner; Amerika [= America] [meaning United States]; Washington, Whidbey Island; on rocks, upper littoral zone [but see Note]; vii.1901; slide 809; *Algae of Puget Sound*, number 653, distributed by Setchell & Gardner, and comm. Setchell & Gardner; pfa: Printz 1929, pl. 4, figs 10-11; [Note: **Holotype** of *Lithothamnion phymatodeum* Foslie. Additional data — Woelkerling 1993: 172. An isotype in **UC (UC, 745685)** was mistakenly termed the lectotype by Steneck & Paine (1986: 231). Box marked 'Fotogr. sp. [= photographed sporangia]'. Annotation slip in box with collection data also marked 'on rocks, upper sublittoral zone' [not the upper littoral zone as marked on box lid] and the initials 'N.L.G. [= N.L. Gardner]' [the collector]. Information on collector taken from Mason (1953: 327). Collection includes a small empty packet marked 'Puget Sound' and 'nr. 653' and '*L. phymatodeum*' and 'Whidbey Island' and 'Foto. nr. 38 [= photograph number 38]' and 'Sp. konc. [= sporangia conceptacles]']; **TRH C18-3347**.

Saunders; [United States]; California, Pacific Grove; [no habitat data]; vii.1895; slide 1533; Saunders collection number 436b; [no pfa]; [Note: box marked '*Lithoth. californicum phymatodeum?*']; **TRH C18-3348**.

Yendo; [Canada] [written as Nordv. Amerika [= north-west America] on box]; [British Columbia], Vancouver Island, Port Renfrew (Port San Juan); [no habitat data]; vi.-vii.1901; slide 726; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. phymatodeum* f.' and '2 største med konc. [= two largest with conceptacles]'. Annotation slip in box marked 'nær *phymatod.* men cell. mindre [= close to *phymatod.* but cells smaller]']; **TRH C18-3349**.

phymatodeum, Lithothamnion (f. aquilonia) [originally described as *Lithothamnion phymatodeum* f. *aquilonia* (Foslie 1907a: 4), but not mentioned in Foslie's subsequent publications. Collection listed in Adey & Lebednik 1967: 83 under species without mention of forma]. **Holotype:** TRH, C18-3350 (see below).

Gardner; [United States]; Washington, Whidbey Island, Fort Casey; on holdfast of *Laminaria*; 18.vi.1901; slides 1447-1448; *Algae of Puget Sound*, number 652, distributed by Setchell and Gardner; pfa: Printz 1929, pl. 4, fig. 12; [Note: **Holotype** of *Lithothamnion phymatodeum* f. *aquilonia* Foslie. Additional data — Woelkerling 1993: 30 and Athanasiadis et al. 2004: 138. One annotation slip in box marked '18.vi.1901' and 'N.L.G. [= N.L. Gardner]'. Second annotation slip marked '*Mesophyllum vancouveriense* (Foslie) Steneck & Paine' and 'A. Athanasiadis 21.x.2001 Göteborg'. Collection includes fragment in a small unmarked box]; **TRH C18-3350**.

repandum, Lithothamnion [originally described as *Lithothamnion lenormandii* f. *australis* (Foslie 1901a: 8) but subsequently (Foslie 1904c: 4) raised to species rank and re-described as *Lithothamnion repandum* with a nomenclaturally allowable change in epithet from *australis* (used by Foslie in the rank of forma) to *repandum* (used by Foslie in the rank of species). Both taxa are based on the same type]. **Lectotype:** TRH, C18-3354 (see below).

Gabriel; Australia; [Victoria], Phillip Island, Corner Inlet, east of Port Phillip Bay; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ikke sp. [= no sporangia]' and '*L. repandum?*' and 'Flerp. konc. [= several-pored conceptacles] 180-300 μ '. Locality data jumbled – Phillip Island and Corner Inlet are geographically separated localities. Locality recorded in Adey & Lebednik 1967: 83 as 'Austr., Philip Is., Corner, 1897']; **TRH C18-3353.**

Gabriel; Australia; Victoria, Phillip Island, Ocean Beach; [no habitat data]; iv.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ikke sp. [= no sporangia]' and '*Lithoth. repandum?*'. One annotation slip in box marked 'Ikke sporer [= no spores]'. Another slip marked 'Konc. flerporet 240-280 μ , ca 60 porer, ikke sporer [= conceptacles several-pored 240-280 μ , ca 60 pores, no spores]'. Grouped with C18-3360 under one entry in Adey & Lebednik 1967: 83]; **TRH C18-3359.**

Gabriel; [Australia]; Victoria, Phillip Island, Ocean Beach; [no habitat data]; 1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ikke sp. [= no sporangia]' and '*L. repandum?*' and 'koncept. [= conceptacles]'. Grouped with C18-3359 under one entry in Adey & Lebednik 1967: 83]; **TRH C18-3360.**

Gabriel; Australia; [Victoria], Port Phillip Bay, Half Moon Bay; [no habitat data]; 14.i.1899; slides 358, 516; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 10; [Note: **Lectotype** of *Lithothamnion repandum* Foslie and of *Lithothamnion lenormandii* f. *australis*. Additional data — Woelkerling 1993: 189, and Wilks & Woelkerling 1994: 190. Collection includes a large round original box that houses a smaller original box, one original paper packet, a more recently added packet, one plastic bag, one loose fragment, slides and two annotation slips. Plastic bag contains one specimen and two fragments and is marked 'multiporate'. Large round box marked '2 delte sp. [= 2-parted sporangia]' and 'Udt. cyst. konc. fotogr. [= cystocarpic conceptacles taken out for photography]' and 'LM. 1 (10) [= Printz 1929, pl. 1, fig. 10]' and 'pr. [= slide] 516'. Slide 516 marked '*Lithoth. lenormandi* f. *australis* Fosl. = *repandum* (+ *L. fumigatum?*)' and 'Australia, Port Phillip Bay, Victoria, 14.i.1899' and 'leg. J. Gabriel'. Original packet is empty but is marked 'nr. 9 B' and '*L. repandum*' and 'Sp. konc. [= sporangial conceptacles]' and 'Australia' and '= præp. [= slide] 516'. One annotation slip has measurements for slide 516 and also is marked 'Ingen sporer [= without spores]'. Second annotation slip marked 'Ligner typen [= resemble the type]' and 'Ingen sporer [= without spores]' and 'Præp. [= slide] 516'. Smaller original box marked with collection data and also marked '*L. repandum?* (delvis [= in part])' and 'Præp. [= slide] 358'. More recently added packet contains three fragments and is marked 'Fractures'. Smaller box contains two fragments and a fragment packed inside a piece of paper marked '358' and a specimen packed inside a small packet marked 'nr. 9a' and '*L. repandum*' and 'Cyst. konc. af æske [= cystocarpic conceptacles from box]' and 'Præp. [= slide] 358'. Slide 358 marked '*Lithothamn. repandum*' and 'Australia, Victoria, Half Moon Bay, Port Phillip Bay' and '14.i.1899' and 'leg. J Gabriel'. The specimen illustrated in pl. 1, fig. 8 in Printz 1929 was removed to a separate box (C18-3351) that also contains material from two other Gabriel collections (C18-3356, C18-3357)]; **TRH C18-3354.**

Gabriel; Australia; [Victoria], Port Phillip Inlet, øst for [= east of] Port Phillip Bay; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ikke sp. [= no sporangia]' and '*L. lenormandi* f. = *L. repandum?*'. Locality data incorrectly recorded (there is no Port Phillip Inlet) but probably should be 'Corner Inlet, east of Port Phillip Bay']; **TRH C18-3352.**

Gabriel; Australia; Victoria, Westernport [Bay]; collection depth: 3-5 fathoms; 1899; slide 357; [no other collection data]; [no pfa]; [Note: collection consists only of the slide]; **TRH C18-3355.**

Gabriel; Australia; Victoria, Westernport Bay; collection depth: 7-9 fathoms; xi.-xii.1903; slide 1537, housed separately – see Note; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 7 [not recorded on box, but see Note]; [Note: box marked '*L. repandum* (Eksp. b delvis [= specimen b in part])']. Slide 1537 and the specimen illustrated in Printz were removed by Foslie to a separate box (C18-3351) that also contains specimens from two other Gabriel collections (C18-3354, C18-3356). This collection (C18-3357) grouped with C18-3358 under one entry in Adey & Lebednik 1967: 83; **TRH C18-3357.**

Gabriel; Australia; Victoria, Westernport Bay; collection depth: 7-9 fathoms; xi.-xii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. repandum?* (delvis [= in part])']. Annotation slip in box marked 'Ingen sporer [= without spores]'. Grouped with C18-3357 under one entry in Adey & Lebednik 1967: 83; **TRH C18-3358.**

Gabriel; Australia; [Victoria], Westernport [Bay], Phillip Island, Ocean Beach; at very low tide; xi.-xii.1903; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 1, fig. 9 [not recorded on box, but see Note]; [Note: box marked 'sp. 2 delte [= sporangia 2-parted]']. The specimen illustrated in Printz was removed to a separate box (C18-3351) that also contains specimens from two other Gabriel collections (C18-3354, C18-3357); **TRH C18-3356.**

Gabriel; Australia; Victoria, [three localities – see Note]; [no habitat data]; [date varies – see note]; slide 1537; [see Note for other collection data]; pfa: Printz 1929, pl. 1, figs 7-9 [but see Note]; [Note: the original round box contains material Foslie removed from three collections and used to prepare part of what is now Pl. 1 in Printz 1929. Cross references are included in relevant collections. Details, marked on the box lid of C18-3351 by Foslie, are as follows:

- 1) Printz 1929, pl. 1, fig. 7 (from Western Port Bay, 1903, collected at 7-9 fathoms, 'sp. 2-delte [= sporangia 2-parted]' and includes slide 1537). This specimen is present and was removed at some stage prior to 1929 from C18-3357 and the surface is marked 'a' with a pen. Slide 1537 marked 'Australia, Western Port Bay' and '1903' and 'Eksp. [= specimen a'].
- 2) Printz 1929, pl. 1, fig. 8 (from Port Phillip Bay, 1901). This specimen is present and was removed by Foslie at some stage prior to 1929 from C18-3354, but the collection date on the box for C18-3354 is '14.i.1899' and not '1901' as indicated on the box lid for C18-3351. Piece of paper marked 'Præp. [= slide] 516' contains one additional fragment. C18-3354 is the lectotype of *Lithothamnion repandum*.
- 3) Printz 1929, pl. 1, fig. 9 (from Western Port Bay, Ocean Beach, Phillip Island, collected at very low tide, xi.-xii.1903 and with 'sp. 2 delte [= sporangia 2-parted]'). This specimen is not present. but originally was removed prior to 1929 from C18-3356.

C18-3351 also contains fragments in a matchbox and one loose fragment in the original round box. Annotation slip in original round box marked 'Eksp. [= specimen] a' and 'præp. 1537 ved x [= slide 1537 at x]' and 'Flerp. konc. [= several-pored conceptacles]'. Entry in Adey & Lebednik 1967: 83 reads: 'Gabriel, Austr., Port Phillip Inlet, 1897, LM1(7).....1537'; **TRH C18-3351.**

repandum, Lithothamnion (f. dissidens). See listing above for ***dissidens, Lithothamnion***

schmitzii, Lithothamnion [originally described as *Lithophyllum schmitzii* (Harriot 1895a: 98), but subsequently (Heydrich 1901a: 541) transferred without change of rank into *Lithothamnion*, then (Foslie 1905e: 17) reduced to the rank of forma and transferred back into *Lithophyllum* as *Lithophyllum magellanicum* f. *schmitzii*, and then (Foslie 1907b: 8) re-elevated to species rank and transferred back into *Lithothamnion* as *Lithothamnion schmitzii*]. **Lectotype: PC**, General Herbarium (Keats & Chamberlain 1997: 68, Woelkerling 1998c: 325).

- Michaelsen; Ile de Feu [= Tierra del Fuego Island], [country uncertain]; [no other locality data]; [no habitat data]; 1893; slide 673; ex herb. Mus. Paris [PC]; [no pfa]; [Note: **Possible isoelectotype** of *Lithophyllum schmitzii* Hariot. Additional data — Keats & Chamberlain 1997: 68, and Woelkerling 1998c: 325-326. Earlier data on **TRH** material provided by Woelkerling 1993: 198. Box marked 'Sandsynlig [= probably] *Lith. magell.* (?) = *L. schm.* Alg. Not. IV, nr. 2' [Alg. Not. IV, nr. 2 refers to information in Foslie 1907b: 10]. It is uncertain whether the country of collection is Chile or Argentina. Slide 675, mentioned in the entry of Adey & Lebednik 1967: 84, belongs to C18-3362]; **TRH C18-3361.**
- Michaelsen; Ile de Feu [= Tierra del Fuego Island], [country uncertain]; [no other locality data]; [no habitat data]; 1893; slide 675; ex herb. Mus. Paris [PC]; [no pfa]; [Note: box marked '*Lithophyllum hapalidioides* Har.' and '*L. schmitzii* scr. Heydr. = *L. schmitzii* (Har.) Fosl. (*L. scutelloides* Heydr.)' and 'cfr. [= cf.] Alg. Not. IV' [Alg. Not. IV refers to information in Foslie 1907b: 8-11]. Slide marked '*Lithoph. hapalidioides* Har.' and '*L. schmitzii*' and 'Ildlandet [= Tierra del Fuego Archipelago]'. It is uncertain whether the country of collection is Chile or Argentina. Collection apparently not included in Adey & Lebednik 1967: 84, who, however, list slide 675 as belonging to the preceding collection (C18-3362)]; **TRH C18-3362.**
- Michaelsen; Ile de Feu [= Tierra del Fuego Island], [country uncertain]; [no other locality data]; 'på glas [= on glass]'; 1893; slide 674; ex herb. Mus. Paris [PC]; [no pfa]; [Note: box marked '*Lithophyllum hapalidioides* Har.' and '*L. schmitzii* scr. Heydr. = *L. magellanicum*' and 'Cyst. konc. [= cystocarpic conceptacles]' and 'cfr. [= cf.] Alg. Not. IV' [Alg. Not. IV refers to information in Foslie 1907b: 8-11]. Annotation slip in box marked '*Magellanicum* (på glas [= on glass])' and 'Enp. konc. hos *magell.* [= uniporate (enporede) conceptacles as like *magellanicum*']'. Slide marked '*Lithoph. hapalidioides* Har.' and '*L. schmitzii* (Har.) Heydr.' and 'Ildlandet [= Tierra del Fuego Archipelago]'. It is uncertain whether the country of collection is Chile or Argentina. Collection not included in Adey & Lebednik 1967: 84]; **TRH C18-3363.**
- [Michaelsen]; [Chile]; Cape Horn; [no habitat data]; [no date]; slide 655; [ex] herb. Mus. Paris [PC], 'No. 50 *L. schmitzii* scr. Heydr.'; [no pfa]; [Note: collection includes two original round boxes, one somewhat larger than the other. Larger box marked '= *L. schmitzii*? (*L. scutelloides* Heydr.) (eller [= or] *L. magellanicum*?)'. Collector and specimen number '50' mentioned by Heydrich (1901a: 542). Annotation slip in larger box marked 'Struktur [= structure]: *scutelloides*' and 'Flerp. konc. lidet fremst. [= several-pored conceptacles barely protruding]' and '*scutelloides*?'. Small box contains one fragment and is marked 'No. 50' and '“Tetrasp. [= tetrasporangia] in Sori”'. Slide 655 marked '*L. schmitzii* Har.'. Collection not included in Adey & Lebednik 1967]; **TRH C18-3364.**
- [Anon.]; Ile de Feu [= Tierra del Fuego Island], [country uncertain]; [no other locality data]; [no habitat data]; 1884; slide 672; [ex] herb. Mus. Paris [PC]; [no pfa]; [Note: box contains one small fragment and is marked '*L. schmitzii*' and 'n. sp.! [= new species!]' and 'scr. Har.' and '“Tetrasp. [= tetrasporangia]”' and 'scr. Heydr.' and '= *Lith. schmitzii* (Har.) Fosl. (*L. scutelloides* Heydr.)'. Annotation slip in box marked 'Koncept. [= conceptacles] 300-400 μ ' and 'svagt nedtr. centralparti som hos *scutell.* [= gently depressed in the centre as *scutelloides*']'. Slide marked '*L. schmitzii* Har. = *L. schm.* (Har.) Fosl. (*L. scutell.* Heydr.)'. It is uncertain whether the material was collected at a locality in the part of Tierra del Fuego Island in Argentina or the part in Chile. Adey & Lebednik 1967: 84 omit mention of slide]; **TRH C18-3365.**
- scutelloides*, *Lithothamnion*** [originally described as *Lithothamnion scutelloides* (Heydrich 1900d: (563)), but treated by Foslie (1907b: 8) as a heterotypic synonym of *Lithothamnion schmitzii*. Type material of *Lithothamnion scutelloides* was found with other collections of *L. schmitzii* in Foslie's herbarium. Collection listed under *Lithothamnion schmitzii* in Adey & Lebednik 1967]. **Holotype:** BR, Racovitza collection 186 (Woelkerling 1993: 198).

Racovitza; [Argentina]; Terre de Feu [= Tierra del Fuego Archipelago], Iles des Stat [= Staten Island], Golfe Saint-Jean [= Gulf of St. Jean]; [no habitat data]; 8.i.1898; slides 792-793; 'Exp. Antarct. Belge [= Belgian Antarctic Expedition 1897-1899]', Racovitza collection number 186, ex herb. Jardin Botanique de l'Etat, Bruxelles [BR]; pfa: Printz 1929, pl. 5, fig. 11 [(delvis [= in part])]; [Note: **Holotype fragments** of *Lithothamnion scutelloides* Heydrich. Additional data — Woelkerling 1993: 198. Box marked '*Lith. scutelloides* Heydr. = *L. schmitzii* (Har.) Foslie' and 'Fotogr. sp. [= photographed sporangia]'. Slides marked '*L. scutelloides* Heydr. = ~~*L. neglectum* Fosl.~~'. Collection includes two fragments in a small box marked 'Præp. [= slide] 793 + koncept. [= conceptacles]'. Collection also includes one fragment in a packet marked 'Golfe St. Jean' and '*L. schmitzii* (*scutelloides*)' and 'Foto. nr. 49 [= photograph number 49]' and 'Sp. konc. [= sporangial conceptacles]'; **TRH C18-3366**.

thelostegium, *Lithothamnion* [originally described as *Lithothamnion thelostegium* (Foslie 1907a: 4), but not mentioned in Foslie's subsequent publications]. **Holotype:** TRH, C18-3367 (see below).

[Seurat]; [Tuamotu Archipelago]; Rikitea; [no habitat data]; i.1904; slides 1420, 1432, 1469; [ex] Mus. **Holotype** of *Lithothamnion thelostegium* Foslie. Additional data — Woelkerling 1993: 223 and Woelkerling 1998c: 364. Box marked 'Fotogr. sp. [= photographed sporangia]'. Data on collector, locality and collection take taken from **PC** portion of the type (Woelkerling 1998c: 364). **TRH** box cover incorrectly marked that Rikitea is in Tahiti. Adey & Lebednik 1967: 84 mistakenly list 'Harriot' as collector and 'iv.1907' as the collection date. Adey & Lebednik 1967: 84 and Woelkerling 1993: 223 both mistakenly associate 'Rikitea' with Tahiti]; **TRH C18-3367**.

variabile, *Lithothamnion* [originally described as *Lithothamnion variabile* (Foslie 1906b: 10), where Foslie subsequently retained it in publication]. **Lectotype:** TRH, C18-3368 (see below).

Skottsberg; Falklandsøerne [= Falkland Islands]; Berkeley Sound, Port Louis; 'paa [= on] *Lithoph. falklandicum*'; 21.vii.1902; [no slides]; Swedish South Polar Expedition 1901-1903, station 35; [no pfa]; [Note: collection consists of two fragments in a small original box. Annotation slip in box has collection data and also is marked 'St. 35 (5) delvis [= in part]'. The fragments probably were removed from either A3-135 or A3-136, the two collections of *Lithophyllum falklandicum* with the same locality and date. Collection not listed in Adey & Lebednik 1967]; **TRH C18-3340**.

Skottsberg; Falklandsøerne [= Falkland Islands]; Berkeley Sound, Port Louis; [no habitat data]; 23.vii.1902; slides 939, 945; Swedish South Polar Expedition 1901-1903, station 35; pfa: Foslie 1907c, pl. 1, figs 7-9, and Printz 1929, pl. 5, figs 15-17; [Note: **Holotype** of *Lithothamnion variabile* Foslie. Additional data — Woelkerling 1993: 233. Collection includes a large round original box that houses two smaller round original boxes and an original packet. Large original box marked 'Fotogr. sp. [= photographed sporangia]'. Large original box contains seven specimens (not six as recorded by Woelkerling 1993: 234). Green tag attached to one specimen marked 'Fig. 15'. Green tag attached to another specimen marked 'Fig. 16'. Green tag attached to another specimen marked 'Fig. 17'. Green tag no longer attached to specimen is marked 'Fig. 9'. Annotation slip in large box marked 'Ny form af *synanabl.?*, cell. mindre end hos *scutelloides* ell. ny art?? [= new form of *synanabl.?*, cells smaller than *scutelloides* or new species??]' and 'Ikke fundet sporer [= spores not found]' and 'nær *Phil.?* ell. *synanablast* jfr. *scutelloides* [= close to *Phil.?* or *synanablast* cf. *scutelloides*']. Both slides dated '23.vii.1902'. One smaller box contains one fragment and is marked '*L. variabile*' and 'Præp. [= slide] 939' and 'Sp. konc., største stk. [= sporangial conceptacles, largest piece]'. Second smaller box con-

tains several fragments and is marked 'Præp. [= slide] 945' and 'Konc. [= conceptacles]'. Packet is empty but is marked 'Falklandsøerne, 23.vii.1902' and '*L. variabile*' and 'Foto. nr. 51 [= photograph number 51]' and 'Sp. konc. [= sporangial conceptacles]'; **TRH C18-3368**.

zostericum, *Lithothamnion* (f. *mediocris*). See listing above for *mediocre*, *Lithothamnion*

Case C, Drawer 19

During the present study, three notes that could not be matched to any collection were found in Drawer C19. The notes have been placed in an envelope marked 'Loose notes found in Drawer C19'.

africanum*, *Archaeolithothamnion [originally described as *Archaeolithothamnion africanum* (Foslie 1906a: 19), but not mentioned in Foslie's subsequent publications]. **Holotype**: divided between **PC**, Sauvageau Herbarium, and **TRH** (C19-3369) (Woelkerling 1998c: 284).

Sauvageau; Kanariske øer [= Canary Islands]; Tenerife, Puerto Orotava; 'litoralreg [= littoral region]'; xii.1904-ii.1905; slide 1054; [no other collection data]; pfa: Printz 1929, pl. 43, fig. 4; [Note: **Part of holotype** of *Archaeolithothamnion africanum* Foslie. Additional data — Woelkerling 1993: 23 and Woelkerling 1998c: 284. Box marked '(+ *Gon. (Lithoph.)* sp.')]; **TRH C19-3369**.

australasicum*, *Archaeolithothamnion [originally described as *Archaeolithothamnion australasicum* (Foslie 1907a: 12), but not mentioned in Foslie's subsequent publications]. **Lectotype**: **TRH**, C19-3370 (see below).

[Engelhart]; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1899; slide 537; comm. Dr Aug. Engelhart; [no pfa]; [Note: box marked '*Arch. australasicum?*'. Determinavit slip in box from Woelkerling marked 'Disintegrates in acid. SEM analysis did not allow for generic placement'. Grouped with C19-3372, C19-3373 and C19-3374 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3371**.

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1900; slides 568, 1353; [no other collection data]; pfa: Printz 1929, pl. 44, fig. 14; [Note: **Lectotype** of *Archaeolithothamnion australasicum* Foslie. Additional data — Woelkerling 1993: 34, and Townsend et al. 1995: 92. Collection includes a glass tube marked 'Præp. [= slide] 568' and 'Type A. *australis*.' and 'fragments of main'. Another crossed out name is on the box lid but only 'f. *contigua*' can be deciphered. Townsend et al. (1995: 93) concluded that it was highly likely that *Archaeolithothamnion australasicum* had first been described as *Lithophyllum okamurai* f. *contigua* (Foslie 1904c: 7) (also see comments under *Lithophyllum okamurai* f. *contigua* in Drawer A21), and that C19-3370 is highly likely to be the type of both taxa]; **TRH C19-3370**.

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1900; slide 566; [no other collection data]; [no pfa]; [Note: box marked '*Arch. australasicum?*' with another name blackened out but slide marked '*L. okamurai* f. *japonica?*'. Determinavit slip from Woelkerling marked 'Disintegrates in acid. SEM analysis did not allow for generic placement'. Grouped with C19-3371, C19-3373 and C19-3374 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3372**.

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1900; slide 569 [broken] and four slides from Woelkerling marked '1-1', '1-2', '1-3', '1-4'; [no other collection data]; [no pfa]; [Note: box marked '*Arch. erythraeum?* *austral-*

asicum?'. Determinavit slip in box from Woelkerling marked 'probably a species of *Hydro-
lithon*, 4 prepared slides enclosed'. Collection includes a piece of glass in a packet
marked '*Archaeolithothamnion australasicum*' and '569-1'. Grouped with C19-3371, C19-
3372 and C19-3374 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3373**.

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat
data]; 1900; slide 1373; [no other collection data]; [no pfa]; [Note: box marked '*Arch. aus-
tralasicum?*'. Determinavit slip in box from Woelkerling marked 'Disintegrates in acid.
SEM analysis did not allow for generic placement'. Grouped with C19-3371, C19-3372
and C19-3375 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3374**.

chilense, *Archaeolithothamnion* [originally described as *Archaeolithothamnion chilense*
(Foslie 1904c: 6), but not mentioned in Foslie's subsequent publications]. **Holotype:**
TRH, C19-3375 (see below).

Ohlendorff; Chile; Lobos de Afuera; [no habitat data]; 4.vii.1896; slides 595, 877; [ex] Bot.
Mus. Hamburg [**HBG**]; pfa: Printz 1929, pl. 44, fig. 12; [Note: **Holotype** of *Archaeo-
lithothamnion chilense* Foslie. Additional data — Woelkerling 1993: 51. Box marked
'Fotogr. [= photograph]' and 'ca. 1/3 beholdt [= ca 1/3 retained]'; **TRH C19-3375**.

crassiramosum, *Archaeolithothamnion* [originally described as *Archaeolithothamnion*
crassiramosum (Pilger 1908: 39), but treated by Foslie (1909b: 4) as a heterotypic syno-
nym of *Archaeolithothamnion erythraeum*. Listed under *Archaeolithothamnion cras-
siramosum* in Adey & Lebednik 1967: 84]. **Type:** apparently not designated (Woelkerling
1993: 65). **TRH** has one syntype fragment (C19-3376)

Voeltzkow; [Madagascar]; Juan de Nova Island; [no habitat data]; 1894; slide 1725; Voeltz-
kow collection number 22a; [no pfa]; [Note: locality on box given as 'Juan de Nova, Kanal
von Mozambique'. **Syntype fragment** of *Archaeolithothamnion crassiramosum* Pilger.
Additional data — Woelkerling 1993: 65. Collection includes two identical photos and a
glass negative of the specimen from which the fragments in Foslie's herbarium almost
certainly were taken. Photos and negative housed in a separate envelope]; **TRH C19-
3376**.

dimotum, *Archaeolithothamnion* [originally described as *Archaeolithothamnion dimotum*
(Foslie & Howe 1906b: (128)), but not mentioned in Foslie's subsequent publications].
Holotype: **NY**, Howe collection 2667 (Woelkerling 1993: 75).

Howe; Bahamas; Mariguana, Abraham Bay; on living corals, near low water mark; 6.xii.1907;
slide 1692; N.Y.B.G. [**NY**] 5375 [Howe collection number]; [no pfa]; [Note: annotation slip
in box with hand-written collection and habitat data also imprinted with 'North American
Marine Algae, Distributed from the Herbarium of the New York Botanical Garden' [**NY**].
Grouped with C19-3378 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3377**.

Howe; Bahamas; Mariguana, Abraham Bay; on living corals near low water mark; 6.xii.1907;
slide 1693; N.Y.B.G. [**NY**] 5376 [Howe collection number]; [no pfa]; [Note: one annotation
slip in box with hand-written collection and habitat data and collection number 5376a also
imprinted with 'North American Marine Algae Distributed from the Herbarium of the New
York Botanical Garden' [**NY**]. Second annotation slip in box with hand-written collection
and habitat data and collection number 5376b also imprinted with 'North American Marine
Algae Distributed from the Herbarium of the New York Botanical Garden'. Grouped with
C19-3377 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3378**.

Howe; Jamaica; near Montego Bay; [no habitat data]; 19.i.1907; slide 1466; N.Y.B.G. [**NY**]
nr. 5039 [Howe collection number]; [no pfa]; [Note: box marked '*Goniolithon solubile* (?) &
Archaeol. dimotum'. Annotation slip in box with hand-written collection and number data

also imprinted with 'North American Marine Algae Distributed from the Herbarium of the New York Botanical Garden' [NY]; **TRH C19-3379**.

Howe; Puerto Rico; Lemon Bay near Guánica; on rocks at low water mark; 27.vi.1903; three slides labelled with Howe collection number 2667; New York Bot. Garden [NY] Nr. 2667 [Howe collection number]; pfa: Printz 1929, pl. 43, fig. 16; [Note: **Isotype** of *Archaeolithothamnion dimotum* Foslie & Howe. Additional data — Woelkerling 1993: 75. Annotation slip with collection data and specimen number also imprinted with 'New York Botanical Garden' and 'North American Marine Algae'. One photograph of NY material of Howe collection number 2667 was found in Drawer C19 and is associated with **TRH**, C19-3380. The photo does not constitute part of C19-3380, however, because it depicts the holotype specimen in NY. The specimen also is depicted in Foslie & Howe 1906b, pl. 80, fig. 1]; **TRH C19-3380**.

durum, Archaeolithothamnion [originally described as *Archaeolithothamnion durum* (Foslie 1907a: 11), but not mentioned in Foslie's subsequent publications]. **Lectotype: TRH**, C19-3381 (see below).

[Engelhart]; Australia; Syd-Australia [= South Australia], Cape Jaffa, nær [= near] Kingston; [no habitat data]; 1899; two slides numbered 355 and two slides from Woelkerling marked '3-1' and '3-3'; comm. Dr Aug. Engelhart; pfa: Printz 1929, pl. 43, figs 1-3; [Note: **Lectotype** of *Archaeolithothamnion durum* Foslie. Additional data — Woelkerling 1993: 80, and Townsend et al. 1995: 86. Determinavit slip in box from Woelkerling marked 'Lectotype' and '*Sporolithon durum* (Foslie) Townsend & Woelkerling' and 'Male – 2 slides prepared']; **TRH C19-3381**.

Engelhart; Australia; Syd-Australie [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1900; slide 563 and one slide numbered 1.4 and also marked 'WJW (W.J. Woelkerling)'; [no other collection data]; [no pfa]; [Note: slide 1.4 marked as being male. Grouped with C19-3383 under one entry in Adey & Lebednik 1967: 84]; **TRH C19-3382**.

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1900; slides 567, 1354; [no other collection data]; [no pfa]; [Note: box marked '*Archaeolithoth. durum* (?)'. Determinavit slip in box from Woelkerling marked '*Sporolithon durum* (Foslie) Townsend & Woelkerling'. Grouped with C19-3382 under one entry in Adey & Lebednik 1967: 84, who omit mention of slide '1354']; **TRH C19-3383**.

erythraeum, Archaeolithothamnion [originally described as *Lithothamnion erythraeum* (Rothpletz 1893: 54) but subsequently (Foslie 1900i: 8) transferred without change in rank into *Archaeolithothamnion* where Foslie retained it in publication]. **Lectotype: TRH**, C19-3438 (see below).

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa; [no habitat data]; 1899; slides 538, 1375 [missing] and three slides from Woelkerling marked 1-1, 1-2 and 1-3; [no other collection data]; [no pfa]; [Note: box marked '*Arch. erythraeum?* f.'. Determinavit slip from Woelkerling marked 'Sterile fragments of *Lithophyllum* sp.']; **TRH C19-3384**.

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa – Kingston; [no habitat data]; 1900; slide 565 and three slides from Woelkerling marked '1-1', '1-2' and '1-3'; [no other collection data]; [no pfa]; [Note: box marked '*Arch. erythraeum?*'. Determinavit slip in box from Woelkerling marked 'Sterile but probably *Sporolithon* sp.'. Slide 565 marked '*L. okamurai* f. *japonica?*'; **TRH C19-3385**.

Faurot; [Djibouti]; Røde hav [= Red Sea] [but see Note], [Gulf of Tadjoura], Obock; [no habitat data]; [no date]; slides 1-2, 16; ex herb. Bornet [PC]; pfa: [Foslie 1904b], pl. 5, fig. 4; [Note: box marked '(*L. aschersonii*) *L. erythraeum*' and 'Fotografi [= photography]'. Box also marked 'Røde hav', but Obock is in the Gulf of Tadjoura which is part of the Gulf of Aden outside the Red Sea. Slides 1-2 marked '*L. aschersonii* Schw.'. Slide 16 marked '*Arch. aschersonii* Schw.'. Two identical photographs with the same collecting data were

- found in Drawer C19. The specimen shown does not match the material in **TRH** and probably shows a specimen in **PC**. The photos are housed in a separate envelope in Drawer C19. Adey & Lebednik 1967: 85 mistakenly list locality as 'Djibuti + Obock' and mistakenly include slide 24. Slide 24 belongs to C19-3392, which was not included in Adey & Lebednik 1967]; **TRH C19-3386**.
- Gabriel; [Hawaiian Islands]; Honolulu; [no habitat data]; x.1907; slides 1589-1590; [no other collection data]; [no pfa]; [Note: it is likely that the name of the collector (C.J. Gabriel) on the box is incorrect. All other Gabriel collections come from Victoria, Australia]; **TRH C19-3387**.
- Gardiner; Saya de Malha [Bank], [Indian Ocean]; [no other locality data]; collection depth: 26 fathoms; viii.1905; slide 1282; C16 [a designated collection at Saya de Malha Bank (see Foslie 1907e: 93-98)]; [no pfa]; [Note: box marked 'anth.? [= antheridia?']'. Saya de Malha Bank forms part of the submerged Mascarene Plateau south of the Seychelles in the Indian Ocean]; **TRH C19-3389**.
- Gardiner; Maldive [= Maldive Islands]; South Nilandu; collection depth: 36 fathoms; ca 20.iv.1900; slide 816 and seven unnumbered slides; [no other collection data]; [no pfa]; [Note: one annotation slip with collection marked 'b. *Hildenbrandia lithothamnioides* Fosl. *Archaeolith. sp.?*'. Second slip marked 'b. *Archaeolith. (erythr.)*' with another species name crossed out [difficult to read, maybe *Hildenbrandia lithothamnioides*]. Collection includes one fragment in a small round box marked '816']; **TRH C19-3388**.
- Jousseume; [Djibouti]; [Gulf of Tadjoura], Djibuti + Obock; [no habitat data]; 1897; slide 31; Jousseume collection number 5, ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked '*Arch. aschersoni* = *A. erythraeum*' and 'Røde hav [= Red Sea]'. Annotation slip in box marked 'Koncept.! [= conceptacles!']'. Grouped with C19-3391 under one entry in Adey & Lebednik 1967: 85]; **TRH C19-3390**.
- Jousseume; [Djibouti]; [Gulf of Tadjoura], Djibuti + Obock; [no habitat data]; 1897; slide 32; Jousseume collection number 1, ex herb. Bornet [**PC**]; [no pfa]; [Note: box marked 'Røde hav [= Red Sea]' and '*Arch. erythraeum* (ialfald delvis [= at least in part])'. Slide 32 marked '*Arch. erythr.?*' and 'Herb. Thur. – Born.'. Grouped with C19-3390 under one entry in Adey & Lebednik 1967: 85]; **TRH C19-3391**.
- Jousseume; [Djibouti]; [Gulf of Tadjoura], Djibuti + Obock; [no habitat data]; 1897; slide 24; Jousseume collection number 9, ex herb. Bornet [**PC**]; pfa: [Foslie 1904b], pl. 5, fig. 3]; [Note: box marked '*(Arch. aschersoni) Arch. erythraeum*' and 'Røde hav [= Red Sea]'. Collection not included in Adey & Lebednik 1967]; **TRH C19-3392**.
- Levander; [Eritrea]; Røde hafet [= Red Sea], Massanah; coral reef; 1894-1895; slide 33; comm. Prof. F. Elfving [of] Helsingfors; [no pfa]; [Note: annotation slip in box marked '*(L. incrustans f. fosliei* (Heydr.) Fosl.' and '*L. aschersoni* Schw.' and 'Sammenv. med [= coalesced with] *fosliei?*' and 'Præp. [= slide] Fuess. 33'. Slide 33 marked '*L. aschersoni* Schw.'. Collection includes one fragment in a small round box marked '33']; **TRH C19-3393**.
- Møller, H.A.; [Indonesia]; sydkysten av [= south coast of] Java, Palaboehan Ratoe; on coral reef; viii.1897; slides 1632-1635; [no other collection data]; [no pfa]; [Note: box marked 'Kalmar', the city in Sweden where Møller was based prior to 1917. Adey & Lebednik 1967: 84 mistakenly list the collector as 'Kalmar']; **TRH C19-3394**.
- Rechinger; [Hawaii [= Hawaiian Islands]]; [Oahu], Honolulu, Waikiki; [no habitat data]; 1905; slide 1097; [no other collection data]; [no pfa]; [Note: box and slide marked 'b'. Adey & Lebednik 1867: 85 mistakenly list collector as 'Reichinger']; **TRH C19-3395**.
- Rechinger; Samoa; Upolu Island, bei [= near] Apia; 'auf den korallenriff [= on the coral reefs]'; vi.1905; slides 1103-1104; [no other collection data]; [no pfa]; [Note: box marked '*Arch. erythraeum* forma' and 'a delvis [= in part]'. Collection not included in Adey & Lebednik 1967]; **TRH C19-3396**.
- [Weber-van Bosse]; [Indonesia]; Banda [Anchorage]; [no habitat data]; xi.1899; one slide labelled S.E. 238 (Siboga Expedition collection number); Siboga Expedition, station 240, collection 238; [no pfa]; [Note: **TRH** collection consists only of slide. Specimen from which

- slide was prepared presumed to be in **L.** Collection not included in Adey & Lebednik 1967]; **TRH C19-3397.**
- [Weber-van Bosse]; [Indonesia]; Binongka [Island], [Pasir Pandjang]; [no habitat data]; 1.-3.xi.1899; one slide labelled S.E. 1178 (Siboga Expedition collection number); Siboga Expedition, station 220, collection 1178; pfa: [Foslie 1904b], pl. 6, fig. 5 (as f. *mollis*); [Note: **TRH** collection consists only of slide. Some locality data taken from Weber 1902, *Liste des Stations*, p. 12. Specimen from which slide was prepared presumed to be in **L.** Collection not included in Adey & Lebednik 1967]; **TRH C19-3398.**
- [Weber-van Bosse]; [Indonesia]; Makassar; [no habitat data]; vi.1899; one slide labelled S.E. 1268 (Siboga Expedition collection number); Siboga Expedition, station 71, collection 1268; [no pfa]; [Note: Adey & Lebednik 1967: 84 omit mention of slide]; **TRH C19-3399.**
- [Weber-van Bosse]; [Indonesia]; Nusa-Laut nær [= near] Ambon, [Nalahia Bay]; [no habitat data]; [19.-20.xi.1899]; slide 712; Siboga Expedition, station 234, collection 154; pfa: [Foslie 1904b], pl. 5, fig. 10 [written as pl. 4 on slide label]; [Note: **TRH** collection consists only of slide. Some locality data taken from Weber 1902, *Liste des Stations*, p. 13. Specimen from which slide was prepared presumed to be in **L.** Collection not included in Adey & Lebednik 1967]; **TRH C19-3400.**
- [Weber-van Bosse]; [Indonesia]; [Paternoster Island], Sailus Besar; [no habitat data]; 17.-18.ii.1900; one slide labelled S.E. 428 (Siboga Expedition collection number); Siboga Expedition, station 315, collection 428; [no pfa]; [Note: **TRH** collection consists only of slide. Some locality data taken from Weber 1902, *Liste des Stations*, p. 16. Specimen from which slide was prepared presumed to be in **L.** Collection not included in Adey & Lebednik 1967]; **TRH C19-3401.**
- [Weber-van Bosse]; [Indonesia]; Rotti Island; [no habitat data]; 27.-29.i.1900; one slide labelled S.E. 629 (Siboga Expedition collection number); Siboga Expedition, station 299, collection 629; [no pfa]; [Note: box marked 'Sp. & anth.? [= sporangia and antheridia?']. Adey & Lebednik 1967: 85 give the locality as 'Rolli Is', list the collection date as '28.i.1900', and omit mention of slide]; **TRH C19-3402.**
- [Weber-van Bosse]; [Indonesia]; Saleyer; [no habitat data]; x.1899; one slide labelled with Siboga Expedition collection number 421b; Siboga Expedition, station 213, collection 421b 'delvis [= in part]'; [no pfa]; [Note: Adey & Lebednik 1967: 85 omit mention of slide]; **TRH C19-3403.**
- [Weber-van Bosse]; [Indonesia]; Sula Besi, Sanana Bay; [no habitat data]; 13.-14.ix.1899; one slide labelled S.E. 725 (Siboga Expedition collection number); Siboga Expedition, station 193, collection 725; [no pfa]; [Note: box marked 'Nos. 840a, 840b']; **TRH C19-3404.**
- [Weber-van Bosse]; [Indonesia]; Timor, Noimini [Bay of Noi-Mini]; [no habitat data]; 24.-26.i.1900; one slide labelled S.E. 524 (Siboga Expedition collection number); Siboga Expedition, station 296, collection 524; [no pfa]; [Note: box marked 'Brudstk. [= fragments]'. Adey & Lebednik 1967: 85 omit mention of slide]; **TRH C19-3406.**
- Wichmann; [Indonesia]; [Island of] New Guinea, Pulu Kelamala, østl. [= east of] Pulu Adu, westk. [= west coast]; [no habitat data]; 25.i.1903; slide 3; Hollandsk Ny Guinea Exp. 1902-1903; [no pfa]; [Note: Pulau Kelamala and Pulau Adi are islands off of the southeast coast of the Island of New Guinea. Adey & Lebednik 1967: 85 omit mention of slide and omit locality data]; **TRH C19-3407.**
- Wichmann; [Indonesia]; [Island of] New Guinea, Sari (Sjari), westk. v. [= west coast of] Geelvink Bay [= Teluk Cendrawasih]; [no habitat data]; 12.ii.1903; slide 5; Holl. Ny Guinea Exp. 1902-1903; [no pfa]; [Note: annotation slip in box marked 'NB. Tildels 2 og 3 delte sp. rum [= NB. In part 2- and 3-parted sporangia large]'. Adey & Lebednik 1967: 85 omit mention of slide]; **TRH C19-3408.**
- [Anon.]; [Egypt]; Røde hav [= Red Sea], [Sinai], Meerbusen [= Gulf of] Suez, El Tor; [no habitat data]; [no date]; slide 730; ex herb. Rothpletz [**M**, according to Stafleu & Cowan 1983: 927]; pfa: [Foslie 1904b], pl. 5, fig. 1; [Note: **Lectotype** of *Lithothamnion erythraeum* Rothpletz. Additional data — Woelkerling 1988: 203, and Woelkerling 1993: 86. Box

marked 'Fragm. af typeekspl. [= fragment of type material]' and 'ex herb. Rothpletz'. Slide marked 'typeekspl. [= type material]'. Adey et al. 1982: 48 incorrectly suggest that Rothpletz's type material was possibly destroyed in Berlin bombings]; **TRH C19-3409**.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; slide 1376; [no other collection data]; [no pfa]; [Note: annotation slip with slide marked 'Præp. [= slide] 1376' and 'Arch. erythr.?' and 'Smaa [difficult to read] interm. celler [= small [difficult to read] intermediate cells]']; **TRH C19-3438**.

erythraeum, Archaeolithothamnion (f. dura) [originally described as *Sporolithon ptychoides* f. *dura* (Heydrich 1897a: 67) but subsequently (Foslie 1900i: 8) transferred without change of rank into *Archaeolithothamnion erythraeum* as *A. erythraeum* f. *dura*. *Sporolithon ptychoides* f. *dura* is a superfluous substitute name for *Sporolithon ptychoides* f. *ptychoides*, and thus Foslie (1900i: 8) effectively considered *Sporolithon ptychoides* to be a forma of *Archaeolithothamnion erythraeum*. Additional data — Woelkerling 1993: 80, 183. *Sporolithon ptychoides* treated by Verheij (1993: 190) as a distinct species. Collections listed in Adey & Lebednik 1967: 84-85 under *Archaeolithothamnion erythraeum* without mention of forma]. **Lectotype: TRH, C19-3412** (see below).

[Weber-van Bosse]; [Indonesia]; [East Indian Archipelago]; [no habitat data]; [no date]; [no slides]; Siboga Expedition, station unknown, collection 1332; pfa: Foslie 1904b, pl. 5, fig. 11; [Note: **TRH** collection consists of fragments in a small box marked 'Brudst. af [= fragments of] S.E. 1332'. Locality data taken from notes in **TRH** made by Foslie (see Verheij & Woelkerling 1992: 273-274). Foslie indicated in his notes that a slide was made, but this is not with the collection. Specimen from which fragments were taken presumed to be in **L**. Collection not included in Adey & Lebednik 1967]; **TRH C19-3411**.

[Weber-van Bosse]; [Indonesia]; [North Ubian [Island]]; [no habitat data]; 28.-30.vi.1899; one slide labelled S.E. 741 (Siboga Expedition collection number); Siboga Expedition, station 99, collection 741; pfa: [Foslie 1904b], pl. 5, fig. 8; [Note: slide incorrectly marked 'Pl. XV, fig 5'. Adey & Lebednik 1967: 84 omit mention of slide and pfa data]; **TRH C19-3410**.

[Anon.]; [Egypt]; Røde hav [= Red Sea], [Sinai], El Tor; [no habitat data]; [no date]; two slides numbered 14 and one slide marked 'nr. 12'; [i.e. Heydrich number 12]; pfa: Foslie 1904b, pl. 5, fig. 2; [Note: **Lectotype** of *Sporolithon ptychoides* f. *dura* Heydrich (a superfluous name for *S. ptychoides* f. *ptychoides*). Additional data — Woelkerling 1988: 203, Verheij 1993: 190, and Woelkerling 1993: 80, 183. Box marked '*Sp. ptychoides* f. *dura* Heydr. = *Arch. erythr.*'. Annotation slip in box marked 'No. 12 von El Tor' and '*L. polymorp.?*'. Slides numbered 14 also marked with locality data. Slide marked 'nr. 12' also marked '*Sporolithon ptychoides*' and 'Heydr.' and 'El Tor' and '= *L. aschersoni* Schw.'. Slide 15, incorrectly placed with this collection by Woelkerling 1993: 183, belongs to C19-3419. Grouped with the isolectotype of *Sporolithon ptychoides* f. *mollis* (C19-3419) under one entry in Adey & Lebednik 1967: 85, who mistakenly list the collector as 'Heydrich']; **TRH C19-3412**.

erythraeum, Archaeolithothamnion (f. mollis) [originally described as *Sporolithon ptychoides* f. *mollis* Heydrich (1897a: 67). Subsequently (Heydrich 1897c: 416), raised to the rank of species as *Sporolithon molle*, then (Foslie 1904b: 38) reduced again to the rank of form and transferred from *Sporolithon ptychoides* to *Archaeolithothamnion erythraeum*, as *A. erythraeum* f. *mollis*. Treated by Verheij (1993: 189) as a distinct species: *Sporolithon molle*. Collections listed in Adey & Lebednik 1967: 84-85 under *Archaeolithothamnion erythraeum* without mention of forma]. **Lectotype: C**, unnumbered (Verheij 1993: 189).

[Weber-van Bosse]; [Indonesia]; Biaru Island; [no habitat data]; 17.-18.vii.1899; one slide labelled S.E. 1122 (Siboga Expedition collection number); Siboga Expedition, station 123, collection 1122; [no pfa]; [Note: box marked 'Anth.? [= antheridia?]. Slide marked 'anth.

konc.? [= antheridial conceptacles?]. Adey & Lebednik 1967: 84 omit mention of slide]; **TRH C19-3413.**

[Weber-van Bosse]; [Indonesia]; Gisser [Island]; [no habitat data]; 26.viii.1899; three slides labelled S.E. 969 (Siboga Expedition collection number); Siboga Expedition, station 172, collection 969; pfa: [Foslie 1904b], pl. 6, fig. 8; [Note: box contains three fragments and is marked 'Cystoc. [= cystocarpic]'. Box and slide also marked '(Pl. VI, fig. 11)', but the specimen from station 172 is depicted in fig. 8. In a notebook (see Verheij & Woelkerling 1992: 273) concerning Siboga Expeditions, the entry for collection 969 includes a reference to fig. 8. Adey & Lebednik 1967: 84 omit mention of pfa data]; **TRH C19-3414.**

[Weber-van Bosse]; [Indonesia]; Saleyer; [no habitat data]; x.1899; one slide labelled S.E. 1276 (Siboga Expedition collection number); Siboga Expedition, station 213, collection 1276; pfa: [Foslie 1904b], pl. 6, fig. 11; [Note: **TRH** collection consists only of slide. Some locality data taken from Weber 1902, *Liste des Stations*, p. 16. Specimen from which slide was prepared presumed to be in **L**. Collection not included in Adey & Lebednik 1967]; **TRH C19-3415.**

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pearl Bank; [no habitat data]; 27.vi.1899; one slide labelled S.E. 245 (Siboga Expedition collection number); Siboga Expedition, station 96, collection 245; pfa: [Foslie 1904b], pl. 6, fig. 9; [Note: **TRH** collection consists only of slide. Specimen from which slide was prepared presumed to be in **L**. Collection not included in Adey & Lebednik 1967]; **TRH C19-3416.**

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pulu Tongkil; [no habitat data]; 5.-6.vii.1899; one slide labelled S.E. 802 (Siboga Expedition collection number); Siboga Expedition, station 109, collection 802; pfa: [Foslie 1904b], pl. 6, fig. 7; [Note: box marked 'Cystoc. [= cystocarpic]'. Adey & Lebednik 1967: 84 omit mention of slide and pfa data]; **TRH C19-3417.**

[Weber-van Bosse]; [Indonesia]; [Sulu Archipelago], Twai-Twai Islands, Pulu Sanguisiapo; [no habitat data]; 24.vi.1899; one slides labelled S.E. 1057 (Siboga Expedition collection number); Siboga Expedition, station 93, collection 1057; pfa: [Foslie 1904b], pl. 6, fig. 4; [Note: slide marked 'Cystoc. [= cystocarpic]'. Adey & Lebednik 1967: 84 omit mention of pfa data]; **TRH C19-3418.**

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Twai-Twai Islands, Pulu Sanguisiapo; [no habitat data]; 24.-25.vi.1899; one slide labelled S.E. 1056 (Siboga Expedition collection number); Siboga Expedition, station 93, collection 1056; [no pfa]; [Note: larger original box marked '*Archaeolith. erythraeum*' and '24.-25.vi.1899'. Small original box (containing fragments) inside the larger box and slide both marked '*Arch. erythraeum* f. (*mollis*)' and '24.vi.1899']; **TRH C19-3405.**

[Anon.]; [Egypt]; Røde hav [= Red Sea], [Sinai], El Tor; [no habitat data]; [no date]; slide 15; Heydrich assigned number 11; pfa: Foslie 1904b, pl. 6, fig. 1; [Note: **Isolectotype** of *Sporolithon ptychoides* f. *mollis* Heydrich. Additional data — Woelkerling 1993: 152 (who listed the **TRH** material as syntype), and Verheij 1993: 189 (as *Sporolithon molle*), who lectotypified the taxon with a specimen in **C**, thus rendering the **TRH** material isolectotype. Box marked '*Sporol. ptychoides* f. *mollis* = *Arch. erythr.* f. *m.*'. Annotation slip in box marked 'Røde hav [= Red Sea], El Tor' and '*Sporolithon ptychoides* f. *mollis* Heydr. = *L. aschersoni* Schw.'. Slide 15 marked 'No. 11 von El Tor' and '*L. polym.* f. *molle*?!'. Grouped with the lectotype of *Sporolithon ptychoides* f. *dura* (C19-3412) under one entry in Adey & Lebednik 1967: 85, who mistakenly list the collector as 'Heydrich']; **TRH C19-3419.**

marmoreum, Archaeolithothamnion [originally named *Lithothamnion marmoreum* and thought to have been described by Munier-Chalmas, but original place of publication not determined (Foslie 1909a: 3, Lemoine 1918c: 243). Placed by Foslie (1909a: 3) in *Archaeolithothamnion*]. **Type:** not designated and whereabouts of type material unknown.

Munier-Chalmas; Belgique [= Belgium]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] herb. Bornet [**PC**]; [no pfa]; [Note: collection consists of a box with two annotation slips but no specimens or slides. Box marked 'Calcaire carbonif seen in M. Munier-Chalmas' and 'Cfr. [= cf.] *Lithoph. belgicum*'. See A4-173 for relevant collection of *L. belgicum*. One annotation slip has a drawing and also is marked '*Lith. marmoreum*' and 'Belgique' and 'Chalmas'. Second annotation slip has cell measurements and is marked '*Arch. marmoreum*' and 'Belgique' and 'Mun. Chalm.'. Photocopies of two letters and two postcards concerning this collection are in a separate envelope in Drawer C19. Collection discussed in detail by Foslie (1909a: 3-4)]; **TRH C19-3420**.

molle, *Sporolithon*, See listing above for ***erythraeum, Archaeolithothamnion (f. mollis)***

nummuliticum, *Archaeolithothamnion* [originally described as *Nullipora nummulitica* (Gümbel 1861: 654) but subsequently (Gümbel 1871: 37) transferred without change in rank into *Lithothamnion* and then (Foslie 1898b: 4) into *Archaeolithothamnion*, where Foslie retained it in publication]. **Type**: apparently not designated.

[Anon.]; [Germany]; Ober Bayern [= upper Bavaria], Siegsdorf, Schöncoker Graben [= Schöncoker Rift (valley)]; Eocene; [no date]; slide 18; [no other collection data]; [no pfa]; [Note: collection consists only of one slide and an annotation slip marked 'Præp. [= slide] 18' and '*L. nummuliticum*' with cell measurements (crossed out). There is no indication of who sent the slide or of the location of the specimen from which the slide was prepared]; **TRH C19-2566**.

ptychoides, *Sporolithon*. See listing above for ***erythraeum, Archaeolithothamnion (f. dura)***. Includes lectotype material

ptychoides, *Sporolithon (f. dura)*. See listing above for ***erythraeum, Archaeolithothamnion (f. dura)***

ptychoides, *Sporolithon (f. mollis)*. See listing above for ***erythraeum, Archaeolithothamnion (f. mollis)***. Includes lectotype material

schmidtii, *Archaeolithothamnion* [originally described as *Archaeolithothamnion schmidtii* (Foslie 1901b: 16), where Foslie retained it in publication]. **Holotype**: TRH, C19-3421 (see below).

Schmidt; Siam [now Thailand]; Koh Kahdat; collection depth: 5 fathoms; 15.ii.1900; slides 456, 457 [missing], 458-459; Dansk Siam Expedition [= Danish Expedition to Siam 1899-1900], number IX; pfa: Foslie 1904b, pl. 8, fig. 15; [Note: **Holotype** of *Archaeolithothamnion schmidtii* Foslie. Additional data — Verheij 1993: 192, and Woelkerling 1993: 197. Annotation slip from J. Schmidt marked 'Museum botanicum Hauniense' and 'No. IX' and 'determ: M. Foslie'. Museum botanicum Hauniense is an old Latin name for the Botanical Museum of Copenhagen [**C**]. Slides marked 'Siambugten [= Gulf of Siam, now the Gulf of Thailand]' and 'No. IX']; **TRH C19-3421**.

[Weber-van Bosse]; [Indonesia]; [Island of] New Guinea, Adjatuming; [no habitat data]; 23.-25.viii.1899; [no slides]; Siboga Expedition, station 169, collection 933; pfa: [Foslie 1904b], pl. 8, fig. 17; [Note: Adey & Lebednik 1967: 85 omit mention of pfa data]; **TRH C19-3422**.

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, Pearl Bank; [no habitat data]; 27.vi.1899; one slide labelled S.E. 253 (Siboga Expedition collection number); Siboga Expedition, station 96, collection 253; pfa: [Foslie 1904b], pl. 8, fig. 16; [Note: Adey & Lebednik 1967: 85 omit mention of the slide and the pfa data]; **TRH C19-3423**.

***schmidtii*, *Archaeolithothamnion* (f. *dissita*)** [originally described as *Archaeolithothamnion schmidtii* f. *dissita* (Foslie 1903c: 464), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 85 under species without mention of forma]. **Lectotype:** TRH, C19-3425 (see below).

Gardiner; Malediverne [= Maldive Islands]; Male Atoll, Hulule [but see Note]; [no habitat data]; iv.1900; slide 749; comm. Stanley Gardiner; [no pfa]; [Note: box marked 'Malediverne Hulule Male Atoll (eller [= or] S. [= South] Nilandu?)']; **TRH C19-3424.**

Gardiner; Malediverne [= Maldive Islands]; South Nilandu; collection depth: 36 fathoms; 20 iv.1900; slide 767; comm. Stanley Gardiner; pfa: Foslie 1903c, pl. 1, fig. 1; [Note: **Lectotype** of *Archaeolithothamnion schmidtii* f. *dissita*. Additional data — Woelkerling 1993: 78. Precise collection date written on slide]; **TRH C19-3425.**

sibogae*, *Archaeolithothamnion [originally described as *Archaeolithothamnion sibogae* (Weber-van Bosse & Foslie in Foslie 1901c: 3), where Foslie retained it in publication]. **Lectotype:** TRH, C19-3426 (see below).

[Weber-van Bosse]; [Indonesia]; Celebes, Palos Bay, Dongala; [no habitat data]; 19.vi.1899 [but see Note]; one slide with collection number 769; Siboga Expedition, collection 769; [no pfa]; [Note: collection represented in **TRH** by one slide. Slide also marked '18.-19.vi.1899' [rather than 1.vi.1899 as occurs on box] and 'stat. 86'. Specimen is in **L** and came from Siboga Expedition, station 86]; **TRH C19-3880.**

[Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; one slide with collection number 745; Siboga Expedition, station 99, collection 745; [no pfa]; [Note: collection represented in **TRH** by one slide. Specimen in **L** and depicted in Foslie 1904b, pl. 7, fig.16]; **TRH C19-2478.**

[Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; [no slides]; Siboga Expedition, station 99, collection 747; [no pfa]; [Note: box marked 'Siboga Exp. 747 + uden nr. [= without a number]']; **TRH C19-3429.**

[Weber-van Bosse]; [Indonesia]; [Sulu Archipelago], Nordkysten [= North coast of] Borneo, Paarlbank; [no habitat data]; [9.v.1899]; [no slides]; Siboga Expedition, [station 96], collection 297; [no pfa]; [Note: **Lectotype** of *Archaeolithothamnion sibogae* Foslie. Additional data — Verheij & Woelkerling 1992: 286, and Verheij 1993: 193, and Woelkerling 1993: 200. Specimen has attached sticker marked 'S.E. 297'. Grouped with C19-3427 under one entry in Adey & Lebednik 1967: 85]; **TRH C19-3426.**

[Weber-van Bosse]; [Indonesia]; [Sulu Archipelago], [North coast of Borneo], Paarlbank; [no habitat data]; [9.v.1899]; one slide with collection number 14; Siboga Expedition, [station 96], collection 14; [no pfa]; [Note: **Isolectotype slide** of *Archaeolithothamnion sibogae* Foslie. Additional data — Verheij & Woelkerling 1992: 286 and Woelkerling 1993: 200 and Woelkerling 1998c: 286. Collection 14 represented in **TRH** by one prepared slide but in **L** by the specimen and three prepared slides. Grouped with C19-3426 under one entry in Adey & Lebednik 1967: 85]; **TRH C19-3427.**

[Weber-van Bosse]; [Indonesia]; Sulu Archipelago, [North coast of Borneo], Paarlbank; [no habitat data]; 27.vi.1899; one slide labelled S.E. 262 (Siboga Expedition collection number); Siboga Expedition, station 96, collection 262; [no pfa]; [Note: **Isolectotype** of *Archaeolithothamnion sibogae* Foslie. Additional data — Verheij & Woelkerling 1992: 286 and Woelkerling 1993: 200. Collection 14 represented in **TRH** by one prepared slide and in **L** by the specimen. **TRH** slide not included in Adey & Lebednik 1967 or in Verheij & Woelkerling 1992 or in Woelkerling 1993]; **TRH C19-3428.**

timorense*, *Archaeolithothamnion [originally described as *Archaeolithothamnion timorense* (Foslie 1904b: 42), where Foslie retained it in publication]. **Lectotype:** L, 935.207-13 (Verheij & Woelkerling 1992: 288).

- Gardiner; Seychelles; [no other locality data]; collection depth: 31 fathoms; 20.x.1905; slide 1273; collection F2; [no pfa]; [no notes]; **TRH C19-3430.**
- [Weber-van Bosse]; [Indonesia]; Dammer Island, Kulewatti (Sollot) Bay; [no habitat data]; 9.-11.i.1900; one slide labelled S.E. 635 (Siboga Expedition collection number); Siboga Expedition, station 277, collection 635; pfa: [Foslie 1904b], pl. 8, fig. 7; [Note: **TRH** collection consists only of slide. Some locality data taken from Weber 1902, *Liste des Stations*, p. 15. Specimen from which slide was prepared presumed to be in **L**. Collection not included in Adey & Lebednik 1967]; **TRH C19-3431.**
- [Weber-van Bosse]; [Indonesia]; North Ubian [Island]; [no habitat data]; 28.-30.vi.1899; one slide labelled S.E. 755 (Siboga Expedition collection number); Siboga Expedition, station 99, collection 755; [no pfa]; [Note: box marked 'Arch. timorensis forma'. Adey & Lebednik 1967: 85 omit mention of slide]; **TRH C19-3432.**
- [Weber-van Bosse]; [Indonesia]; [Paternoster Island], Sailus Besar; [no habitat data]; 17.-18.ii.1900; one slide labelled S.E. 474 (Siboga Expedition collection number); [no other collection data]; pfa: Foslie 1904b, pl. 8, fig. 12; [Note: **Isolectotype** of *Archaeolithothamnion timorensis* Foslie. Additional data — Verheij & Woelkerling 1992: 288, Verheij 1993: 193, and Woelkerling 1993: 223. Collection consists only of one slide. Slide 474, marked with collection and pfa data, is from specimen 474, housed in **L** (Verheij & Woelkerling 1992: 288). Slide originally housed in same box as C19-2298, C19-3701 and C19-3723. Original box retained in C19-3723 but photocopy of box lid included with this collection (C19-3433)]; **TRH C19-3433.**
- [Weber-van Bosse]; [Indonesia]; [Paternoster Island], Sailus Besar; [no habitat data]; 17.-18.ii.1900; [no slides]; [Siboga Expedition, station 315], collection (specimen) 444; [no pfa]; [Note: **Isolectotype** of *Archaeolithothamnion timorensis* Foslie. Additional data — Verheij & Woelkerling 1992: 288 and Woelkerling 1993: 223. Specimen originally housed in same box as C19-3433, C19-3701 and C19-3723. Original box retained in C19-3723 but photocopy of box lid included with this collection (C19-2298)]; **TRH C19-2298.**
- [Weber-van Bosse]; [Indonesia]; [Paternoster Island], Sailus Besar; [no habitat data]; 17.-18.ii.1900; [no slides]; [Siboga Expedition, station 315], collection (specimen) 480; [no pfa]; [Note: **Isolectotype** of *Archaeolithothamnion timorensis* Foslie. Additional data — Verheij & Woelkerling 1992: 288 and Woelkerling 1993: 223. Specimen originally housed in same box as C19-3433, C19-2298 and C19-3723. Original box retained in C19-3723 but photocopy of box lid included with this collection (C19-3701)]; **TRH C19-3701.**
- [Weber-van Bosse]; [Indonesia]; [Paternoster Island], Sailus Besar; [no habitat data]; 17.-18.ii.1900; [no slides]; Siboga Expedition, station 315, one specimen without a number [but see Note] and three fragments; [no pfa]; [Note: **Isolectotype** of *Archaeolithothamnion timorensis* Foslie. Additional data — Verheij & Woelkerling 1992: 288 and Woelkerling 1993: 223. Specimen and fragments originally housed in same box as C19-3433, C19-2298 and C19-3701. Original box retained in C19-3723 with photocopies of box lid placed in other collections. Based on information in a Notebook sent by Weber-van Bosse to Foslie and retained in **TRH** and annotated by Foslie, the specimen could have been number 439, 464, 481 or 484. Without the original number label, however, no conclusions can be reached]; **TRH C19-3723.**
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 18.i.1900; one slide labelled S.E. 592 (Siboga Expedition collection number); Siboga Expedition, station 282, collection 592; [no pfa]; [Note: precise locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH C19-3434.**
- [Weber-van Bosse]; [Indonesia]; Timor - Nusa Besi [between Nusa Besi Island and the north east point of Timor]; [no habitat data]; 18.i.1900; one slide labelled S.E. 619 (Siboga Expedition collection number); Siboga Expedition, station 282, collection 619; [no pfa]; [Note: box and slide marked 'Arch. timorensis?'. Precise locality data taken from Weber 1902, *Liste des Stations*, p. 15]; **TRH C19-3435.**

zonatosporum, Archaeolithothamnion [originally described as *Archaeolithothamnion zonatosporum* (Foslie 1906b: 14), where Foslie retained it in publication]. **Holotype:** TRH, C19-3436 (see below).

Rechinger; United States; Pacifische küste [= Pacific Coast], [California], Long Beach bei [= near] Los Angeles; [no habitat data]; iv.1905; slide 1102; collection number 5130; pfa: Printz 1929, pl. 44, fig. 13; [Note: **Holotype** of *Archaeolithothamnion zonatosporum* Foslie. Additional data — Woelkerling 1993: 239. Adey & Lebednik 1867: 85 mistakenly list collector as 'Reichinger']; **TRH C19-3436.**

***Archaeolithothamnion* sp.?**

Engelhart; Australia; Syd-Australia [= South Australia], Cape Jaffa; [no habitat data]; 1899; slides 354, 408 and six slides prepared by Woelkerling respectively marked 1-1, 1-2, 2-1, 2-2, 2-3 and 2-4; [no other collection data]; [no pfa]; [Note: collection includes one larger original box and one small original round box. Larger round box marked '*Arch. ~~eryth-~~raeum??*'. Determinavit slip in larger box from Woelkerling marked 'præp. [= slides] 354, 408' and 'Sterile, but likely to be *Sporolithon*' and 'Det: Wm J. Woelkerling, Sept. 1994'. One annotation slip in larger round box marked 'Slides prepared by W. J. Woelkerling, 11. April 1994'. Another annotation slip in larger round box marked 'Præp. Anderss. 408. Hab. nær *mamill.* men m. haardere = Præp. 354 dersom ej tidligere forveksl. [= slide Andersson 408. Habit close to *mamill.* but much harder = slide 354 if not confused earlier]. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Small round box contains one fragment and is marked '408']; **TRH C19-3437.**

Case C, Drawer 20

During the present study, some notes that could not be matched to any collection were found in Drawer C20. The notes have been placed in an envelope marked 'Loose notes found in Drawer C20'. In addition, one envelope with a photo of a specimen in **NY** numbered 243 was found (see entry for C20-3499). The envelope and photo have been placed in a new envelope marked 'Loose photo of **NY** specimen associated with but not part of C20-3499'.

circumscriptum, Lithothamnion. See listing below for compactum, Lithothamnion (f. circumscriptum)

compactum, Clathromorphum [originally described as *Lithothamnion compactum* (Kjellman 1883: 132) but subsequently (Foslie 1898b: 4) transferred without change in rank into *Clathromorphum*, then (Foslie 1905c: 88) into *Phymatolithon* and finally (Foslie 1908d) back into *Clathromorphum*. Additional collections are in Drawer C21]. **Lectotype:** TRH, C20-3470 (see below).

Bay; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, ved [= at] Fosheims Peak i [= in] Havnefjorden; [no habitat data]; 3.viii.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2366; [no pfa]; [Note: Adey & Lebednik 1967: 86 omit mention of collector]; **TRH C20-3439.**

Bruce; [Canada]; Nova Scotia, Shelburne; [no habitat data]; [no date]; [no slides]; 'fra [= from]'. Prof. A.H. Mackay, Education Office, Halifax, Nova Scotia; [no pfa]; [Note: box marked '*L. compactum* & *L. glaciale*' and '4.']; **TRH C20-3440.**

- Collins, F.S.; United States; Maine, Casco Bay; [no habitat data]; 1903; [no slides]; collections 4916A, B, C; [no pfa]; [no notes]; **TRH C20-3441.**
- Collins, F.S.; [United States]; Maine, [Penobscot Bay], Eagle Island; apparently thrown up from deep water; vii.1891; one slide labelled with Collins collection number 2136; Collins collection 2136; pfa: Printz 1929, pl. 19, fig. 4; [no notes]; **TRH C20-3442.**
- Collins, F.S.; [United States]; Maine, Penobscot Bay, Eagle Island; tide pool; vii.1896; [no slides]; Collins collection number 3377; [no pfa]; [Note: box marked '*L. polymorph.?*' and '*L. compactum*' and 'modt. [= received] /3 1897'. Annotation slip in box marked 'Tømte konc. [= empty conceptacles]'. Collins collection number identical to that on C20-3443, but not mentioned in Adey & Lebednik 1967: 86]; **TRH C20-3444.**
- Collins, F.S.; United States; [Maine], Penobscot Bay, Eagle Island; [no habitat data]; 1898; [no slides]; Collins collection 3377; [no pfa]; [Note: box marked 'Steril [= sterile]'. Collins collection number identical to that on C20-3444]; **TRH C20-3443.**
- Dawson; [United States]; [Alaska], Aleutian Islands; [no habitat data]; 1891; slide 881; comm. Dr G.M. Dawson; [no pfa]; [Note: box faintly marked '*(L. compactum) L. loculosum?*' and 'Obs. taget opkast. som hos *circumscr.* [= observed taken up as *circumscr.*]' and 'Cfr. brev [= cf. letter] Dr. G.M. Dawson, Ottawa']; **TRH C20-3445.**
- Dircks; Spitsbergen; King Carls Land; [no habitat data]; 31.vii.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]'. Adey & Lebednik 1967: 86 give locality as 'Kong Canes Land'. The Adey & Lebednik 1967: 88 entry under *Clathromorphum circumscriptum* (numbered C22-3539 in the present catalogue) (collection not found) is virtually the same as the Adey & Lebednik (1967: 86) entry under *Clathromorphum compactum* (numbered C20-3446 in the present catalogue), but it is not possible to determine conclusively whether the two entries pertain to the same collection]; **TRH C20-3446.**
- Farlow; [United States]; Maine, Eastport; [no habitat data]; ix. [no year]; [no slides]; Farlow collection number VI; pfa: Printz 1929, pl. 41, fig. 4; [Note: box marked '*L. compactum delvis* [= in part]' and 'Sp. 2 delte [= sporangia 2-parted]'. Annotation slip in box printed with 'Herb. W.G. Farlow' [FH] also marked by hand with locality and date data and with 'VI' and '*Lithothamnion compactum* vel [= as well] *L. circumscriptum*']; **TRH C20-3447.**
- Farlow; [United States]; Massachusetts, Magnolia; [no habitat data]; iv.1897; [no slides]; Farlow collection number VI^x; [no pfa]; [Note: box marked 'Steril [= sterile]'. Annotation slip in box with locality and date data also marked 'VI^x' and '*Lithothamnion compactum* vel [= as well as] *L. circumscriptum?*' and 'Farlow 1900' and also imprinted with 'Herb. W.G. Farlow' [FH]. Farlow probably sent the specimen to Foslie in 1900]; **TRH C20-3448.**
- Foslie; [Norway]; Alten, Bækkarfjord [now Alta, Bekkarfjord]; collection depth: ca 4 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ingen konc. [= without conceptacles]']; **TRH C20-3449.**
- Foslie; [Norway]; Alten, Lille Lærredsfjord [now Alta, Lille Lerresfjorden]; collection depth: ca 4 fathoms; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. comp. - circ.*' and '*Cl. circumscr.*' and 'Ikke sp. [= no sporangia]']; **TRH C20-3450.**
- Foslie; [Norway]; Finmarken [now Finnmark], Hjelmsø, Sortvig [now Hjelmsøya, Svartvik]; 'klph. nederste vm. holmen tem. udsat [= rock pools lowest water mark, the islet rather exposed]'; 15.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. med. [= mixed with] *L. varians*']; **TRH C20-3451.**

- Foslie; [Norway]; Finmarken [now Finnmark], Kistrand; collection depth: 4-6 fathoms; 11.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. compactum* (delvis [= in part]) & ung [= young] *L. glac.*'. Annotation slip in box with collection data also marked 'leg. M. Foslie?'. Adey & Lebednik 1967: 86 give collection depth as '5 fathoms']; **TRH C20-3452.**
- Foslie; [Norway]; Vestfinmarken [= West Finnmark], Kvalsund; 'klph. [= rock pools]'; 15.vii.1891; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 19, fig. 2; [Note: box marked 'Tømte konc. [= empty conceptacles]'. Adey & Lebednik 1967: 87 mistakenly give date as '31.vii.1891']; **TRH C20-3453.**
- Foslie; [Norway]; Finmarken [now Finnmark], indenfor [= within] Lille Skarsvaag [now Lille Skarsvåg]; collection depth: ca 15 fathoms; 20.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. compactum* (& *L. glac.*)'. Relevant collection of *Lithothamnion glaciale* is B10-2276]; **TRH C20-3454.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes], østsiden [= eastern side]; 'klp. nederste vandm. [= rock lowest water mark]'; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C20-3456.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; collection depth: 8-10 fathoms; 17.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'tømte konc. [= empty conceptacles]' and 'ved bortf. tag. [meaning uncertain]']; **TRH C20-3455.**
- Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depths: ca 7 fathoms and ca 15 fathoms, 'paa [= on] *Mytilus*'; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. men ej sp. [= conceptacles but no sporangia]'. Adey & Lebednik 1967: 87 mistakenly give date as 9.vii.1897]; **TRH C20-3457.**
- Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depth: ca 5 fathoms, 'haard bergb. indenf. neset [= on hard rock bottom within the headland], paa [= on] *L. glac.*?'; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C20-3458.**
- Hartz; [Greenland]; Østgrønland [= East Greenland], Danmarks ø [= Denmark Island], vest for [= west of] Hekla Havn; collection depth: 'indtil [= down to] 17 fathoms'; 31.vii.1892; [no slides]; station 36-37; [no pfa]; [Note: box marked '*Cl. compactum* (*circumscr.*)' and 'Tømte konc. [= empty conceptacles]']; **TRH C20-3459.**
- Hartz; Grønland [= Greenland]; Holstensborg; [no habitat data]; 20.vi.1890; slides 875, 879 [both missing]; [no other collection data]; [no pfa]; [Note: box marked '879d, 875b' and 'sp. konc. [= sporangial conceptacles]' and 'sp. 2 delte [= sporangia 2-parted]'. Adey & Lebednik 1967: 86 record two boxes but only one was found during the present study]; **TRH C20-3460.**
- Hartz; Grønland [= Greenland]; Ritenbenk; collection depth: 6-15 fathoms; 1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'm/unge koncept. [= with young conceptacles]' and faintly marked 'Ingen sporer [= without spores]']; **TRH C20-3461.**
- Howe; [Canada]; Nova Scotia, Halifax Harbor; [no habitat data]; ix.1901; [no slides]; New York Bot. Garden [NY] 1097 [Howe collection number]; [no pfa]; [Note: box marked 'brudst. (ekspl. return.) [= fragments (specimen returned)]' and 'Ingen spor. [= without sporangia]']; **TRH C20-3462.**
- Johnson, N; Spitsbergen; Norskøerne [now Norskøyene] - Amsterdamøerne [now Amsterdamøya] [= the Norwegian Islands - Amsterdam Island]; [no habitat data];

1894; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 19, fig. 3, and Printz 1929, pl. 41, fig. 2; [Note: box marked 'Et stk. af ekspl. tilbagesendt Tromsø Mus. [= one piece of specimen returned to Tromsø Museum]' and 'Ingen sporer [= without spores]'. Box also marked 'Præp. [= slide]', but no slide was found]; **TRH C20-3463.**

Johnson, N; Spitsbergen; Norskøerne [now Norskøyene] - Amsterdamøerne [now Amsterdamøya] [= the Norwegian Islands - Amsterdam Island]; 'paa [= on] *L. flavescens* forma *balanicola*'; 1894; [no slides]; [no other collection data]; [no pfa]; [Note: see B3-1770 for relevant collection of *L. flavescens*. The epithet *balanicola* is not validly published (see Woelkerling 1993: 37). Collection not included in Adey & Lebednik 1967]; **TRH C20-3464.**

Jónsson; Island [= Iceland]; Brinnes; [no habitat data]; 18.vii.1897; [no slides]; Jónsson collection number 692; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles]']; **TRH C20-3465.**

Jónsson; Island [= Iceland]; Eyrarbakki; [no habitat data]; 2.vi.1897; [no slides]; Jónsson collection number 486; [no pfa]; [Note: box marked '*Cl. compactum*?' and '*Lithoph. orbiculatum*?' and 'Cyst. konc.? [= cystocarpic conceptacles?]' and '(& forkr. [= dwarfed] *L. glac.*)']; **TRH C20-3466.**

Jónsson; Island [= Iceland]; north Iceland, Prestbakki; [no habitat data]; 8.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles]']; **TRH C20-3467.**

Jónsson; Island [= Iceland]; Selstadaun; collection depth: 8-19 fathoms, 'paa [= on] balan. [= *Balanus*']; 16.vi.1898; [no slides]; Jónsson collection number 135; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles] 140-200'. The Adey & Lebednik 1967: 88 entry under *Clathromorphum circumscriptum* (numbered C22-3569 in the present catalogue) (collection not found) is virtually the same as the Adey & Lebednik (1967: 86) entry under *Clathromorphum compactum* (numbered C20-3468 in the present catalogue), but it is not possible to determine conclusively whether the two entries pertain to the same collection]; **TRH C20-3468.**

Kjellman; [Norway]; Finmarken, Maasø [now Finnmark, Måsøy]; 'i klipphålar vid ebb vattenfylda [= in rock pools at ebb-tide filled with water]'; 31.vii.1872; [no slides]; ex herb. Kjellman [UPS]; [no pfa]; [Note: box marked '*Lithoth. polymorphum* = *Cl. compactum*' and 'Ingen sp. [= without sporangia]'. Adey & Lebednik 1967: 87 mistakenly list 'Foslie' as the collector]; **TRH C20-3469.**

Kjellman; [Russia]; Novaya Zemlya, Karmakul Bay; [no habitat data]; 21.vi.1875 [but see Note]; slide 217; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 1; [Note: **Lectotype** of *Lithothamnion compactum* Kjellman. Additional data — Woelkerling 1988: 161, figs 167-170, Woelkerling 1993: 54, and Woelkerling & Verheij 1995: 40. Box marked 'Ingen sporer [= without spores]'. Collection date on slide clearly written as '21.vi.1875', but on packet containing two fragments, the date appears to be '26.vi.1875']; **TRH C20-3470.**

Kruuse; [Greenland]; Øst Grønland [= East Greenland], Tasinsak; [no habitat data]; 5.-30.v.1899; eleven unnumbered slides; ex herb. Bot. Mus. Kbhavn [C]; [no pfa]; [Note: box marked 'Cyst.? - mindre end sp. konc. [= cystocarpic? - smaller than sporangial conceptacles]' and '2 delte [= 2-parted]' and 'Afk. præp. [= decalcified slide]'. Annotation slip in box with handwritten locality and date data also imprinted with 'Plantae groenlandicae, a Museo botanico Hauniensi distributae [= Greenland plants distributed from the Museo botanico Hauniensi]' and 'Expeditio Danica in Groenlandiam orientalem 1898-99 [= Danish Expedition to East Greenland 1898-1899]'. Museo botanico Hauniensi is an old Latin name for the Botanical Museum Copenhagen [C]. Adey & Lebednik 1967: 86 mistakenly list the collector as 'Krause']; **TRH C20-3471.**

- Lagerheim; Sverige [= Sweden]; Bohuslen, Gullmarsfjorden; collection depth: 30-40 fathoms [but see Note], fastened to a stone; viii.1882; slide 293; ex herb. Kjellman [UPS]; [no pfa]; [Note: box marked '*Cl. compactum*' and 's. med. [= mixed with] *L. sonderi*'. Slide marked with locality, date and collector and also marked '*Clathrom. compactum*' and 'ex herb. Kjellman'. Annotation slip in box marked 'Fastsittande på en sten upptagen från stort djup (30-50 famnar) i Gullmarsfjorden [= fastened to a stone dredged from a great depth (30-50 fathoms) in Gullmarsfjorden]'. Collection found in Drawer C24 during the present study and listed for that Drawer by Adey & Lebednik 1967: 89]; **TRH C20-3687.**
- Ostenfeld; Island [= Iceland]; Melrakkesletten, Grjotnes v. [= at] Rødehuk; collection depth: 12 fathoms; 26.vii.1896; [no slides]; Ingolf Exp. [= Danish Ingolf Expedition 1895-1896], [ex] Bot. Mus. Kbh. [C]; [no pfa]; [Note: box marked '*Cl. compactum* (vel [= also] *circumscr.*?)']; **TRH C20-3472.**
- Ostenfeld; Island [= Iceland]; Reyðharfjordhur, Hólmanes; [no habitat data]; 17.vii.1896; [no slides]; [ex] Bot. Mus. Kbh. [C], collection number 134; [no pfa]; [Note: box marked '*Cl. compactum?* (vel [= also] *circumscr.*)' and faintly marked 'Tømte konc. [= empty conceptacles]'. Adey & Lebednik 1967: 86 omit mention of collector. Collected during Danish Ingolf Expedition 1895-1896 but not so indicated on box]; **TRH C20-3473.**
- Penhallow; [United States]; Maine, Kittey; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*"L. polymorphum"* = *L. compactum*' and 'sp. konc. [= sporangial conceptacles]' and 'vel [= also] *circumscr.*?']. Annotation slip in box marked 'Tømte konc. [= empty conceptacles]'. Grouped with C20-3475 under one entry in Adey & Lebednik 1967: 86]; **TRH C20-3474.**
- Penhallow; [United States]; Maine, Kittey; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*"L. polymorphum"* = *L. compactum*' and faintly marked '(vel [= also] *circumscr.*?)'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with C20-3474 under one entry in Adey & Lebednik 1967: 86]; **TRH C20-3475.**
- Penhallow; [United States]; Massachusetts, Woods Holl [now Woods Hole]; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*"Melobesia lenormandi"* = *L. foecundum!*' and faintly marked '*comp.*?']. Annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH C20-3476.**
- Ruggles; [Canada]; Nova Scotia, Bay of Fundy, Digby County, Freeport; [no habitat data]; [no date]; [no slides]; comm. A.H. Mackay 1897, numbers 1-6 'delvis [= in part]'; [no pfa]; [Note: box marked 'Delvis konc. men ej sp. [= in part conceptacles but no sporangia]' and 'konc. [= conceptacles] 120-140' and 'konc. [= conceptacles] 140-200 μ ']; **TRH C20-3477.**
- Saunders; [United States]; [Alaska], Taku Inlet; [no habitat data]; 8.vi.1899 [but see Note]; slide 453; The Harriman Alaska Expedition, plants collected at Taku Inlet, number 440; [no pfa]; [Note: box is dated 8.vi.1899 but slide is dated 8.x.1899. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Adey & Lebednik 1967: 86 list '453' as a collection number rather than a slide number]; **TRH C20-3479.**
- Saunders; [United States]; [Alaska], Virgins Bay; forming an indefinite incrustation many feet in extent – at + below lowest tide line; 29.vi.1899; [no slides]; The Harriman Alaska Expedition, Plants of Prince William Sound, Saunders collection number 431; [no pfa]; [Note: box faintly marked 'Ingen konc. [= without conceptacles]'. Habitat data marked on annotation slip in box]; **TRH C20-3478.**
- [Saunders]; [United States]; [see Note for locality]; [no habitat data]; [no date]; slide 1482; herb. Saunders [dispersed amongst several institutions, according to Stafleu &

- Cowan 1985: 65], comm. Farlow (1907), number 5; [no pfa]; [Note: box marked 'California (?)' and 'Fra [= from] Alaska?' and '*Phym. (Clathr.) compactum* f. *circumscripta* (?)'. One annotation slip in box imprinted with 'Herb W.G. Farlow' [FH] also marked by hand with 'Præp. [= slide] 1482' and '5.' and 'California' and 'Herb. Saunders'. Second slip marked 'Tømte konc. [= empty conceptacles]'; **TRH C20-3480.**
- Setchell; [United States]; [Alaska], St. Michael; on shells of *Mytilus*; 19.vii.-5.viii.1899; [no slides]; Herbarium of the University of California [UC], Botanical Expedition to Alaska, 1899, Setchell collection number 5156y; [no pfa]; [Note: annotation slip in box with handwritten habitat data also imprinted with 'Herbarium of the University of California' and 'Botanical Expedition to Alaska, 1899' and 'W.A. Setchell, W.L. Jepson, L.E. Hunt, A.A. Lawson' and 'St. Michael, July 19-Aug. 5.' and 'Coll., W.A.S.']; **TRH C20-3481.**
- Simmons; [Canada]; [Northwest Territories], Ellesmerelands østre kyst [= the eastern coast of Ellesmereland], Rice Strait; collection depth: ca 40 metres; 24.viii.1898; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 331; [no pfa]; [Note: box marked '*Cl. compactum* (& *L. laeve* (& *L. foec.*))' and '2 delte sp. [= 2-parted sporangia]'. Boxes with identical collection data are filed in Drawer B2 under *Lithothamnion foecundum* (B2-1698) and B4 under *Lithothamnion laeve* (B4-1854). Adey & Lebednik 1967: 86 omit mention of collector]; **TRH C20-3482.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, ved skjærene udenf. [= at the skerries outside] Havnefjorden; collection depth: ca 15 metres; 22.vi.1900; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2052; pfa: Printz 1929, pl. 41, fig. 3; [Note: box faintly marked '2 delte sp. [= 2-parted sporangia]'. Adey & Lebednik 1967: 86 omit mention of collector]; **TRH C20-3483.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Hvalrosfjordens munding [= the mouth of Hvalrosfjorden]; [no habitat data]; 28.vi.1901; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2810; [no pfa]; [Note: box marked '*Clathrom. compactum* (& *L. laeve*)' and faintly marked '2 delte sp. [= 2-parted sporangia]'. Another box with identical collection data is filed in Drawer B4 under *Lithothamnion laeve* (B4-1853). Adey & Lebednik 1967: 86 omit mention of collector]; **TRH C20-3484.**
- Simmons; [Canada]; [Northwest Territories], søndre [= southern] Ellesmereland, Jammerbugten; [no habitat data]; 29.vi.1901; [no slides]; Sverdrup's *Fram* Expedition [= Second Norwegian Polar Expedition in the *Fram* (1898-1902)], collection number 2808; [no pfa]; [Note: box marked '*Clathr. compactum* (& *L. laeve*)' and faintly marked '2 delte sp. [= 2-parted sporangia]'. Another box with identical collection data is filed in Drawer B4 under *Lithothamnion laeve* (B4-1849). Adey & Lebednik 1967: 86 omit mention of collector]; **TRH C20-3485.**
- Waghorne; [Canada]; Newfoundland, Bay of Islands, Little Harbour; [no habitat data]; 1897; [no slides]; Waghorne collection number 7; [no pfa]; [Note: box marked 'Ingen sp. [= without sporangia]' and 'Små konc. [= small conceptacles]'. Collection not included in Adey & Lebednik 1967, who, however, list a collection dated '2.vi.1897' (see C20-3546) that has not been found]; **TRH C20-3486.**
- Waghorne; [Canada]; Newfoundland, Bay of Islands, forskj. lok. [= different localities]; [no habitat data]; ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. comp.*' and '*L. circumscr.*' and 'Ikke sp. [= no sporangia]'. Collection

- not included in Adey & Lebednik 1967, who, however list a collection dated '2.vi.1897' see C20-3546) that has not been found]; **TRH C20-3487.**
- Waghorne; Canada; Newfoundland, Bay of Islands; [no habitat data]; 2.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed in Adey & Lebednik 1967: 88 but not found during present study]; **TRH C20-3546.**
- [Anon.]; [Canada]; Nova Scotia, Cranberry Head near Yarmouth; 'nr. 1 (ekspl. paa sten [= specimen on stone]) on boulders etc. at low water' and 'nr. 2 (løse stk. [= loose pieces]) low water mark'; vi.1897 [but see Note]; slide 14; comm. Mackay; pfa: Printz 1929, pl. 41, fig. 9; [Note: box marked 'Steril [= sterile]'. Date on slide marked as 'vi.1897' but date on box marked only as '1897'. One annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Second slip in box marked 'Cell. som hos typen (luftblærer) (Novaja Semlja) [= cells as the type (air bubbles) (Novaya Zemlya)]'. Slide marked with locality data and with 'Mackay nr. 2'. Species name on slide faintly crossed out. Adey & Lebednik 1967: 86 mistakenly list 'Mackay' as the collector and omit mention of collection date and slide]; **TRH C20-3488.**
- [Anon.]; Grønland [= Greenland]; Godthaab, Skibshavn; [no habitat data]; [no date]; [no slides]; [ex] Bot. Mus. Kbh. [C], collection 164; [no pfa]; [Note: box marked 'sp. konc. [= sporangial conceptacles]' and '2 delte sp. [= 2-parted sporangia]'. The collection number probably was assigned by Rosenvinge]; **TRH C20-3489.**
- [Anon.]; Grønland [= Greenland]; Manermiut; [no habitat data]; 1.vii.1890; fourteen slides numbered 887; [ex] Bot. Mus. Kbh. [C], collection number 887; [no pfa]; [Note: box marked 'Afk. præp. [= decalcified slides]' and 'Sp. konc. [= sporangial conceptacles]' and 'Sp. 2 delte [= sporangia 2-parted]']; **TRH C20-3490.**
- [Anon.]; [Norway]; Finmarken, Hjelmsø [now Finnmark, Hjelmsøya], Russesand; 'grunde klp., midtre vm., local men i mgd. – udsat sted [= shallow rock pools, middle water mark, local but in abundance – exposed place]'; 17.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Cl. compactum* (s. m. *circ.* i særsk. æske [= mixed with *circ.* in speparate box])' and 'Tømte konc. [= empty conceptacles]']; **TRH C20-3492.**
- [Anon.]; [Norway]; Finmarken, Hjelmsø, Sortvig [now Finnmark, Hjelmsøya, Svartvik]; [no habitat data]; 15.vii.1897; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 19, fig. 2; [no notes]; **TRH C20-3491.**
- [Anon.]; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depth: ca 7 fathoms, [on porcelain]; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in an open box. Label fastened to porcelain marked '*Cl. compactum* delvis [= in part]']; **TRH C20-3493.**
- [Anon.]; [Norway]; Porsangerfjorden, Tamsø [now Tamsøya]; 'klp. nedre vannm. [= rock lower water mark]'; 28.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 5; [Note: one annotation slip in box with habitat data also marked '*Cl. compactum* f. *circumscripta*'. Second slip marked '*L. circumscr.* (s. m. [= mixed with] *polym.*)'. Third slip marked 'Ingen sp. [= without sporangia]']; **TRH C20-3494.**

***compactum*, *Clathromorphum* (f. *circumscripta*)** [originally described as *Lithothamnion circumscriptum* (Strömfelt 1886: 20) but subsequently (Foslie 1898a: 5) transferred without change in rank into *Clathromorphum*, then (Foslie 1905c) reduced to the rank of forma and transferred into *Phymatolithon* as *P. compactum* f. *circumscripta*, and then (Foslie 1908a: 210, Foslie 1908d: 11) species and forma transferred without change in rank into *Clathromorphum* as *C. compactum* f. *circumscripta*. Additional collections occur under *Clathromorphum circumscriptum* in Drawer C22. Collections listed in Adey & Le-

bednik 1967: 86-87 under species without mention of forma]. **Type:** not designated (Lebednik 1977: 64). There is no syntype material in **TRH**.

- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: ca 4 fathoms; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Cl. compactum* f. *circumscripta* s. med. *L. glaciale* og delvis overvokset af denne [= *Cl. compactum* f. *circumscripta* mixed with *L. glaciale* and in part overgrown by this]' and 'Ingen sp. [= without sporangia]']; **TRH C20-3495**.
- Howe; [Canada]; Newfoundland, near Torbay; on rocks at low water mark; 21.-26.viii.1901 [but see Note]; [no slides]; New York Bot. Garden [NY] 986 [Howe collection number]; [no pfa]; [Note: box faintly marked 'Ingen sporer [= without spores]'. Annotation slip in box with handwritten collection number and habitat data also imprinted with 'North American Marine Algae' and 'Collected near Torbay, Newfoundland, August 21.-26., 1901'. Date on box marked only as 'viii.1901']; **TRH C20-3496**.
- Howe; [Canada]; Newfoundland, near Torbay; on rocks in tide pool; 21.-26.viii.1901 [but see Note]; [no slides]; New York Bot. Garden [NY] 988 [Howe collection number]; [no pfa]; [Note: box faintly marked 'Ingen konc. [= without conceptacles]'. Annotation slip in box with handwritten species name, collection number and habitat data also imprinted with 'North American Marine Algae' and 'Collected near Torbay, Newfoundland, August 21.-26., 1901'. Date on box marked only as 'viii.1901']; **TRH C20-3497**.
- Howe; [United States]; Maine, Georgetown; growing on '*L. compactum* (243)' [see C20-3499]; 31.vi.1900; [no slides]; New York Bot. Garden [NY] 2692 [Howe collection number]; [no pfa]; [Note: annotation slip in box with handwritten collection number, habitat, locality and date data and the name '*Lithothamnion*' also imprinted with 'North American Marine Algae' and 'August 24. - Sept. 3., 1900']; **TRH C20-3498**.
- Howe; [United States]; Maine, Georgetown, Stage Island; on rocks and shells in a tide pool; 31.viii.1900; one slide labelled with Howe collection number 243; New York Botanical Garden [NY], North Amer. Mar. Alg. number 243; [no pfa]; [Note: box marked 'Fotogr. [= photography]' and faintly marked 'Tømte konc. [= empty conceptacles]' and '*Cl. compactum* f. *circumscripta*'. Annotation slip in box with handwritten collection data also marked '*Lithothamnion compactum* Kjellm.' and also imprinted with 'North American Marine Algae' and 'August 24. - Sept. 3., 1900'. Drawer C20 also contains an envelope with a photograph marked 'New York Bot. Garden' and 'Nr 243' and '*Cl. compactum nærmest* [= nearest] f. *circumscripta*'. An annotation on the back of the photograph gives collection locality and indicated that the photographed specimen in **NY**. This photo does not constitute part of C20-3499]; **TRH C20-3499**.
- Howe; [United States]; Maine, Sequin Island; on shells in tide pool; 25.viii.1900; [no slides]; New York Bot. Garden [NY], North Amer. Mar. Alg. numbers 244 & 244a; [no pfa]; [Note: specimens numbered '244' and '244a'. Two annotation slips from Howe both have handwritten collection data and are imprinted with 'North American Marine Algae' and 'August 24. - Sept. 3., 1900'. One slip also is marked '244' by hand. Second slip is marked '244a' by hand. Third slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH C20-3500**.
- Jónsson; Island [= Iceland]; Hólmanes; collection depth: 12-14 fathoms; 18.vii.1898; [no slides]; Jónsson collection number 453; [no pfa]; [Note: box marked 'Flerp. konc. ca. 16 porer [= several-pored conceptacles ca 16 pores]' and 'Ingen sporer [= without spores]']; **TRH C20-3501**.

scabriusculum, Lithothamnion [originally described as *Lithothamnion scabriusculum* (Foslie 1895a: 170), but subsequently (Foslie 1905c: 88) considered a heterotypic synonym of *Phymatolithon compactum* (= *Clathromorphum compactum*). The type of *Lithothamnion scabriusculum* was found with other collections of *Clathromorphum compactum* in Foslie's herbarium. Collection listed under *C. compactum* in Adey & Lebednik 1967: 87].
Holotype: TRH, C20-3502 (see below).

Foslie; [Norway]; Finmarken, Kjelmø [now Finnmark, Kjelmøya]; collection depth: 5-10 fathoms; 2.viii.1887; slide 520 and three unnumbered slides; [no other collection data]; pfa: Foslie 1895a, pl. 22, fig. 9; [Note: **Holotype** of *Lithothamnion scabriusculum* Foslie. Additional data — Woelkerling 1993: 197. Box marked '*L. scabriusculum* = *compactum* – delvis [= in part]' and faintly marked '= *foecundum?*' and 'jfr. [= cf.] Farlow VI delvis [= in part]'. See C20-3447 for the other collection marked 'Farlow VI'. The pfa data on box incorrectly written 'Lith. pl. 23, fig. 9'. One annotation slip in box marked '*Lithothamnion* spec. mohi i gnolà' [meaning unclear] and 'Kjellm., 30.x.1889' in pen and 'Kjelmø, 2.viii.1887' and '5-10 fathoms' in pencil. Second slip in box marked 'Tømte konc. [= empty conceptacles]'. Third slip in box marked 'Smaa celler, daarligt snit [= small cells, not clear cut]'. Slide marked 'M.F. [= M. Foslie]'. Collection includes two fragments in a small box marked '520']; **TRH C20-3502.**

Case C, Drawer 21

During the present study, some notes that could not be matched to any collection were found in an envelope in Drawer C21. The notes and envelope have been placed in another envelope marked 'Loose notes found in Drawer C21'.

coalescens, Clathromorphum [originally described as *Lithothamnion coalescens* (Foslie 1895a: 162) after initial mention (Foslie 1894a: IX) without a description. Then (Foslie 1898b: 8) transferred without change in rank into *Clathromorphum*, then (Foslie 1900i: 10) reduced to the rank of forma and treated as *Clathromorphum circumscriptum* f. *coalescens*, then (Foslie 1905c: 88) transferred without change in rank from *Clathromorphum circumscriptum* into *Phymatolithon compactum* as *P. compactum* f. *coalescens*, and finally (Foslie 1908d: 12) species and forma transferred from *Phymatolithon* into *Clathromorphum* as *C. compactum* f. *coalescens*]. **Lectotype:** TRH, C21-3503 (see below).

[Anon.]; [Norway]; Trondheimsfjorden, Inderøen [now Inderøya]; [no habitat data]; 12.viii.1893 [but see Note]; slide 215, five unnumbered slides and one more recent slide; [no other collection data]; pfa: Foslie 1895a, pl. 19, [figs 15-20], and Printz 1929, pl. 41, figs 11-12; [Note: **Lectotype** of *Lithothamnion coalescens* Foslie. Additional data — Woelkerling 1993: 52 and Woelkerling 1998c: 334. Box and slide 215 dated 12.viii.1893 but five unnumbered slides dated 1.viii.1893. Box marked '(deraf [= of these] 1 = Norw. Lith. pl. 19'. Annotation slip in original box marked 'ca 12 sporer [= spores]'. Recently prepared slide marked '#1B' and '*Clathromorphum coalescens*' and 'Trondheimsfjord, 12.viii.1893'. Collection includes a blue quadratic box with five specimens and slide 215 and an annotation slip marked 'Tømte konc. [= empty conceptacles]'. Slide 215 marked 'Norw. Lith. pl. 19, f. 18 [= Foslie 1895a, pl. 19, fig. 18]'. Part of the lectotype collection, containing five of the six individuals depicted in the protologue, was listed under *Clathromorphum evanescens* in Adey & Lebednik 1967: 87]; **TRH C21-3503.**

compactum, Clathromorphum [originally described as *Lithothamnion compactum* (Kjellman 1883: 132) but subsequently (Foslie 1898b: 4) transferred without change in rank into

Clathromorphum, then (Foslie 1905c: 88) into *Phymatolithon* and finally (Foslie 1908d) back into *Clathromorphum*. Additional collections are in Drawer C20]. **Lectotype: TRH, C20-3470** (in Drawer C20).

- Foslie; [Norway]; Altenfjord [now Altafjorden], Sopnes; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. circ. – comp. (durum)*' and 'Sp. 2 og 4 delte [= sporangia 2- and 4-parted]']; **TRH C21-3504.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; collection depth: ca 6 fathoms; 2.vii.1887; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked '*Cl. compactum (durum)*' and 'Sp. konc. [= sporangia conceptacles]' and '4 delte sp. [= 4-parted sporangia]'. Annotation slip in box marked 'Smaa cell [= small cells]'. Slide marked '*L. validum compacta*' and 'Mehavn, 2.vii.1887']; **TRH C21-3505.**
- Foslie; [Norway]; Kristiansund, holmen udenf. [= the islet outside] Brunsvik [now Brunsvika]; 'Klph. [= rock pools] paa [= on] *Ph. polym.*'; 9.viii.1898; slide 382; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH C21-3506.**
- Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Borgosen; collection depth: 2-3 fathoms; ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. m. [= mixed with] *vardoense* og [= and] *L. comp.*'. Relevant collections of *L. vardoense* are C8-3072 – C8-3075]; **TRH C21-3507.**
- Foslie; [Norway]; Lofoten, Balstad, Leiskjæret [now Ballstad, Leiskjeret]; collection depth: 3-5 fathoms; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in an open box. One annotation slip in box marked 'Tømte konc. [= empty conceptacles]'. Second slip marked '*L. comp.?* (& *L. glac.*)'. Relevant collection of *L. glaciale* probably is B11-2320]; **TRH C21-3508.**
- Foslie; [Norway]; Tromsø; [no habitat data]; vi.1884; slide 218; [no other collection data]; pfa: Foslie 1895a, pl. 19, fig. 1; [Note: box marked '*L. comp. (& L. glac.)*' and 'Steril [= sterile]']; **TRH C21-3510.**
- Foslie; [Norway]; Lyngø [now Lyngøya] ved [= near] Tromsø; collection depth: 5-6 fathoms; 15.vi.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. circ. – comp.*' and 'Steril [= sterile]']; **TRH C21-3511.**
- Foslie; [Norway]; Trondheimsfjorden, Ytterøen [now Ytterøya], syd for [= south of] Salater; 'sten og klph. nederste vm. [= stone and rock pools lowest water mark]'; 7.viii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. comp. (durum?)*' and 'Steril [= sterile]']; **TRH C21-3509.**
- Gran; [Norway]; Bodø; [no habitat data]; viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. comp.?*' and 'Steril [= sterile]']; **TRH C21-3512.**
- Swenander; [Norway]; Hiteren, Bjørnevaag [now Hitra, Bjørnavågen]; collection depth: 20-40 metres; 3.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'sands. [= probably] *Cl. comp.*' and '(synes være flerp. konc. [= seems to be several-pored conceptacles]'. Annotation slip in box marked 'Ingen sp. [= without sporangia]' and 'Dyr [= animal]']; **TRH C21-3514.**
- [Anon.]; [Norway]; Kvæningen, Skorpen [now Skorpa]; collection depth: 10-15 fathoms; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. compactum (& L. glac.)*' and also faintly marked 'Ingen sp. [= without sporangia]'. Relevant collections of *L. glaciale* are B10-2294 and B10-2295]; **TRH C21-3515.**
- [Anon.]; [Norway]; Nymark, Tysnesøen [now Tysnesøya], syd for gaarden Tveit [= south of the Tveit farm]; collection level: '12-15 m o.h. [= metres above sea level], grustag ved veien [= gravel pit near the road]'; [no date]; slide 1588; [ex] Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked 'J. Oxaal ded. juli 1907 [= given by J. Oxaal July 1907]'. Slide marked 'subfossil [= subfossil]']; **TRH C21-3513.**

durum, Clathromorphum [originally described as *Lithothamnion durum* (Kjellman 1889: 22). Subsequently (Foslie 1898b: 8) transferred without change in rank into *Clathromorphum* as *C. durum*, then (Foslie 1900i: 10) treated as a heterotypic synonym of *Clathromorphum circumscriptum*, then (Foslie 1905c: 88) treated as a heterotypic synonym of *Phymatolithon compactum*, and then (Foslie 1908d: 14) again recognized as a distinct species of *Clathromorphum*, namely *C. durum*]. **Type:** apparently not designated (Woelkerling 1993: 81). **TRH** has two syntypes (C21-3516, C21-3517).

Kjellman; [United States]; Beringshaf [= Bering Sea], [Alaska], Port Clarence; on stone; vii.1879; slide 223; ex herb. Kjellman [**UPS**]; [no pfa]; [Note: **Syntype** of *Lithothamnion durum* Kjellman. Additional data — Woelkerling 1993: 81. Box marked ‘ ‘Orig. expl. [= original specimen]’ ’. Annotation slip in box marked ‘Skorpe – paa sten ca 5 cm i diam. [= crust – on stone ca 5 cm in diameter]’. Slide 223 marked ‘*L. durum* Kjellm.’ and ‘Beringshavet [= Bering Sea], Port Clarence, vii.1879’ and ‘Typeekspl. [= type specimen]’. See Woelkerling 1993: 81 for further information on the type status of the material. Grouped with C21-3517 under one entry in Adey & Lebednik 1967: 87]; **TRH C21-3516**.

Kjellman; [United States]; ‘Arktiska Amerika [= Arctic America]’, [Alaska], Port Clarence; [no habitat data]; vii.1879; slide 224; Vega Expedition 1878-1880, ex herb. Kjellman [**UPS**]; pfa: box marked ‘= Afbildn. [= pictured] Beringh. [= Bering Sea] Alg. pl. 1 [= Kjellman 1889, pl. 1]’; [Note: **Syntype** of *Lithothamnion durum* Kjellman. Additional data — Woelkerling 1993: 81. Annotation slip in box marked ‘+ lidet ind. af *L. tenue* Kjellm. [= + small specimen of *L. tenue* Kjellm.]’. Grouped with C21-3516 under one entry in Adey & Lebednik 1967: 87]; **TRH C21-3517**.

durum, Lithothamnion. See listing above for ***durum, Clathromorphum***

evanescens, Clathromorphum [originally described as *Lithothamnion evanescens* (Foslie 1895a: 165), then (Foslie 1898b: 8) transferred without change in rank into *Clathromorphum*, then (Foslie 1905c: 92) into *Phymatolithon*, and finally (Foslie 1908d: 12) transferred without change in rank back into *Clathromorphum*]. **Lectotype:** TRH, C21-3518 (see below).

Collins, F.S.; U.S. Amerika [= United States]; Massachusetts, Marblehead; just below low water mark; iv.1889; slides 221, 968 and three unnumbered slides; Collins collection C; pfa: Foslie 1895a, pl. 22, fig. 6, and Printz 1929, pl. 41, fig. 13; [Note: **Lectotype** of *Lithothamnion evanescens* Foslie. Additional data — Woelkerling 1993:87. Annotation slip in box marked ‘2 delte sp. [= 2-parted sporangia]’ and ‘tømte konc. [= empty conceptacles]’. One unnumbered slide marked ‘#5’ and ‘*Clathromorphum evanescens*’ and ‘Marblehead, Mass., USA, Apr. 1889’. Adey & Lebednik 1967: 87 omit mention of slides, the Collins collection letter, and the pfa data for Foslie 1895a]; **TRH C21-3518**.

[Anon.]; [Norway]; Tromsø amt. [= Tromsø County], Malangen, Mestervik; [no habitat data]; 20.ix.1890; slide 222 [but see Note]; [no other collection data]; pfa: Foslie 1895a, pl. 23, fig.7; [Note: box and slide marked ‘*L. evanescens?*’. Slide and one annotation slip with cell measurements marked ‘222’ but box marked ‘232’. Second annotation slip marked ‘*L. circumscr.?*’ and ‘Mestervik, 20.ix.1890’]; **TRH C21-3519**.

loculosum, Clathromorphum [originally described as *Lithothamnion loculosum* (Kjellman 1889: 21), then (Foslie 1898: 8) transferred without change in rank into *Clathromorphum*, then (Foslie 1905c: 92) into *Phymatolithon*, and finally (Foslie 1908d: 12) transferred without change in rank back into *Clathromorphum*]. **Lectotype:** TRH, C21-3520 (see below).

Greeley and Snodgrass; [United States]; [Alaska], Bering Sea, Pribilof Islands, St. Paul; [no habitat data]; 1896-1897; slide 879; ‘prøve af ekspl. fra Setchell 1903 [= sample of

specimen from Setchell 1903], Setchell collection number 5811; [no pfa]; [Note: box marked '*Cl. circumscriptum loculosum*'. One annotation slip marked 'Beringshavet [= Bering Sea]' and '#5811' by hand and also imprinted with 'Algae of the Pribilof Islands' and 'U.S. Fur Seal Com'sion, David Starr Jordan, Com'r 1896-7' and 'Col. A.W. Greeley and R.E. Snodgrass' and 'Det. William A. Setchell' and 'St. Paul Island'. Another annotation slip marked 'Ingen konc. [= without conceptacles]'. Adey & Lebednik 1967: 87 mistakenly list 'Setchell' as the collector and mistakenly associate the collection number with **NY**]; **TRH C21-3522**.

Kjellman; [Russia]; [Komandorskiye Ostrova [= Commander Islands], Beringsøn, [= Bering Island (Russian: Ostrov Beringa)]; [no habitat data]; [no date]; slide 220 and two newer slides marked '3' and '4' respectively; Vega Expedition; pfa: Printz 1929, pl. 41, fig. 17; [Note: **Lectotype** of *Lithothamnion loculosum* Kjellman. Additional data — Lebednik 1977: 71, 73, and Woelkerling 1993: 139. Determinavit slip of P.A. Lebednik affixed to newer box. Newer box contains a larger original box and a small original box. Large original box marked '*L. loculosum* f. *typica*'. Small original box contains one fragment and is marked '220']; **TRH C21-3520**.

Kjellman; [United States]; [Alaska], Beringshavet [= Bering Sea], St. Lawrence øen [= Island]; [no habitat data]; [no date]; [no slides]; Vega Expedition; [no pfa]; [Note: determinavit slip of P.A. Lebednik affixed to box and marked 'Paratypus'. Additional information: Lebednik 1977: 79]; **TRH C21-3521**.

Yendo; Japan; Kurilerne [= Kurile Islands], Shimushu; [no habitat data]; 25.vi.1903; slide 870; [no other collection data]; pfa: Printz 1929, pl. 41, figs 18-19; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Collection includes photocopy of part of a letter from Yendo to Foslie that contains further information about the specimen. Grouped with the lectotype of *Phymatolithon loculosum* f. *evanida* (C21-3525) under one entry in Adey & Lebednik 1967: 87]; **TRH C21-3523**.

loculosum, Phymatolithon (f. evanida) [originally described as *Phymatolithon loculosum* f. *evanida* (Foslie 1905c: 93), but not mentioned in Foslie's subsequent publications. Collections, however, marked *Clathromorphum loculosum* f. *evanida*. Collections listed in Adey & Lebednik 1967: 87 under *Clathromorphum loculosum* without mention of forma]. **Lectotype:** TRH, C21-3525 (see below).

Yendo; Japan; Kurilerne [= Kurile Islands], Etorufu [= Etotofu Island], Rubetsu; collection depth: a few feet below low water mark; 7.vi.1903; slide 872; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 16; [Note: one annotation slip in box marked 'The specimen from Rubetsu (the north-side port of the largest Island of Kuriles called Etotofu). It was a few feet below low water mark'. Second annotation slip marked 'Tømte og ikke tømte konc. [= empty and not empty conceptacles]'. Third annotation slip marked 'Nærmer sig *Cl. locul.* hensyn str. men cell. dog gjg. mindre end hos den sidste [= grading into *Cl. locul.* regarding to structure but cells mainly smaller than the last one]']; **TRH C21-3524**.

Yendo; Japan; Kurilerne [= Kurile Islands], Shimushu; [no habitat data]; 25.vi.1903; one small slide numbered 871 and nine larger slides marked '= præp. [= slide] 871'; [no other collection data]; [no pfa]; [Note: **Lectotype** of *Phymatolithon loculosum* f. *evanida* Foslie. Additional data — Woelkerling 1993: 87. Box marked 'Sp. 4 delte [= sporangia 4-parted]' and 'Afk. præp. [= decalcified slide]'. Annotation slip in box marked 'Struktur som hos [= structure as with] *comp.*' and 'Præp. [= slide] 871'. Second annotation slip marked 'Gode tømte og ikke tømte konc. [= good empty and not empty conceptacles]' and 'til fotogr. [= for photography]' and 'Præp. [= slide] 871'. All slides lack mention of the forma name '*evanida*'. Grouped with a collection of *Clathromorphum loculosum* (C21-3523) under one entry in Adey & Lebednik 1967: 87]; **TRH C21-3525**.

testaceum, Clathromorphum [originally described as *Lithothamnion testaceum* (Foslie 1895a: 135), then (Foslie 1898b: 8) transferred without change in rank into *Clathromor-*

phum as *C. testaceum*, then (Foslie 1900i: 10) reduced to the rank of forma and treated as *Clathromorphum compactum* f. *testacea*, then (Foslie 1905c: 88) species and forma transferred from *Clathromorphum* into *Phymatolithon* as *P. compactum* f. *testacea*, and finally (Foslie 1908d: 14) re-elevated to species rank and transferred back into *Clathromorphum* as *C. testaceum*]. **Holotype:** TRH, C21-3527 (see below).

Foslie; [Norway]; Trondheimsfjorden, Asenfj. [now Åsenfjorden], Fløan, Storholmen; 'klph. nedre del fj. [= rock pools lower part of the tidal zone]'; 10.viii.1896; slides 281-282; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 15; [Note: box marked '~~L. comp.~~ *Cl. testaceum*' and 'Sp. 4 delte [= sporangia 4-parted]'. Box marked '~~L. comp.~~ *Cl. testaceum*' but slide 281 marked '*Cl. compactum* og [= and] *Ph. polym.*', and slide 282 marked '*Cl. compactum*'. One annotation slip marked '*L. comp.*'. Second annotation slip marked '*L. comp.*?' and 'Obs. koncept.! [= observed conceptacles!]' and 'ca. 18 porer [= ca 18 pores]'. Both slides also marked with locality data. Collection includes fragments in a small round box marked '281']; **TRH C21-3526.**

[Anon.]; [Norway]; Finmarken [now Finnmark], Bergsfjord; 'klph. springfl. ebbe [= rock pools spring ebb tide]'; 2.viii.1891 [but see Note]; slide 219 and one unnumbered slide; [no other collection data]; pfa: Foslie 1895a, pl. 19, figs 5-9, and Printz 1929, pl. 41, fig. 14; [Note: **Holotype** of *Lithothamnion testaceum* Foslie. Additional data — Woelkerling 1993: 222, and Woelkerling & Verheij 1995: 80, and Woelkerling 1998c: 363. Collection consists of a larger green quadratic box and two small round boxes. Larger box marked 'Sp. 4 delte [= sporangia 4-parted]'. Larger box and slide 219 dated 2.viii.1891 but unnumbered slide dated 21.viii.1891. Both slides marked '(*L. testaceum*) *Cl. compactum* f. *testacea*' and unnumbered slide also marked '*L. polym.*'. One small box contains one fragment and is marked 'Præp. [= slide] Anderss. 219' and '*L. testaceum*'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Second small box contains two fragments and is marked 'Bergsfjord, 2.viii.1891' and '*L. testaceum*' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C21-3527.**

Inadequately documented collection. The following inadequately documented collection was found in Drawer C21 during the present study.

[Anon.]; [geographic region uncertain]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen housed in a brown box. Collection not included in Adey & Lebednik 1967]; **TRH C21-3870.**

Case C, Drawer 22

circumscriptum, *Clathromorphum* [originally described as *Lithothamnion circumscriptum* (Strömfelt 1886: 20) but subsequently (Foslie 1898a: 5) transferred without change in rank into *Clathromorphum*, then (Foslie 1905c] reduced to the rank of forma and transferred into *Phymatolithon* as *P. compactum* f. *circumscripta*, and then (Foslie 1908a: 210, Foslie 1908d: 11) species and forma transferred without change in rank into *Clathromorphum* as *C. compactum* f. *circumscripta*. Names on collections in this Drawer given either as *L. circumscriptum* or *C. circumscriptum* without reference to a reduction in taxonomic rank to forma. Additional collections occur under *Clathromorphum compactum* f. *circumscriptum* in Drawer C20]. **Type:** not designated (Lebednik 1977: 64). There is no syntype material in **TRH**.

- Børgesen; Færøerne [= Faeroe Islands]; Strømmø, Sundelaget; [no habitat data]; 15.vi.1900; [no slides]; Børgesen collection number 1790; [no pfa]; [Note: box marked '*Lithoph. orbic.*?'. Annotation slip in box marked 'Synes være enporede men ej sikkert [= seems to be uniporate but not certain]']; **TRH C22-3528.**
- Collins, F.S.; United States; Maine, Casco Bay; [no habitat data]; 1903; [no slides]; number 4915A, B, C, D; [no pfa]; [Note: annotation slip in box marked 'tømte konc. [= empty conceptacles]']; **TRH C22-3529.**
- Collins; [United States]; Maine, Spectacle Island; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C22-3530.**
- Collins, F.S.; [United States]; Massachusetts, Revere Beach; on shell of live crab; 1898; [no slides]; Collins collection number 571; [no pfa]; [Note: box marked '*L. circumscr.* (og [= and] *L. laeve?*)']; **TRH C22-3531.**
- Davidsson; Island [= Iceland]; Arnarnes; [no habitat data]; 24.xi.1897; [no slides]; ex Bot. Mus. Kbh. [C], 1889 [probably an error for 1899]; [no pfa]; [Note: box marked '4 og 2 delte sp. [= 4- and 2-parted sporangia]'. Annotation slip in box marked 'flerporede konc. [= several-pored conceptacles]'. Adey & Lebednik 1967: 88 report that two boxes occur but only one was found during the present study]; **TRH C22-3533.**
- Davidsson; Island [= Iceland]; Gásir; [no habitat data]; 11.i.1898; [no slides]; ex Bot. Mus. Kbhavn [C]; [no pfa]; [Note: collection consists of a newer brown box containing an original quadratic box and an original smaller box with an annotation slip. Original quadratic box marked 'Tømte konc. [= empty conceptacles]'. Material in smaller box and accompanying annotation slip rediscovered during present study. Annotation slip has collection information and is marked 'Tømte konc. [= empty conceptacles]' but lacks mention of 'Bot. Mus. Kbhavn' [C]]; **TRH C22-3532.**
- Davidsson; Island [= Iceland]; Glæsibær; [no habitat data]; 22.ii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tømte konc [= empty conceptacles]']; **TRH C22-3537.**
- Davidsson; Island [= Iceland]; Hjalteyri; [no habitat data]; ix.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 8; [Note: box marked 'sp. 2 delte [= sporangia 2-parted]' and '2 ekspl. seint i septbr. 1897 øvrige uden dato og anden tid [= two specimens late in September 1897 the rest without date and another time]']; **TRH C22-3534.**
- Davidsson; Island [= Iceland]; Hranakrøkur; 'paa [= on] *Laminaria*'; 14.viii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. circumscr.* (?)']; **TRH C22-3535.**
- Davidsson; Island [= Iceland]; Hraun in Fljót; 'paa stipes af [= on stems of] *Lam. hyp. ell.* [= or] *dig.*'; 1897; [no slides]; ex herb. Bot. Mus. Kbh. [C], number 4; [no pfa]; [Note: box marked 'Konc. ca. 6 porer! [= conceptacles ca 6 pores!]' and faintly marked '2 delte sp. [= 2-parted sporangia]']; **TRH C22-3536.**
- Dircks; Spitsbergen; Kong Canes Land [probably King Carls Land]; [no habitat data]; 31.vii.1901; [no slides]; [no other collection data]; [no pfa]; [Note: collection listed by Adey & Lebednik 1967: 88 but not found during present study. The Adey & Lebednik 1967: 88 entry under *Clathromorphum circumscriptum* (numbered C22-3539 here) is virtually the same as the Adey & Lebednik (1967: 86) entry under *Clathromorphum compactum* (C20-3446), but it is not possible to determine conclusively whether the two entries pertain to the same collection]; **TRH C22-3539.**
- Dircks; [Norway]; Kvalsund ved [= near] Tromsø; [no habitat data]; 20.iv.1901; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ikke sp. Dyr. i konc.! [= no sporangia. Animals in conceptacles]'. Annotation slip in box marked 'Ingen sporer [= without spores]'. Adey & Lebednik 1967: 88 mistakenly list the collector as 'Foslie']; **TRH C22-3538.**
- Foslie; [Norway]; Finmarken, Havøsund [now Finnmark, Havøysund]; [no habitat data]; viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 2 delte [= sporangia 2-parted]']; **TRH C22-3541.**
- Foslie; [Norway]; Finmarken [now Finnmark], Helnes udenfor [= outside] Kjelvik; [no habitat data]; 3.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Ingen sporer [= without spores]']; **TRH C22-3547.**

- Foslie; [Norway]; Finmarken [now Finnmark], Russesund, Hjelmsø [now Hjelmsøya]; 'grunde klph. midtre vm., local men i mgd. – udsat sted [= shallow rock pools middle water mark, local but in abundance – exposed place]'; 17.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Cl. circumscr. sammenv. med* [= coalesced with] *comp.*' and 'Ingen konc. [= without conceptacles]'. Grouped with C22-3543 under one entry in Adey & Lebednik 1967: 88. The *Lithothamnium Selecta Exsiccata* (see Chapter 6) contains a collection labelled *Phymatolithon compactum* f. *circumscripta* (the name used in Foslie1905c) from same locality (listing the modern name Finnmark, Måsøy, Hjelmsøy) but dated 17.vii.1901]; **TRH C22-3542.**
- Foslie; [Norway]; Finmarken [now Finnmark], Russesund, Hjelmsø [now Hjelmsøya]; 'grunde klph. midtre vm., local men i mgd. – udsat sted [= shallow rock pools middle water mark, local but in abundance – exposed place]'; 17.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 6; [Note: box marked '(s. med [= mixed with] *Cl. comp.* – i særsk. æske [= in distinct box])'. Box also marked 'Dbl. gangsk. [= duplicates in corridor cabinet]'. Grouped with C22-3542 under one entry in Adey & Lebednik 1967: 88. The *Lithothamnium Selecta Exsiccata* (see Chapter 6) contains a collection labelled *Phymatolithon compactum* f. *circumscripta* (the name used in Foslie1905c) from same locality (listing the modern name Finnmark, Måsøy, Hjelmsøy) but dated 17.vii.1901]; **TRH C22-3543.**
- Foslie; [Norway]; Finmarken, Kjelmsø [now Finnmark, Kjelmsøya], ydre side [= outer side]; collection depth: 5-10 fathoms; 2.viii.1887; one recently prepared slide marked '#4'; [no other collection data]; [no pfa]; [Note: box marked '*L. circumscr.?*' and '*Clathromorphum compactum*'. Slide '#4' marked '*Clathromorphum circumscriptum*' and 'Finnmark, 2.viii.1887']; **TRH C22-3548.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik; collection depth: 0.5 fathoms; 4.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. 2 delte [= sporangia 2-parted]' and '= præp. [= slides] 383-384'. The slides, however, are housed with C22-3545. Grouped with C22-3545 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3544.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik; collection depth: 0.5 fathoms; 4.viii.1897; slides 383-384; [no other collection data]; [no pfa]; [Note: large original box marked 'Sp. 2 delte [= sporangia 2-parted]'. Collection includes fragments in two small boxes, one marked '383' and the other marked '384'. Grouped with C22-3544 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3545.**
- Foslie; [Norway]; Finmarken [now Finnmark], Kvalsund; [no habitat data]; 15.vii.1891; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C22-3549.**
- Foslie; [Norway]; Finmarken, Loppen [now Finnmark, Loppa]; [no habitat data]; 24.v.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles]']; **TRH C22-3550.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; [no habitat data]; 31.v.1882; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C22-3553 and C22-3554 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3552.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; collection depth: ca 6 fathoms; 2.vii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C22-3552 and C22-3554 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3553.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; 'klp. huller [= rock pools]'; viii.1887; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C22-3551.**
- Foslie; [Norway]; Finmarken, Mehavn [now Finnmark, Mehamn]; [no habitat data]; viii.1887 [but see Note]; slide 214; [no other collection data]; pfa: Printz 1929, pl. 41, fig. 7; [Note: box dated viii.1887 but slide dated viii.1882. Collection includes conceptacle-bearing fragments in a small plastic bag rediscovered during the present study. Grouped with C22-3552 and C22-3553 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3554.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; 'øverste sublit. [= uppermost sublittoral]'; 16.viii.1897; [no slides]; [no other collection

- data]; [no pfa]; [Note: box marked '*L. circumscr. (durum)*' and 'Sp. 2 og 4 delte [= sporangia 2- and 4-parted]'. Grouped with C22-3556 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3555.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes], vestsiden [= western side]; on stones, 'springfl. ebbe [= spring ebb tide]' [also see Note]; 14.viii.1897; slide 381; [no other collection data]; [no pfa]; [Note: collection housed in a large original quadratic box. Quadratic box marked 'Ikke sp. [= no sporangia]'. Annotation slip in quadratic box marked with locality and date data and with '*Lith. comp., Lith. circ.: Alm. klp. fra nederste vm. og nedover. Er begge arter men comp. vistn. overvejende, ngl. ekspl. paa smaa stene [= Lith. comp., Lith. circ.: Common on rock from lowest water mark and downwards. Both species but comp. most common, some specimens on small stones]*'. Second annotation slip marked 'Paa stene [= on stones]'. Larger quadratic box includes two fragments in a small box marked '381'. Grouped with C22-3555 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3556.**
- Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C22-3557.**
- Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depth: 0.5 fathoms, on *Mytilus*; 21.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked with collection and habitat data]; **TRH C22-3558.**
- Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; collection depth: 10-15 fathoms; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Cl. circumscr. (s. med [= mixed with] L. glac. & L. laeve)*' and faintly marked 'Ingen sp. [= without sporangia]'. Relevant collection of *L. glaciale* is B11-2311 and relevant collection of *L. laeve* is B4-1805]; **TRH C22-3560.**
- Foslie; [Norway]; Malangen, Mestervik; [no habitat data]; 1890; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C22-3561.**
- Foslie; [Norway]; Tromsø, Grindø [now Grindøya]; [no habitat data]; 30.viii.1897; [no slides]; collection depth: 20 fathoms; [no pfa]; [Note: collection listed by Adey & Lebednik 1967: 88 (who mistakenly place Tromsø in Finnmark, but not found during present study)]; **TRH C22-3559.**
- [Foslie]; [Norway]; Trondheimsfjorden, Vanvik [now Vanvikan]; 'klph. nedre del fj. [= rock pools lower part of the tidal zone]'; 1.viii.1898; slide 324; [no other collection data]; [no pfa]; [Note: large original box marked 'Ingen konc. [= without conceptacles]' and '*Cl. circumscr.? (s. med [= mixed with] polym.)*'. Annotation slip with cell measurements also marked 'Ligner præp. [= looks like slide] 214, Mehavn' and 'Lidt mindre cell. end præp. 281, 282, 219 [= some smaller cells than slides 281, 282, 219]'. Collection includes two fragments in a small box marked '324'. Grouped with C22-3563 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3562.**
- [Foslie]; [Norway]; Trondheimsfjorden, Vanvik [now Vanvikan]; 'klph. nedre del fj. [= rock pools lower part of the tidal zone]'; 1.viii.1898; one more recently prepared slide marked '#3'; [no other collection data]; [no pfa]; [Note: box marked '*Cl. circumscr.? (durum)*' and '(s. med [= mixed with] polym.)' and '(tildels overv. konc. [= in part overgrown conceptacles])' and '4 delte sp. [= 4-parted sporangia]'. Slide '#3' marked '*Clathromorphum circumscriptum*' and 'Trondheimsfjord' and '1.viii.1898'. Grouped with C22-3562 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3563.**
- Hartz; Grønland [= Greenland]; Holstensborg; collection depth: 12 fathoms; 20.vi.1890; [no slides]; [no other collection data]; [no pfa]; [Note: box lid marked with collection data and with '*Lithoth. circumscriptum* Strømf. β *validum* Rosenv.' and 'et *Peyssonnelia rosenvingii*'. *Lithothamnion circumscriptum*. β *validum* is a superfluous name for *Lithoth. circumscriptum*. f *circumscriptum*. Annotation slip in box has handwritten collection data and also is printed with 'Plantae groenlandicae, a Museo botanico Hauniensi distributae [= Greenland Plants distributed from the Botanical Museum Copenhagen]' [C]. Collection not included in Adey & Lebednik 1967]; **TRH C22-2933.**

- Holden; [Canada]; Newfoundland, Conception Bay; [no habitat data]; 1897; [no slides]; collection number 1297A; [no pfa]; [no notes]; **TRH C22-3565.**
- [Jessen]; Grønland [= Greenland]; mell. [= between] Langø og [= and] Nanortalik, '60° 7'; littoral region; 30.iv.1894; [no slides]; collection number 21; [no pfa]; [Note: box marked '*L. circumscr. (durum)*' and '2 og 4 delte sp. [= 2- and 4-parted sporangia]'. Collection cited by Rosenvinge 1898: 14 where 'Jessen' is listed as collector]; **TRH C22-3566.**
- Jónsson; Island [= Iceland]; Brinnes; [no habitat data]; 12.vi.1898; [no slides]; Jónsson collection number 95; [no pfa]; [Note: box faintly marked 'Tømte konc. [= empty conceptacles]']; **TRH C22-3568.**
- Jónsson; Island [= Iceland]; N.V. [= north-west] Iceland, Bildudalur; [no habitat data]; 7.v.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles]']; **TRH C22-3567.**
- Jónsson; Island [= Iceland]; Selstadaum; collection depth: 8-19 fathoms; 16.vi.1898; [no slides]; collection number 135; [no pfa]; [Note: collection listed by Adey & Lebednik 1967: 88 but not found during present study. The Adey & Lebednik 1967: 88 entry under *Clathromorphum circumscriptum* (numbered C22-3569) is virtually the same as the Adey & Lebednik (1967: 86) entry under *Clathromorphum compactum* (C20-3468), but it is not possible to determine conclusively whether the two entries pertain to the same collection]; **TRH C22-3569.**
- Rosenvinge; Grønland [= Greenland]; Godthaab; [no habitat data]; 23.vi.1886; [no slides]; Rosenvinge collection number 87; [no pfa]; [Note: box marked '*L. circumscr. α areolatum*' and 'Tømte konc. [= empty conceptacles]'. Annotation slip in box with handwritten collection data also imprinted with 'Plantae groenlandicae, a Museo botanico Hauniensi distributae [= Greenland plants distributed from Museo botanico Hauniensi]'. Museo botanico Hauniensi is an old Latin name for the Botanical Museum Copenhagen [C]. Grouped with C22-3571 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3570.**
- Rosenvinge; Grønland [= Greenland]; Godthaab; collection depth: ca 10 fathoms; 30.vi.1886; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithothamnion circumscriptum* Strømf. α *areolatum* Rosenv. & β *validum*. Rosenv.' and '= *L. comp.*' and 'Ingen sp. [= without sporangia]'. Annotation slip in box with handwritten collection data also imprinted with 'Plantae groenlandicae, a Museo botanico Hauniensi distributae [= Greenland plants distributed from Museo botanico Hauniensi]'. Museo botanico Hauniensi is an old Latin name for the Botanical Museum Copenhagen [C]. Grouped with C22-3570 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3571.**
- Saunders; [United States]; [Alaska], Kukak Bay; [no habitat data]; 5.vii.1899; [no slides]; Harriman Alaska Expedition, Plants of the Alaskan Peninsula, number 442; [no pfa]; [Note: box marked '*Clathrom. circumscript. vel ej* [= perhaps not] *locul.?*']; **TRH C22-3572.**
- Saunders; [United States]; [Alaska], Sitka; [no habitat data]; 16.vi.1899; [no slides]; Harriman Alaska Expedition, Plants of Baranoff Island, number 439; [no pfa]; [Note: box marked 'Steril [= sterile]']; **TRH C22-3573.**
- Saunders; [United States]; [Alaska], Sitka; [no habitat data]; 16.vi.1899; [no slides]; Harriman Alaska Expedition, Plants of Baranoff Island, number 441; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. i tversnit [= without conceptacles in cross-section]']; **TRH C22-3574.**
- Setchell; [United States]; [Alaska], Unalaska; on stones, middle littoral zone; vi.-viii.1899; [no slides]; Setchell collection number 4022, ex herb. of the Univ. of California [UC], Botanical Expedition to Alaska 1899; [no pfa]; [Note: annotation slip in box marked 'Synes ogsaa være enporede konc.! [= seems also to be uniporate conceptacles!']'. Grouped with C22-3576 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3575.**
- Setchell; [United States]; Alaska, Unalaska; on pebbles in tide pool; vi.-viii.1899; [no slides]; Setchell collection number 4081a, ex herb. of the Univ. of California [UC], Botanical Expedition to Alaska 1899; pfa: Printz 1929, pl. 41, fig. 10; [Note: grouped with C22-3575 under one entry in Adey & Lebednik 1967: 88]; **TRH C22-3576.**

- Waghorne; [Canada]; Newfoundland, Bay of Islands; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. circumscr.*?' and '2 delte sp. [= 2-parted sporangia]' and 'koncept [= conceptacles]'. Grouped with C22-3578 under one entry in Adey & Lebednik 1967: 88. Adey & Lebednik report three boxes but only two were found during the present study]; **TRH C22-3577.**
- Waghorne; [Canada]; Newfoundland, Bay of Islands, Little Harbour; [no habitat data]; 2.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 delte sp. [= 2-parted sporangia]'. Grouped with C22-3577 under one entry in Adey & Lebednik 1967: 88. Adey & Lebednik report three boxes but only two were found during the present study]; **TRH C22-3578.**
- [Anon.]; [Canada]; Nova Scotia, Halifax Harbour, Point Pleasant; a loose pebble thrown up by the waves; [no date]; [no slides]; comm. A.H. Mackay 1897, number 6; [no pfa]; [Note: box marked 'Konc. – ej sp. [= conceptacles – no spores]'. Annotation slip in box also marked 'Ej sporer [= no spores]'. Collection not included in Adey & Lebednik 1967]; **TRH C22-3579.**
- [Anon.]; [Iceland]; Grjótnes; 'paa [= on] *Chaetomorpha melagonium* i fjærkuller [= in pools in the tidal zone]'; 26.vii.1896; [no slides]; ex. Bot. Mus. Kbhavn [C], 21.v.1902 [the date the collection was sent to Foslie]; [no pfa]; [Note: box marked '*Clathrom. circumscr.*?' and 'Ingen konc. [= without conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C22-3580.**
- [Anon.]; [Norway]; Balsfjord ved [= near] Tromsø; [no habitat data]; v.1876; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 88 incorrectly place this locality in 'Finnmark', and they list 'Foslie' as the collector, but this is not indicated on the box]; **TRH C22-3540.**
- [Anon.]; [Norway]; Tamsø [now Tamsøya]; collection depth: ca 4 fathoms; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen sp. [= without sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH C22-3581.**
- [Anon.]; [Norway]; Trondheimsfjorden, Vanvik [now Vanvikan], Bergsvik; 'klph. nederste vm. [= rock pools lowest water mark]'; 15.vii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Tømte konc. [= empty conceptacles]'. Adey & Lebednik 1967: 88 list Foslie as the collector, but this is not indicated on the box]; **TRH C22-3564.**
- [Anon.]; Spitsbergen; Norskøerne [now Norskøyene] - Amsterdamøen [now Amsterdamøya] [= the Norwegian Islands - Amsterdam Island]; [no habitat data]; 1894; slide 380; [no other collection data]; [no pfa]; [Note: box marked 'S. med. [= mixed with] *L. glac. (colic.) & laeve*' and 'Ingen sporer [= without spores]'. Relevant collection of *L. laeve* is B4-1833. Relevant collection of *L. glaciale* probably is B9-2241. Collection not included in Adey & Lebednik 1967]; **TRH C22-3582.**

Case C, Drawer 23

emboloides, *Lithothamnion*. See listing in Drawer C25.

polymorphum*, *Phymatolithon [originally published as *Millepora polymorpha* (Linnaeus 1767: 1285), but as a superfluous substitute and thus **illegitimate name** for *Millepora calcarea* (Pallas 1766: 265) (full details provided by Woelkerling & Irvine 1986a: 66). Subsequent superfluous and thus illegitimate combinations involving the epithet *polymorphum* include transfers into the genera *Apora* (Gunnerus 1768: 71), *Nullipora* (Nardo 1834: 675), *Pocillopora* (Ehrenberg 1834: 353), *Spongites* (Kützing 1849: 699), *Melobesia* (Harvey 1849a: 110), *Lithothamnion* (Areschoug 1852: 524), *Phymatolithon* (Foslie 1898a: 4) and *Eleutherospora* (Heydrich 1900c: 65). After 1898 Foslie retained the name *Phymatolithon polymorphum* but Woelkerling & Irvine (1986a: 68-71) have shown that Foslie and others have misapplied the epithet *polymorphum* to plants that correctly be-

long to *Phymatolithon purpureum* (P.L. & H.M. Crouan) Woelkerling & L. Irvine (Basionym: *Lithothamnion purpureum* P.L. & H.M. Crouan 1867: 150). Additional collections labelled *Phymatolithon polymorphum* are in Drawer C24].

- Boye; [Norway]; Sogn, Sulen [now Sula], indre [= inner] Stensund [now Steinsund]; [no habitat data]; vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C23-3584 under one entry in Adey & Lebednik 1967: 89, who mistakenly list the collector as 'Borge']; **TRH C23-3583.**
- Boye; [Norway]; Sogn, Sulen [now Sula], indre [= inner] Stensund [now Steinsund]; 'besk. lok – paa det bratte kalkhammerfjeld [= protected locality – on the steep calcareous rock]'; vii.1894; [no slides]; collection number 49; [no pfa]; [Note: box marked '*L. polymorphum?*' and '*myxoph. lille stk. [= myxoph. small piece]*'. Grouped with C23-3583 under one entry in Adey & Lebednik 1967: 89, who mistakenly list the collector as 'Borge']; **TRH C23-3584.**
- Foslie; [Norway]; Bjugn, Bjugnholmen; collection depth: 0.5-2 fathoms, 'alm. paa sten [= usually on stones]'; 5.viii.1908; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3585.**
- Foslie; [Norway]; Balsfjord, Tromsø; [no habitat data]; v.1876; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box with locality and date data also marked 'S. med [= mixed with] *compact. – circ.*' and '*Ph. polym. – konc. omtr. som Tamsø-formen og ej overv. [= Ph. polym. – conceptacles almost as the form of Tamsø and not overgrown]*'. Adey & Lebednik 1967: 89 incorrectly place this locality in 'Finnmark']; **TRH C23-3586.**
- Foslie; [Norway]; Finmarken, Berlevaag [now Finnmark, Berlevåg]; 'klph. [= in rock pools]'; 16.vi.1899 [but see Note]; slide 188; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Collection date on box is 16.vi.1889, but on slide is 16.vii.1889]; **TRH C23-3587.**
- Foslie; [Norway]; Finmarken [now Finnmark], Galten; 'nederste vm, skjæret [= lowest water mark, the skerry]'; 1.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 39, fig. 6; [Note: box marked '*Ph. polym. intermedia f. heteroclada*' and 'Sp. konc. [= sporangial conceptacles]']; **TRH C23-3588.**
- Foslie; [Norway]; Finmarken, Havningsberg [now Finnmark, Hamningberg]; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3589.**
- Foslie; [Norway]; Finmarken, Havøsund [now Finnmark, Havøysund]; [no habitat data]; 1.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Steril [= sterile]'. Grouped with C23-3591 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3590.**
- Foslie; [Norway]; Finmarken, Havøsund [now Finnmark, Havøysund]; [no habitat data]; 1.viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'Delvis konc. [= in part conceptacles]'. Annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C23-3590 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3591.**
- Foslie; [Norway]; Finmarken, Havøsund [now Finnmark, Havøysund]; [no habitat data]; 1.viii.1882; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 16, fig. 9; [Note: annotation slip in box contains collection details. Collection not included in Adey & Lebednik 1967]; **TRH C23-3592.**
- Foslie; [Norway]; Finmarken, Hjelmsø, Sortvik [now Finnmark, Hjelmsøya, Svartvik], indenfor ved holmen [= within the islet]; collection depth: ca 1 fathom, 'nederste vm. [= lowest water mark]'; 15.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'konc. [= conceptacles]'. Grouped with C23-3596 under one entry in Adey & Lebednik 1967: 88, who mistakenly list the locality as 'Kjelmø']; **TRH C23-3597.**
- Foslie; [Norway]; Finmarken, Hjelmsø, Sortvik [now Finnmark, Hjelmsøya, Svartvik]; collection depth: ca 1 fathom; 16.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C23-3597 under one entry in Adey & Lebednik 1967: 88, who mistakenly list the locality as 'Kjelmø']; **TRH C23-3596.**

- Foslie; [Norway]; Finmarken, Honningsvaag [now Finnmark, Honningsvåg]; collection depth: 4-8 fathoms; 22.vi.1882; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3593.**
- Foslie; [Norway]; Finmarken, Honningsvaag [now Finnmark, Honningsvåg]; 'klph. [= in rock pools]'; 22.vi.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. polymorphum* og [= and] *comp.*?'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C23-3594.**
- Foslie; [Norway]; Finmarken, Ingø [now Finnmark, Ingøy]; [no habitat data]; 1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Phym. polymorphum?*' and 'S. med ekspl. som ant. tilh. *L. glaciale* (bortk.) [= mixed with specimens that may belong to *L. glaciale* (thrown away)]']; **TRH C23-3595.**
- Foslie; [Norway]; Finmarken, Loppen [now Finnmark, Loppa]; 'klp. nederste vm. [= rock at lowest water mark]'; 15.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'koncept. [= conceptacles]'. Grouped with C23-3599 and C23-3600 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3598.**
- Foslie; [Norway]; Finmarken, Loppen [now Finnmark, Loppa]; 'klp. underste vm. [= rock at lowest water mark]'; 15.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C23-3598 and C23-3599 under one entry in Adey & Lebednik 1967: 89, who omitted mention of the 15.vi.1891 collection date for this box]; **TRH C23-3600.**
- Foslie; [Norway]; Finmarken, Loppen [now Finnmark, Loppa], ydre del [= outer part of] Medvæer [now Mevæer]; [no habitat data]; 15.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'lokal men i tem. mgd. [= local but rather in abundance]' and '*Ph. polymorphum?*'. Grouped with C23-3698 and C23-3600 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3599.**
- Foslie; [Norway]; Finmarken [now Finnmark], Marholmen ved [= near] Loppen [now Loppa]; collection depth: 10-15 fathoms, 'klpbund [= rock bottom]'; 10.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym.* og [= and] *laeve – flav.*' and 'Lokale nydann. konc. [= local newly formed conceptacles]']; **TRH C23-3601.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; 'klph. nedre del fj., vestsiden [= rock pools lower part of the tidal zone, westside]'; 13.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C23-3643 (listed below) under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3602.**
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; 'klph. & klp. under *Fucus* [= rock pools & rock under *Fucus*]'; 14.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C23-3603.**
- Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: ca 4 fathoms; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '2 største ekspl. sammenv. med *L. glac.* (som udt.) [= two largest specimens coalesced with *L. glac.* (which is taken out)]'. Relevant collection of *Lithothamnion glaciale* is B10-2280. Annotation slip in box marked 'Enp. konc. [= uniporate (enporede) conceptacles]' and 'Ligner [= looks like] *investiens*'. Grouped with C23-3605 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3604.**
- [Foslie]; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; 'klph. nedre – nederste vm. [= rock pools lower – lowest water mark]'; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C23-3604 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3605.**
- Foslie; [Norway]; Fæø [now Feøy] udenfor [= outside] Haugesund; 'ved og nedef. nederste vm., springfl. ebbe [= at and below lowest water mark, spring ebb tide]'; 20.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: 'Flert. steril [= majority sterile]']; **TRH C23-3607.**
- Foslie; [Norway]; Haugesund; 'litoralr. – nederste springfl. ebbe [= littoral region - lowest spring ebb tide]'; 23.vii.1902; slide 1652; [no other collection data]; [no pfa]; [Note: box

- marked 'Delvis konc. [= in part with conceptacles]'. Grouped with C23-3647 (listed below) under one entry in Adey & Lebednik 1967: 88; **TRH C23-3608.**
- Foslie; [Norway]; Hvitingsø [now Hvitingsøy]; collection depth: 1-2 fathoms, 'stene [= on stones]'; 1884; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3609.**
- Foslie; [Norway]; Kvænangen, Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; one unnumbered slide; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym. (?)*'. Slide marked with locality and date. Adey & Lebednik 1967: 89 omit mention of slide]; **TRH C23-3610.**
- [Foslie]; [Norway]; Lofoten, Balstad, Leiskjæret [now Ballstad, Leiskjeret]; collection depth: 3-5 fathoms; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C23-3612 and C23-3613 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3611.**
- Foslie; [Norway]; Lofoten, Balstad [now Ballstad], Kjeøsundet [strait near Kjeøya]; collection depth: 1-2 fathoms; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym. og [= and] L. glac.?*'. Relevant collection of *Lithothamnion glaciale* is B11-2313. Box also faintly marked 'Udt. sp. konc. lok. nydann. fotogr. [= taken out sporangial conceptacles, locally newly formed, photographed]'. Grouped with C23-3611 and C23-3613 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3612.**
- [Foslie]; [Norway]; [Lofoten], Balstad [now Ballstad], Kjeøsundet [strait near Kjeøya]; [no habitat data]; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym. f. interm.*' and 'Konc. med lok. nydann. [= with local newly formed conceptacles]'. Foslie's initials do not appear on box cover. Grouped with C23-3611 and C23-3612 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3613.**
- Foslie; [Norway]; Trondheimsfjorden, Storholmen indenfor [= within] Fløan; 'nedre del fj. [= lower part of the tidal zone]'; 14.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Konc.? [= conceptacles?]' and 'Paa ekspl. m. x. [= on specimen marked x]']; **TRH C23-3606.**
- Foslie; [Norway]; Valdresund [now Vallersund]; 'litoral [= littoral [region]]'; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: collection data virtually identical to C23-3615, except for habitat and collector information]; **TRH C23-3614.**
- Foslie; [Norway]; Vardø; 'paa *L. hyperb.* [= on *Laminaria hyperborea*]'; 10.viii.1887; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym.?*'. Annotation slip in box marked 'Ingen sikre konc. [= without certain conceptacles]']; **TRH C23-3616.**
- Gran; [Norway]; Bodø; [no habitat data]; viii.1898; slide 247; [no other collection data]; [no pfa]; [Note: box marked 'Et ekspl. s. med [= one specimen mixed with] *L. glac.?*'. Annotation slip in box marked 'Cyst. & sp. konc. [= cystocarpic & sporangial conceptacles]']; **TRH C23-3617.**
- Norum; [Norway]; Haugesund; 'str. ovenf. & nedenf. nederste vm., lidt beskyttet [= just above & below lowest water mark, some protected]'; 25.ii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 88 mistakenly list collector as 'Norman']; **TRH C23-3618.**
- Norum; [Norway]; Haugesund, Kvalen; [no habitat data]; 24.iv.1897; slide 1651; [no other collection data]; [no pfa]; [Note: box marked 'Største delvis over [= largest in part over] *L. collicul.*'. Grouped with C23-3620 under one entry in Adey & Lebednik 1967: 88, who mistakenly list the collector as 'Norman']; **TRH C23-3619.**
- [Norum]; [Norway]; Haugesund; [no habitat data]; 24.iv.1897; [no slides]; [no other collection data]; [no pfa]; [Note: grouped with C23-3619 under one entry in Adey & Lebednik 1967: 88, who mistakenly list the collector as 'Norman']; **TRH C23-3620.**
- Norum; [Norway]; Trondheimsfjorden, Værran [now Verran], Thunskjærene [by Tunsøra]; 'lit. reg. [= littoral region]'; 9.vii.1903; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 89 mistakenly list collector as 'Norman']; **TRH C23-3621.**
- Oxaal; [Norway]; Nymark, Tysnesøen [now Tysnesøya], syd for gaarden Tveit [= south of the Tveit farm]; collection level: '12-15 m o.h. [= metres above sea level], grustag ved veien [= gravel pit by the road]'; [no date]; [no slides]; [ex] Univ. Min. Inst. [= University Minera-

- logical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo], 'J. Oxaal ded. vii.1907 [= given by J. Oxaal vii.1907]'; [no pfa]; [Note: box marked '*Phym. polymorphum* (?)' and '2 forskj., delte ekspl. [= two different, divided specimens]']; **TRH C23-3622.**
- Øyen; [Norway]; Finnmarken [now Finnmark], Gjesvær, Sandholmen; [no habitat data]; 1899; [no slides]; [ex] Univ. Min. Inst. [= University Mineralogical Institute, now the Department of Geology at the Natural History Museums and Botanical Garden, University Oslo]; [no pfa]; [Note: box marked '*Phym. polymorphum* (?)' and 'Tag. snit [= cut taken]'. Adey & Lebednik 1967: 89 list collector as Quen]; **TRH C23-3623.**
- Øyen; [Norway]; Sandø, Løkeberg [now Sandøy, Løkkeberg]; 'østerslaget [= oyster layer]'; 1907; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 89 list collector as Quen]; **TRH C23-3624.**
- Øyen; [Norway]; Hvaler, Snekkota; [no habitat data]; 1907; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(s. m. [= mixed with] *L. sonderi*)' and 'sp. konc. [= sporangial conceptacles]' and 'Høide o h.? [= height above sea level?]'. Adey & Lebednik 1967: 89 list collector as Quen]; **TRH C23-3625.**
- Rosenvinge; Denmark; sydl. [= Southern] Kattegat, Store Middelgrund; collection depth: 6-7 fathoms; 10.v.1893; [no slides]; Rosenvinge collection number 3369¹; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]' and '1 stk. fotogr. [= one piece photographed]']; **TRH C23-3626.**
- Wille; [Norway]; Mandal; [no habitat data]; viii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Udt. fotogr. konc. [= conceptacles taken out for photography]' and 'Sp. & cyst.? konc [= sporangial & cystocarpic? conceptacles]'. Grouped with C23-3628 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3627.**
- [Wille]; [Norway]; Mandal; [no habitat data]; viii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. anth.? [= cystocarpic antheridial?]'. Grouped with C23-3627 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3628.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C23-3630 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3629.**
- [Anon.]; [Norway]; Florø; 'ved og nedef. ebbegr., flere st. i mgd. [= at and below ebb boundary, several places in abundance]'; 10.viii.1899; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3631.**
- [Anon.]; [Norway]; Haugesund, Salhus; collection depth: ca 8-10 fathoms, 'sterk strøm [= strong current]'; 19.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Cl. compactum?* ell. [= or] *polym.?* s. med [= mixed with] *Ph. polym.*, *L. leave*'. Relevant collection of *Lithothamnion leave* is B4-1861]; **TRH C23-3632.**
- [Anon.]; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3633.**
- [Anon.]; [Norway]; Kvænangen, Skorpen [now Skorpa]; [no habitat data]; 5.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C23-3634.**
- [Anon.]; [Norway]; Langesund, Rongsfjord [now Rognsfjorden]; collection depth: ca 10 fathoms; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3635.**
- [Anon.]; [Norway]; Røvær; [no habitat data]; 2.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Anth. konc. [= antheridial conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C23-3636.**
- [Anon.]; [Norway]; Skudesnes; 'nederst lit. reg., springfl. [= lowest littoral region, spring tide]'; 24.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]']; **TRH C23-3637.**
- [Anon.]; [Norway]; Trondheimsfjorden, Aasenfjord [now Åsenfjorden]; 'paa [= on] *L. collicul*'; 1901; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3638.**

[Anon.]; [Norway]; Trondheimsfjorden, Vanvik [now Vanvikan], i østre bugt bortf. sagen [= in eastern bay beyond the saw]; 'str. nedenf. ebbegr. [= just below ebb boundary]'; 1.viii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '(Delvis konc. [= in part conceptacles)']'. Grouped with C23-3640 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3639**.

[Anon.]; [Norway]; Trondheimsfjorden, Vanvik [now Vanvikan]; 'klph. nedre vm., nedenfor nøstene [= rock pools at lower water mark, below the boat-houses]'; 1.viii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 's. m. comp. og tem. lig denne i farve i frisk tilst [= mixed with comp. and fairly similar to this in colour when in fresh condition]' and 'Delvis koncept. [= in part conceptacles]'. Grouped with C23-3639 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3640**.

[Anon.]; [Norway]; Ulvøundet [now Ulvøysund], Røvær; collection depth: 5-8 fathoms; 21.vii.1902; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C23-3641**.

[Anon.]; [Norway]; Valdresund [now Vällersund]; [no habitat data]; 15.vii.1908; [no slides]; [no other collection data]; [no pfa]; [Note: collection apparently not included in Adey & Lebednik 1967, but collection data nearly identical to C23-3614, except for lack of habitat and collector information]; **TRH C23-3615**.

polymorphum, *Phymatolithon* (f. *intermedia*) [originally described as *Phymatolithon polymorphum* f. *intermedia* (Foslie 1908d: 10), but not mentioned in Foslie's subsequent publications. Collections listed in Adey & Lebednik 1967: 89 under *Phymatolithon polymorphum* without mention of forma]. **Lectotype: TRH, C23-3642** (see below).

Foslie; [Norway]; Lofoten, Balstad [now Ballstad]; [no habitat data]; 21.ix.1881; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 39, fig. 10; [Note: **Lectotype** of *Phymatolithon polymorphum* f. *intermedia* Foslie. Additional data — Woelkerling 1993: 128. Annotation slip in box marked 'Ingen cyst. konc. [= without cystocarpic conceptacles]'. Grouped with the lectotype of *Lithothamnion varians* (C23-3649) under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3642**.

Foslie; [Norway]; Finnmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; 'klp. [= rock]'; 14.viii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 39, fig. 9; [Note: annotation slip in box marked '*L. polym. a.* Klp. (bratte vægge) ved & nedenf. nederste k. nær den ved Fløan, tagne *interm.* lign. form. Haardt fæstet underl. [= *L. polym. a.* Rock (steep rock walls) at & below lowest rock close to the one near Fløan, collected *interm.* resembled in form. Fastened hard to the layer]' and '*L. polym. b.* Klph. nedre, m. tynd. Løsner let [= *L. polym. b.* Rock pools lower, very thin. Easily loosened]'. Grouped with C23-3602 (listed above) under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3643**.

Foslie; [Norway]; Skarsvaag [now Skarsvåg] ved [= near] Nordkap [now Nordkapp]; collection depth: ca 5 fathoms, 'haard. bergb. [= hard rock bottom]'; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Udt. cyst. konc. fotogr. [= cystocarpic conceptacles taken out for photography]' and 's. med. [= mixed with] *L. glac.*' and 'Tem. store fremst. konc. [= rather large protruding conceptacles]' and 'Dubl. i gangsk. [= duplicates in corridor cabinet]'. Grouped with C23-3645 and C23-3646 under one entry in Adey & Lebednik 1967: 89. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6)]; **TRH C23-3644**.

Foslie; [Norway]; Skarsvaag [now Skarsvåg]; collection depth: ca 5 fathoms; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Store cyst. konc. [= large cystocarpic conceptacles]'. Grouped with C23-3644 and C23-3646 under one entry in Adey & Lebednik 1967: 89. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6)]; **TRH C23-3645**.

polymorphum, *Phymatolithon* (f. *papillata*) [originally described as *Lithothamnion polymorphum* f. *papillata* (Foslie 1895a: 115) but subsequently (Foslie 1905c: 76) species

and forma transferred into *Phymatolithon* with a needless change in final epithet from *papillata* to *sublaevis* (i.e. *Phymatolithon polymorphum* f. *sublaevis*). Additional data — Woelkerling 1993: 168, 211. Collection listed in Adey & Lebednik 1967: 88 under *Phymatolithon polymorphum* without mention of forma. Additional collections occur in Drawer C24]. **Lectotype:** TRH, C24-3726 (in Drawer C24).

Foslie; [Norway]; Røvær, holmen ret imod fyret [= the islet right against the lighthouse]; 'springfl. ebbe [= spring ebb tide]'; 21.vii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 39, figs 1, 11; [Note: collection contains a mixture of individuals belonging either to *Phymatolithon polymorphum* f. *polymorphum* (including fig. 1) or to f. *papillata* (fig. 11). Names on box are 'f. *valida* (= f. *polymorphum*)' and 'f. *sublaevis* (= f. *papillata*)'. Box marked 'Væsentr. steril [= mainly sterile]'. Grouped with C23-3644 and C23-3645 under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3646.**

polymorphum, Phymatolithon (f. sublaevis)

See entries under *Phymatolithon polymorphum* f. *papillata* (above and in Drawer C24). The epithet *sublaevis* is a superfluous substitute and thus illegitimate epithet for *papillata*. Additional data — Woelkerling 1993: 168, 211.

polymorphum, Phymatolithon (f. tuberculata) [originally described as *Lithothamnion polymorphum* f. *tuberculata* (Foslie 1895a: 114) but subsequently (Foslie 1905c: 76) species and forma transferred into *Phymatolithon* as *P. polymorphum* f. *tuberculata*. Additional data on name — Woelkerling 1993: 227. Collection listed in Adey & Lebednik 1967: 88 under *Phymatolithon polymorphum* without mention of forma. Additional collections are in Drawer C24]. **Type:** not designated (Woelkerling 1993: 227), and collections pre-dating the protologue not found in **TRH** during present study.

Foslie; [Norway]; Haugesund; [no habitat data]; 23.vii.1902; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 39, fig. 5; [Note: grouped with C23-3608 (listed above) under one entry in Adey & Lebednik 1967: 88]; **TRH C23-3647.**

polymorphum, Phymatolithon (f. valida) [originally described as *Lithothamnion polymorphum* f. *valida* (Foslie 1895a: 114) but subsequently (Foslie 1900i: 9) species and forma transferred into *Phymatolithon* as *P. polymorphum* f. *validum*, where Foslie retained it in publication. Collection listed in Adey & Lebednik 1967: 89 under *Phymatolithon polymorphum* without mention of forma]. **Holotype:** TRH, C23-3648 (see below).

Foslie; [Norway]; Tromsø, Lyngø [now Lyngøya]; [no habitat data]; 12.vi.1892; slide 210; [no other collection data]; pfa: Foslie 1895a, pl. 17, fig. 20, and Printz 1929, pl. 39, fig. 2; [Note: **Holotype** of *Lithothamnion polymorphum* f. *valida* Foslie. Additional data — Woelkerling 1993: 232. Foslie 1895a pfa data marked on slide. Adey & Lebednik 1967: 89 incorrectly place this locality in Finnmark]; **TRH C23-3648.**

varians, Lithothamnion [originally described as *Lithothamnion varians* (Foslie 1895a: 109) but eventually (Foslie 1905c: 27) treated as a heterotypic synonym of *Phymatolithon polymorphum*. See Woelkerling (1993: 234-235) for further information on the nomenclatural history of *Lithothamnion varians*. *Lithothamnion varians* f. *verrucosa* is a superfluous substitute and thus illegitimate name for *Lithothamnion varians* f. *varians* (Woelkerling 1993: 234-235). Collections listed in Adey & Lebednik 1967: 89 under *Phymatolithon polymorphum* without mention of *varians*. A further collection is filed in Drawer B11 under another superfluous name, *Lithothamnion glaciale* f. *verrucosa*]. **Lectotype:** TRH, C23-3649 (see below).

Foslie; [Norway]; Lofoten, Balstad [now Ballstad]; [no habitat data]; 21.ix.1881 [but see Note]; slide 134; [no other collection data]; pfa: Foslie 1895a, pl. 18, figs 3-4; [Note: **Lectotype** of *Lithothamnion varians* (f. *variens*) Foslie. Additional data — Woelkerling 1993: 234 and Woelkerling 1998c: 367. Large original round box marked '*L. varians* f. *verrucosa* = *Phym. polymorphum* f. *intermedia*'. Collection includes three fragments in a small original round box marked '*L. varians*' and 'Præp. [= slide] Andersss.134' and 'Balstad'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Date on large box given as 21.ix.1881 but on small box given as '21.viii.1881'. Grouped with the lectotype of *Phymatolithon polymorphum* f. *intermedia* (C23-3642) under one entry in Adey & Lebednik 1967: 89]; **TRH C23-3649**.

Foslie; [Norway]; Lofoten, Borgevær [now Borgvær]; [no habitat data]; 1.viii.1881; slide 133 and one unnumbered slide; [no other collection data]; pfa: Foslie 1895a, pl. 18, figs 1-2; [Note: box and slide 133 marked '*Lith. varians* f. *verrucosa*'. Unnumbered slide marked '*L. varians* f. *genuina*' and 'Borgevær, 1.viii.1881'. Annotation slip in box with collection data also marked 'det. Kjellm.'. Adey & Lebednik 1967: 89 omit mention of slides]; **TRH C23-3650**.

variens, Lithothamnion (f. irregularis) [originally described as *Lithothamnion varians* f. *irregularis* (Foslie 1895a: 109). Species subsequently (Foslie 1905c: 27) treated as a heterotypic synonym of *Phymatolithon polymorphum* but without mention of the f. *irregularis*. Label on lectotype box (filed by Foslie in Drawer C 26 with collections of *Phymatolithon investiens*) marked '~~*L. varians* f. *irregularis investiens*~~', but in publication Foslie never listed *Lithothamnion varians* f. *irregularis* as a heterotypic synonym of *Phymatolithon investiens*. Collection listed in Adey & Lebednik 1967: 89 under *Phymatolithon polymorphum*]. **Lectotype: TRH, C26-3788** (in Drawer C26).

Foslie; [Norway]; Finmarken [now Finnmark], Gjesvær; under *Alaria*; 13.vi.1882; slide 136; [no other collection data]; pfa: Foslie 1895a, pl. 18, fig. 7 '(ene ekspl. [= one of the specimens])'; [Note: box marked '*Lith. varians* f. *irregularis* = *Phym. polym.*'. Adey & Lebednik 1967: 89 omit mention of pfa]; **TRH C23-3651**.

Case C, Drawer 24

polymorphum, Phymatolithon [originally published as *Millepora polymorpha* (Linnaeus 1767: 1285), but as a superfluous substitute and thus illegitimate name for *Millepora calcarea* (Pallas 1766: 265) (full details provided by Woelkerling & Irvine 1986a: 66). Subsequent superfluous and thus illegitimate combinations involving the epithet *polymorphum* include transfers into the genera *Apora* (Gunnerus 1768: 71), *Nullipora* (Nardo 1834: 675), *Pocillopora* (Ehrenberg 1834: 353), *Spongites* (Kützing 1849: 699), *Melobesia* (Harvey 1849a: 110), *Lithothamnion* (Areschoug 1852: 524), *Phymatolithon* (Foslie 1898a: 4) and *Eleutherospora* (Heydrich 1900c: 65). After 1898 Foslie retained the name *Phymatolithon polymorphum* but Woelkerling & Irvine (1986a: 68-71) have shown that Foslie and others have misapplied the epithet *polymorphum* to plants that correctly belong to *Phymatolithon purpureum* (P.L. & H.M. Crouan) Woelkerling & L. Irvine (Basionym: *Lithothamnion purpureum* P.L. & H.M. Crouan 1867: 150). Additional collections labelled *Phymatolithon polymorphum* are in Drawer C 23].

Arwidsson; [Sweden]; Bohuslen, Gullmarsfjorden, østre side af [= eastern side of] Sjalholmen; collection depth: ca 0.6-0.9 metres, 'delvis omg. gr. corall. off. [= partly surrounded with groups of *Corallina officinalis*]'; 8.viii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Høie enp. konc.? næststørste ekspl. [= tall uni-

- porate (enporede) conceptacles? second largest specimen]. Adey & Lebednik 1967: 89 mistakenly list the collector as 'Arvidsson']; **TRH C24-3652.**
- Arwidsson; [Sweden]; Gullmarsfjorden, udsiden af [= outside of] Blåbergsholmen; collection depth: 1-1.5 metres; 25.vi.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'klippa – bland [= cliff – among] *Laminaria* etc.']; **TRH C24-3653.**
- Arwidsson; Sweden; Gullmarsfjordens munning [= month], Gåsöräna, vesterom [= west of] Ösö; collection depth: 15-20 metres; 8.vi.1903; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'sten – gamla skal [= stone – old shell] *Laminaria* etc.']. Adey & Lebednik 1967: 89 mistakenly list the collector as 'Arvidsson']; **TRH C24-3654.**
- Batters; [United Kingdom]; [England], Berwick-upon-Tweed; [no habitat data]; ii.1889; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3655.**
- Batters; [United Kingdom]; England, Plymouth; [no habitat data]; ii.1891; slide 243; ex herb. Batters [now in **BM**]; [no pfa]; [Note: box marked '*Ph. polym.* (?)' and 'ex coll. Batters'. Annotation slip in box also marked 'ex coll. Batters' while slide marked 'ex herb. Batters']; **TRH C24-3656.**
- Batters; [United Kingdom]; England, Swanage; [no habitat data]; viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. polymorphum* (vel [= also] *in-crust.*?)'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Collection not included in Adey & Lebednik 1967]; **TRH C24-3657.**
- Børgesen; Færøerne [= Faeroe Islands]; Frodebø, Suderø; 'paa lodret klippe i fjæren [= on vertical rock in the tidal zone]'; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH C24-3658.**
- Børgesen; Færøerne [= Faeroe Islands]; Østerø, Gjøv; 'i fjæren [= in the tidal zone]'; 4.vii.1899; [no slides]; collection number 1540; pfa: Printz 1929, pl. 39, fig. 7; [Note: box marked 'Konc. [= conceptacles]']; **TRH C24-3659.**
- Børgesen; Færøerne [= Faeroe Islands]; Gjøv ved [= near] Kvivig; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3660.**
- Børgesen; Færøerne [= Faeroe Islands]; hule ved [= cave near] Kvivig; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH C24-3661.**
- Børgesen; Færøerne [= Faeroe Islands]; Østerø, Mølen ved [= near] Ejde; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]' and 'Mindste ekspl. nedtrykt? [= smallest specimen de-pressed?']'. Grouped with C24-3663 under one entry in Adey & Lebednik 1967: 90]; **TRH C24-3662.**
- Børgesen; Færøerne [= Faeroe Islands]; Østerø, Mølen ved [= near] Ejde; [no habitat data]; 1896; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. Grouped with C24-3662 under one entry in Adey & Lebednik 1967: 90]; **TRH C24-3663.**
- Børgesen; Færøerne [= Faeroe Islands]; Thorshavn; [no habitat data]; 2.v.1898; [no slides]; Børgesen collection number 1007; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C24-3664.**
- Bornet; [France]; [Loire Inférieure], Le Croisic; [no habitat data]; 14.v.1877; [no slides]; ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: box marked 'mindste brudst. cyst ell. sp. konc. [= smallest fragment cystocarpic or sporangial conceptacles]'. Annotation slip in box marked 'Enp. konc. (smaa) [= uniporate (enporede) conceptacles (small)]'. Grouped with C24-3666 and C24-3667 under one entry in Adey & Lebednik 1967: 91, who omit mention of collector]; **TRH C24-3665.**
- Bornet; [France]; [Loire Inférieure], Le Croisic; [no habitat data]; 10.iv.1877; [no slides]; ex herb. Thuret – Bornet [**PC**]; [no pfa]; [Note: box marked '*L. comp. - polym.*']. Annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C24-3665 and C24-3667 under one entry in Adey & Lebednik 1967: 91, who omit mention of collector]; **TRH C24-3666.**

- [Bornet; Frankrige [= France]; Loire Inférieure, Le Croisic; [no habitat data]; 13.v.1877; two slides labelled Bornet number 5; ex herb. Thuret - Bornet [PC], collection number 5; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Annotation slip printed with 'Herb. G. Thuret' and 'Donné par M' Ed. Bornet' also marked by hand with locality data and with 'Konc. [= conceptacles]'. Grouped with C24-3665 and C24-3666 under one entry in Adey & Lebednik 1967: 91. Collector presumed to be Bornet]; **TRH C24-3667.**
- [Anon.]; [United Kingdom]; south coast of England; rock pools; [no date]; [no slides]; [comm.] A.D. Cotton, xi.1905, number 7, ex herb. Kew Gardens [K]; [no pfa]; [Note: box marked '(steril - sands. d. art [= sterile - probably this species)]'. Adey & Lebednik 1967: 90 list 'Cotton' as the collector and 'xi.1905 as' the collection date. A letter from Cotton to Foslie dated '7.xi.1905', however, lists 12 collections (numbered 1-12) that Cotton sent, all without mention of collector or collection date. Algal collections originally at K are now housed at BM]; **TRH C24-3668.**
- Debray; France; Finistère, Glenans; [no habitat data]; [no date]; [no slides]; Debray collection number 64; [no pfa]; [Note: box marked '*Lith. sanderi*(?)' and '*Ph. polymorphum*?' and 'Steril [= sterile]'. Presumably grouped with C24-3670 under one entry in Adey & Lebednik 1967: 91]; **TRH C24-3669.**
- Debray; France; Seine Inférieure, Fecamp; [no habitat data]; [no date]; slide 43; Debray collection number 75; [no pfa]; [Note: box marked '*Phym. polym.*?']. Annotation slip in box marked 'Enp. konc. høie og lave [= uniporate (enporede) conceptacles tall and low]'. Slide marked '*Phymatol. polymorph.*?' and 'Fecamp, Seine infer.' and 'Debray no. 75'. Presumably grouped with C24-3669 under one entry in Adey & Lebednik 1967: 91]; **TRH C24-3670.**
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], indenfor [= within] Rakeboerne [now Rakkebaane]; 'opk. fjæren [= washed ashore the tidal zone]'; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: Adey & Lebednik 1967: 90 mistakenly give the locality as 'Frederikshavn, Denmark']; **TRH C24-3671.**
- Foslie; [Norway]; Hvaløerne, Galtene [now Hvaler, Galtane]; collection depth: 3-5 fathoms; 12.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Enp. konc. paa ekspl. papir [= uniporate (enporede) conceptacles on specimen in paper]'. One specimen is wrapped in a piece of paper]; **TRH C24-3672.**
- Foslie; [Norway]; Mandal, Risøbank [now Banken]; collection depth: 3-4 fathoms; 18.vii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Lave enp. konc. paa næst. ekspl. [= low uniporate (enporede) conceptacles on second largest specimen]']; **TRH C24-3673.**
- Foslie; Irland [= Republic of Ireland]; Roundstone, The Beaches, Dog's - Gorteen Bay; 'klph. udsatte steder [= rock pools exposed places]'; 19.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]']; **TRH C24-3674.**
- Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym* (?)' and 'vandslidt [= worn from water]'. Annotation slip in box marked 'Store sp. konc.? [= large sporangial conceptacles?]']; **TRH C24-3675.**
- Holmes; [United Kingdom]; [England], Yorkshire, Robin Hood's Bay; [no habitat data]; viii.1901; [no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip in box marked 'Konc. [= conceptacles]'. Second slip marked 'Anth. konc. [= antheridial conceptacles]']; **TRH C24-3676.**
- Holmes; [United Kingdom]; England, Swanage; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'mus. 1901'. Annotation slip in box marked 'Konc. enp.? [= conceptacles uniporate (enporede)?]' and 'Største ekspl. [= largest specimen]'. Grouped with C24-3724 under one entry in Adey & Lebednik 1967: 90. Adey & Lebednik 1967: 90 record three boxes but only two were found during present study]; **TRH C24-3677.**
- [Holmes]; [United Kingdom]; England, Swanage; [no habitat data]; ix.1896; [no slides]; ex herb. Holmes [BM, not BIRM as indicated by Stafleu & Cowan 1979: 260], 1899; [no pfa];

- [Note: annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C24-3677 under one entry in Adey & Lebednik 1967: 90. Adey & Lebednik 1967: 90 record three boxes but only two were found during present study]; **TRH C24-3724.**
- Holmes; [United Kingdom]; England, Weymouth; [no habitat data]; 18.ii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Forkr. form med delvis lok. nydann. over konc. [= dwarfed form partly newly covered over conceptacles]'. Annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C24-3678.**
- Johnson, T. & Foslie; Irland [= Republic of Ireland]; County Dublin, Dalkey Sound; collection depth: 3-4 fathoms; 13.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Konc. [= conceptacles]'. Grouped under one entry in Adey & Lebednik 1967: 90 with a collection of *Lithophyllum incrustans* (A7-3680) that had been misplaced in C24]; **TRH C24-3679.**
- Kuckuck; [Croatia]; Adriaterhavet [= Adriatic Sea], [Brioni Islands], Bagnole, zwischen [= between] Klein Asino und [= and] St. Andrea; collection depth: 23-30 metres; 4.xi.1899; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Phym. polymorphum* (og [= and] *L. philippii*)' and '(b. brudst. af return. ekspl. [= b. fragment of returned specimen)]'. Locality on box is numbered '3a'. Annotation slip in box marked 'Konc. [= conceptacles]'. Adey & Lebednik 1967: 89 mistakenly list the collector as 'Wille' and mistakenly list '3a' as '32'. Foslie's herbarium contains a number of 4.xi.1899 Kuckuck collections from the Adriatic Sea but no Wille collections dated prior to 1903]; **TRH C24-3681.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; 21.x.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. ~~anth.~~ konc. tild. med lok. nydann. over [= sporangial antheridial conceptacles in part with newly covered over]'. Annotation slip in box marked 'Ingen sporer [= without spores]']; **TRH C24-3682.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; 1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym.*' and 'Cyst. konc. [= cystocarpic conceptacles]']; **TRH C24-3840.**
- Kuckuck; Marokko [= Morocco]; Tangier, '1) Nördlich der stadt [= north of the city]' and '3a) Nördlich Monte de Direction [= north of Mount Direction]'; collection depth: 1) 17-33 metres, 3a) 15-20 metres; 14.vi.1901; slide 787; [no other collection data]; [no pfa]; [Note: collection appears to consist of material from two localities [see Foslie 1904d: 35, where the material is referred to f. *papillata*] that cannot be separated. Annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C24-3683.**
- Kylin; [Sweden]; Bohuslen, Varberg and Kristineberg; [no habitat data]; [dates: see Note]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '8. Varberg 27/6 1905' and '9. Varberg 30/6 05' and '15. Kristineberg Aug. 05'. Contains material from three dates and two localities that cannot be separated into distinct collections. Entry in Adey & Lebednik 1967: 90 reads 'Kylin Sweden, Gullmarfjord, Bohuslen 6.1905']; **TRH C24-3684.**
- Kylin; [Sweden]; Bohuslen, Kristineberg; [no habitat data]; iv.1906; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3685.**
- Kylin; Sweden; Bohuslen, Koster; [no habitat data]; 14.vii.1905; [no slides]; collection number 14; [no pfa]; [Note: box marked '*Ph. polym* (?) (ell. [= or] *Lithoph. crouani*??' and 'Steril [= sterile]' but annotation slip in box marked 'Anth. konc.? [= antheridial conceptacles?]']; **TRH C24-3686.**
- Lagerheim; Sverige [= Sweden]; Väderö, Storö; collection depth: ca 2 fathoms; viii.1882; [no slides]; ex herb. Kjellman [UPS]; [no pfa]; [Note: box marked '*Ph. polymorph.*?']; **TRH C24-3688.**
- Lundberg; Sverige [= Sweden]; Skåne, utanför Mölle fiskeläge vid Kullen [= outside the fishing village of Mölle near Kullen]; [no habitat data]; viii.1882; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. [= cystocarpic]']; **TRH C24-3689.**
- Paulsen; Island [= Iceland]; north Iceland, Husavik; collection depth: 10 metres; 31.v.1904; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Phym. polymorphum*?' and '(Ligner hab. [= looks in habit] *Ph. laevig.*)' and 'Konc. [= conceptacles] 180-240µ'

- and '15-30 porer [= pores]' and 'Ikke sp. [= no sporangia]'. Collection not included in Adey & Lebednik 1967]; **TRH C24-3690.**
- Phillips; [United Kingdom]; North Wales, Bangor; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym. delvis* over [= partly over] *L. incrust.*' and 'Et ekspl. blandt [= one specimen among] *incrust.*'. Annotation slip in box marked 'Ingen konc. [= without conceptacles]']; **TRH C24-3691.**
- Rosenvinge; Denmark; sydl. [= Southern] Kattegat, Briseis Grund; collection depth: 4-7 fathoms; 9.v.1893; [no slides]; Rosenvinge collection number 3335; [no pfa]; [no notes]; **TRH C24-3692.**
- Rosenvinge; [Denmark]; Skagerak, Hirtshals; 'paa [= on] *Laminaria rødder* [= roots]'; 20.v.1902; [no slides]; [ex] Bot. Mus. Kbhavn [C], Rosenvinge collection number 7146; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C24-3693.**
- Sauvageau; [France]; Dep^{nt} Finistère, Concarneau; [no habitat data]; iii.1900; [no slides]; comm. Bornet; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]'. Presumably grouped with C24-3695 under one entry in Adey & Lebednik 1967: 91, who, however, omit mention of two boxes]; **TRH C24-3694.**
- Sauvageau; [France]; Dep^{nt} Finistère, Concarneau; [no habitat data]; iii.1900; [no slides]; comm. Bornet; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Presumably grouped with C24-3694 under one entry in Adey & Lebednik 1967: 91, who, however, omit mention of two boxes]; **TRH C24-3695.**
- Sauvageau; [France]; Dept. de la Charente Inférieure, Ile de Ré; [no habitat data]; iii.1900; [no slides]; comm. Bornet; [no pfa]; [Note: box marked 'Cyst. [= cystocarpic]'. Annotation slip from Sauvageau marked with collection date. Grouped in Adey & Lebednik 1967: 91 under one entry with C24-3697 and with collections belonging to f. *papillata* (C24-3728) and f. *tuberculata* (C24-3730)]; **TRH C24-3696.**
- Sauvageau; [France]; Dept. de la Charente Inférieure, Ile de Ré; [no habitat data]; iii.1900; [no slides]; comm. Sauvageau; [no pfa]; [Note: box marked '*Ph. polym. (& L. lenorm.)*'. Relevant collection of *Lithothamnion lenormandii* is B5-1933. Annotation slip from Sauvageau marked with collection date. Grouped in Adey & Lebednik 1967: 91 under one entry with C24-3696 and with collections belonging to f. *papillata* (C24-3728) and f. *tuberculata* (C24-3730)]; **TRH C24-3697.**
- Schreiner; [Norway]; Kristiania [now Oslo], Nesodden; [no habitat data]; 17.xii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Cyst. konc. [= cystocarpic conceptacles]'. In Foslie's time, Nesodden was placed in Kristiania County, but it now is placed in Akershus County]; **TRH C24-3698.**
- Stanford; [United Kingdom]; [Scotland], Hebrides [Islands]; [no habitat data]; [no date]; [no slides]; [ex] Brit. Mus. [BM], number 8 (1899); [no pfa]; [Note: box marked '*L. collic.* det. Holmes' and 'Steril [= sterile]'. Adey & Lebednik 1967: 90 mistakenly list the collection date as '1899']; **TRH C24-3699.**
- Vilke; [Norway]; Algerøen [now Algrøna] udenfor [= outside] Bergen; [no habitat data]; 2.vii.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3700.**
- Wille; [Croatia]; Adriaterhavet [= Adriatic Sea], Rovigno [now Rovinj]; [no habitat data]; iii 1903; slides 1504-1505; [no other collection data]; [no pfa]; [Note: box marked '*Polym. polymorphum* ved [= at] x'. One specimen in box wrapped in paper with a note marked 'Præp. [= slide] 1505'. Collection includes fragments in a small box marked 'Præp. [= slide] 1504'. Annotation slip in small box marked 'Tydelige porer [= clear pores]'. Adey & Lebednik 1967: 89 omit mention of slides]; **TRH C24-3702.**
- Wille; [Norway]; Mandal; [no habitat data]; viii.1889; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 18, fig. 11; [Note: annotation slip in box marked 'Tømte konc.? [= empty conceptacles?]']; **TRH C24-3703.**
- Wille; [Norway]; Mandal; [no habitat data]; viii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Lidt ophøiede enp. konc.? paa mindste ekspl. [= some raised uniporate (enporede) conceptacles? on smallest specimen]'. Collection

- apparently not included in Adey & Lebednik 1967 but likely to have formed part of the preceding collection]; **TRH C24-3704.**
- Wille; [Norway]; Sandøsund [now Sandøysund], nær [= near] Færder; [no habitat data]; 18.vi.1908; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3705.**
- Wille; [Norway]; Vallø; 'paa *L. dig.* rødde [= on root of *L. dig.*]; 28.viii.1881; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polym.* (?)'. Annotation slip in box marked 'Smaa ophøiede enp. konc. [= small raised uniporate (enporede) conceptacles]']; **TRH C24-3706.**
- [Anon.]; Denmark; Frederikshavn, Hirsholmene; [no habitat data]; 28.viii.1881; [no slides]; collection number 1937; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C24-3707.**
- [Anon.]; Denmark; ved kosten nord for [= near the coast north of] Græsholm (Hirsholmene) ved [= near] Frederikshavn; [no habitat data]; 24.vii.1895; [no slides]; collection number 6293b; [no pfa]; [Note: annotation slip in box marked 'Ingen konc. [= without conceptacles]'. The collection number probably was assigned by Rosenvinge, who also probably was the collector]; **TRH C24-3708.**
- [Anon.]; Denmark; Søborg Hoved Grund [= Søborghoved Grund], n. f. [= north of] Sjælland; collection depth: 4½ fathoms; 18.iv.1894; [no slides]; collection number 4509; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]'. The collection number probably was assigned by Rosenvinge (see entry for C25-3757), who probably was the collector]; **TRH C24-3709.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; iii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'Spor. & cyst. koncept.! [= sporocarpic & cystocarpic conceptacles!]' and clearly marked 'Udt. sp. konc. fotogr. [= sporangial conceptacles taken out for photography]'. Grouped with C24-3711 under one entry in Adey & Lebednik 1967: 90]; **TRH C24-3710.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; vi.1893; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C24-3710 under one entry in Adey & Lebednik 1967: 90]; **TRH C24-3711.**
- [Anon.]; Grønland [= Greenland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithoth. polymorph.* = *Ph. polym?*' and 'det. Kjellman'. Adey Lebednik 1967: 90 mistakenly list 'Kjellman' as the collector]; **TRH C24-3712.**
- [Anon.]; [Norway]; Hvaløerne, Skjærhalden, Storsanden [now Hvaler, Skjærhollen, Storesand]; 'opk. [= washed ashore]'; ca 16.vii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3713.**
- [Anon.]; [Norway]; Hvaløerne, Torbjørnskjær [now Hvaler, Torbjørnskjær]; 'nedre del fjæren [= lower part of the tidal zone]'; 29.vii.1903; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3714.**
- [Anon.]; [Norway]; Lyngør; collection depth: 0.5-1 fathoms; 15.vii.1907; [no slides]; [no other collection data]; [no pfa]; [Note: the box containing this collection was recycled by Foslie. It originally housed specimen 4962 (crossed out) from Jamaica (crossed out) sent from the New York Botanical Garden (not crossed out). Howe collection 4962 is now filed under *Lithophyllum caribaeum* (A1-19)]; **TRH C24-3715.**
- [Anon.]; [Norway]; Langesund, Rongsfjord [now Rognsfjorden]; collection depth: ca 10-15 fathoms, 'paa klph. og *Laminaria* rødder [= in rock pools on roots of *Laminaria*]; 11.vii.1907; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C24-3716.**
- [Anon.]; Irland [= Republic of Ireland]; Dakly Sound; [no habitat data]; ix.1896; [no slides]; [ex] Science & Art Mus. [Dublin] [DBN], number 31 'delvis [= in part]'; [no pfa]; [Note: box marked '*L. polymorphum?*'. Annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C24-3718 and C24-3719 under one entry in Adey & Lebednik 1967: 90, who mistakenly list 'Foslie' as the collector]; **TRH C24-3717.**
- [Anon.]; Irland [= Republic of Ireland]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Sc. & Art Mus. Dublin [DBN], number 43 'delvis [= in part]'; [no pfa]; [Note:

annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C24-3717 and C24-3719 under one entry in Adey & Lebednik 1967: 90, who mistakenly list 'Foslie' as the collector]; **TRH C24-3718**.

[Anon.]; [Ireland [= Republic of Ireland]]; [no other locality data]; [no habitat data]; [no date]; [no slides]; [ex] Sc. & Art Mus., number 63 **[DBN]**; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C24-3717 and C24-3718 under one entry in Adey & Lebednik 1967: 90, who mistakenly list 'Foslie' as the collector and who do not mention the number 63]; **TRH C24-3719**.

[Anon.]; [Sweden]; Bohuslen, Flatholmen; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. polym.*'. Grouped with C24-3721 and C24-3722 under one entry in Adey & Lebednik 1967: 90, who mistakenly list 'Kylin' as the collector]; **TRH C24-3720**.

[Anon.]; [Sweden]; Bohuslen; [no habitat data]; [no date]; slide 209; ex herb. Areschoug **[S]**; [no pfa]; [Note: collection includes fragments in a small unmarked box and fragments in a pink box with an annotation slip marked 'Ingen interm. cell. [= without intermediate cells]'. Grouped with C24-3720 and C24-3722 under one entry in Adey & Lebednik 1967: 90, who mistakenly list 'Kylin' as the collector]; **TRH C24-3721**.

[Anon.]; [Sweden]; Bohuslen, Flatholmen; [no habitat data]; [no date]; slide 1653; ex herb. Areschoug **[S]**; [no pfa]; [Note: annotation slip in box marked 'Utydelige konc.? [= unclear conceptacles?]' and 'Ser ingen porer [= cannot see any pores]'. Grouped with C24-3720 and C24-3721 under one entry in Adey & Lebednik 1967: 90, who mistakenly list 'Kylin' as the collector]; **TRH C24-3722**.

[Anon.]; United States; [Massachusetts], Magnolia; [no habitat data]; ix.1878; slide 480; ex herb. Farlow **[FH]**, 1900, number II; [no pfa]; [Note: main specimen in collection affixed to a piece of paper marked '*L. laeve?*' and '*Ph. polymorphum* f.?, cfr. [= cf.] Remarks on north. Lith. [= Foslie 1905c]' and 'II' and '*Melobesia* on *Laminaria digitata*' and 'Magnolia, Sept. 1878' and 'Farl. 1900' and 'Præp. [= slide] 480'. Slide marked '~~*Lithothamnion laeve?*~~'. Collection also includes two fragments in a small box marked '480']; **TRH C24-3725**.

polymorphum, Phymatolithon (f. papillata) [originally described as *Lithothamnion polymorphum* f. *papillata* (Foslie 1895a: 115) but subsequently (Foslie 1905c: 76) species and forma transferred into *Phymatolithon* with a needless change in final epithet from *papillata* to *sublaevis* (i.e. *Phymatolithon polymorphum* f. *sublaevis*). Additional data — Woelkerling 1993: 168, 211. Collections listed in Adey & Lebednik 1967: 90-91 under *Phymatolithon polymorphum* without mention of forma. Additional collections occur in Drawer C23]. **Lectotype: TRH, C24-3726** (see below).

Kuckuck; [Germany]; Helgoland; [no habitat data]; 23.i.1893; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 17, fig. 23; [Note: **Lectotype** of *Lithothamnion polymorphum* f. *papillata* Foslie. Additional data — Woelkerling 1993: 168. The three small boxes recorded in Adey & Lebednik 1967: 90 were placed in one larger box to form the lectotype (Woelkerling 1993: 168-169). All three boxes are marked with collection data. One box (with one fragment) contains an annotation slip marked 'Konc. [= conceptacles]'. Second box (with fragments) contains an annotation slip marked 'Konc. [= conceptacles]'. Third box (with fragments) and dated only 'i.1893' contains one annotation slip marked 'Konc. [= conceptacles]' and another slip marked 'Enp. konc. [= uniporate (enporede) conceptacles]' and 'Poren ligger dypt [= the pore laying deep]']; **TRH C24-3726**.

Rosenvinge; [Denmark]; udenfor [= outside] Korsør Havn; [no habitat data]; 13.v.1892; [no slides]; [ex] Bot. Mus. Kbhavn **[C]**, Rosenvinge collection number 2481; [no pfa]; [Note: box marked '*Ph. polymorphum* f. *sublaevis*'. The epithet *sublaevis* is superfluous for the epithet *papillata*]; **TRH C24-3727**.

Sauvageau; [France]; Dept. de la Charente Inférieure, Ile de Ré; [no habitat data]; iii.1900; slide 1654; comm. Borne; pfa: Printz 1929, pl. 39, fig. 12; [Note: box marked '*Ph. polym.*

f. *sublaevis* (s. m. [= mixed with] *L. lenorm* & *L. incrust.*). The epithet *sublaevis* is superfluous for the epithet *papillata*. Relevant collection of *Lithothamnion lenormandii* is B5-1933. Relevant collection of *Lithophyllum incrustans* is A7-350. One specimen in box marked '1654' in pencil. Annotation slip in box marked '4 delte sp. [= 4-parted sporangia]'. Grouped by Adey & Lebednik 1967: 91 under one entry with collections belonging to f. *polymorphum* (C24-3696, C24-3697) and f. *tuberculata* (C24-3730)]; **TRH C24-3728.**

polymorphum, Phymatolithon (f. sublaevis) [see entries under *Phymatolithon polymorphum* f. *papillata* (above and in Drawer C23). The epithet *sublaevis* is a superfluous substitute and thus illegitimate epithet for *papillata*. Additional data — Woelkerling 1993: 168, 211].

polymorphum, Phymatolithon (f. tuberculata) [originally described as *Lithothamnion polymorphum* f. *tuberculata* (Foslie 1895a: 114) but subsequently (Foslie 1905c: 76) species and forma transferred into *Phymatolithon* as *P. polymorphum* f. *tuberculata*. Additional data on name — Woelkerling 1993: 227. Collections listed in Adey & Lebednik 1967: 90-91 under *Phymatolithon polymorphum* without mention of forma. Additional collections are in Drawer C23]. **Type:** not designated (Woelkerling 1993: 227), and collections pre-dating the protologue not found in **TRH** during present study.

Jónsson; Island [= Iceland]; Vestmanneyjar; [no habitat data]; 20.v.1897; [no slides]; Jónsson collection number 381; pfa: Printz 1929, pl. 39, fig. 4; [Note: annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C24-3729.**

Sauvageau; [France]; Dept. de la Charente Inférieure, Ile de Ré; [no habitat data]; iii.1900; [no slides]; comm. Bornet; pfa: Printz 1929, pl. 39, fig. 8; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped in Adey & Lebednik 1967: 91 under one entry with collections belonging to f. *polymorphum* (C24-3696, C24-3697) and f. *papillata* (C24-3728)]; **TRH C24-3730.**

Wittrock; Sverige [= Sweden]; Grebbestad; [no habitat data]; [no date]; [no slides]; ex herb. Aresch. [**S**]; pfa: Printz 1929, pl. 39, fig. 3; [Note: box faintly marked '(+ *Padinella*)'. *Padinella parvula* is considered to be a synonym of *Cutleria multifida*]; **TRH C24-3731.**

Phymatolithon sp.

Gran; [Norway]; Drøbak; [no habitat data]; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens on two stones. Box marked '*Phymatolithon?*' without a species name. Collection rediscovered during present study and placed in Drawer C24 which also contains C24-3675, which has the same collection data. Collection not included in Adey & Lebednik 1967]; **TRH C24-3874.**

Inadequately documented collection

The following inadequately documented collection was found in Drawer C24 during the present study.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date data]; [no slides]; [no other collection data]; [no pfa]; [Note: collection lacks all data and consists of a specimen on a large flattened stone housed in an envelope. Collection not included in Adey & Lebednik 1967]; **TRH C24-3871.**

Case C, Drawer 25

During the present study, two notes were found in Drawer C25 that could not be linked with certainty to any collection. The notes have been placed in an envelope marked 'Loose notes found in Drawer C25'.

crustaceum, Lithothamnion [name apparently not validly published, but annotation on C25-3732 suggests that it was intended as a new combination for *Spongites crustacea* (Kützling 1843: 386). *Lithothamnion crustaceum* first listed (Foslie 1895a: 167) as 'Syn. *Lithothamnion crustaceum* Batt. herb.' in the protologue of *Lithothamnion laevigatum* Foslie. Not mentioned again by Foslie in publication, but listed as a separate species in Adey & Lebednik 1967: 91].

Batters; [United Kingdom]; Berwick; [no habitat data]; 27.ii.1889; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Lithothamnion crustaceum* (= *Spongites crustacea* Kütz. Spec. Alg. p. 698)'. One annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Another slip marked 'Konc. [= conceptacles]'. Berwick is more likely to be Berwick-upon-Tweed England than Berwick County Scotland on the basis of information in Batters 1890a & 1890b and on **TRH** collection C24-3655]; **TRH C25-3732**.

embolooides, Lithothamnion [originally described as *Lithothamnion embolooides* Heydrich 1900c: 74 but treated by Foslie (1901d: 12, 1905c: 79) as a heterotypic synonym of *Lithothamnion laevigatum* (= *Phymatolithon laevigatum*). Species not mentioned in Adey & Lebednik 1967]. **Type:** apparently not designated. **TRH** has two probable syntypes (C25-3733, C25-3630

[Anon.]; [Germany]; Helgoland; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '404' and '4b Heydr.'. **Probable syntype** material of *Lithothamnion embolooides* Heydrich. This is likely to be the Heydrich material of *Lithothamnion embolooides* that Foslie (1905c: 79) indicated he saw. Collection consists of two small original round boxes housed in a new brown box. One original box contains three fragments and is marked '404' and '4b Heydr.' and '*Lith. embol.*' and also is faintly marked '*Phym. laevig.*'. Second original box contains five fragments and is marked '*L. embol.*' and '625' and 'Helgol.'. Annotation slip in second box marked 'konc. [= conceptacles]'. Collection rediscovered during present study. Collection not included in Adey & Lebednik 1967 and not mentioned in Woelkerling 1993]; **TRH C25-3733**.

[Anon.]; [Germany]; Helgoland; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Phym. polym.*' and 'Heydr.' and '*Lith. embol.*' and '4a'. **Probable syntype** material of *Lithothamnion embolooides* Heydrich. Collection found in Drawer C23 during present study but has been transferred to Drawer C25 and listed with other syntype collection (C25-3733) of the species. C25-3630 grouped with C23-3629 (*Phymatolithon polymorphum*) under one entry in Adey & Lebednik 1967: 89]; **TRH C25-3630**.

laevigatum, Phymatolithon [originally described as *Lithothamnion laevigatum* (Foslie 1895a: 167). Subsequently (Foslie 1898b: 8) transferred without change in rank into *Phymatolithon*, then (Foslie 1901d: 12, footnote 4) reduced to the rank of forma and treated as *Phymatolithon polymorphum* f. *laevigatum*, and then (Foslie 1905c: 79) re-elevated to species rank as *Phymatolithon laevigatum*]. **Lectotype:** **TRH**, C25-3749 (see below).

Collins, F.S.; [United States]; Maine, Kennebunkport; in lower pool; [no date]; one unnumbered slide; Collins collection E; [no pfa]; [Note: slide marked with name, locality, and 'Collins E.']; **TRH C25-3734**.

Collins, F.S.; [United States]; Rhode Island, Newport; in tide pools; v.1896; [no slides]; [no other collection data]; [no pfa]; [Note: box lid marked '*Ph. laevigat.?*' on the top and '*Ph.*'

- laevigatum* at the base. Annotation slip in box marked '*Ph. laevigatum*'. Grouped with C25-3736 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3735**.
- Collins, F.S.; [United States]; Rhode Island, Newport; in tide pools; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of a stone marked '521'. Annotation slip marked '2 delte sp. [= 2-parted sporangia]' and '*L. polym. nærmer sig* [= grading into] *laevig.*' and 'Newport' and 'in lit. /10 98 [= in correspondence October 1898]'. Grouped with C25-3735 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3736**.
- Foslie; [Norway]; Drøbak; collection depth: ca 1 fathom; 10.viii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box faintly marked 'Sp. konc. [= sporangial conceptacles]']; **TRH C25-3738**.
- Foslie; [Norway]; Fredriksværn [in Larvik municipality], Tilsedammen – Risøgrund [now Tilsler - Risøya]; collection depth: ca 5 fathoms; 20.vii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. laevigatum?*' and 'Ej sp. [= no sporangia]' and 'Unders. konc. [= examined conceptacles]'. Adey & Lebednik 1967: 90 mistakenly give the locality as Frederikshavn, Denmark]; **TRH C25-3737**.
- Foslie; [Norway]; Skudesnes; 'øverst sublit. [= uppermost sublittoral]'; 24.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. laevig.?*'. Annotation slip in box marked 'Finder kun dyr i konc. [= find only animals in conceptacles]']; **TRH C25-3739**.
- Gran; [Norway]; Drøbak; 'paa sten s. m. *L. lenorm.* [= on stone mixed with *Lithothamnion lenormandii*']; xii.1895; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 39, fig. 13; [Note: box marked 'Konc. fotogr. [= conceptacles photographed]'. Annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Relevant collection of *Lithothamnion lenormandii* is B5-1907. Grouped with C25-3741 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3740**.
- [Gran]; [Norway]; Drøbak; [no habitat data]; xii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C25-3740 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3741**.
- Gran; [Norway]; Drøbak; collection depth: 5-6 fathoms; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. laevigatum?*'. Annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C25-3743 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3742**.
- Gran; [Norway]; Drøbak; collection depth: 5-6 fathoms; 12.vii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip in box with collection information also marked '*glac.?*'. Second slip in box marked 'Konc.? [= conceptacles?']'. Grouped with C25-3742 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3743**.
- Hanna; Irland [= Republic of Ireland]; Co. Austrim, Larne; [no habitat data]; ix.1898; slide 295; [no other collection data]; [no pfa]; [Note: collection consists of two annotation slips, one slide and a small round original box marked 'Anderss. 295'. Box contains one specimen. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. One annotation slip with collection data also marked 'Co. Austrim' and 's. med [= mixed with] *L. sonderi*'. Second annotation slip marked 'Bittersmaa cell. [= very small cells]' and 'Daarligt snit [= not clear cut]' and 'luftblærer [= air bubbles]']; **TRH C25-3744**.
- Howe; [Canada]; Nova Scotia, Halifax Harbor, Ferguson's Cove; on stones from low water mark down to 6 meters; ix.1901; [no slides]; New York Botanical Garden [NY], 1102a-1102b [Howe collection numbers]; [no pfa]; [Note: box marked 'a. *Cl. compactum*' and 'b. *Ph. polymorphum* f. *laevigata laevigatum?*'. Box also faintly marked '(2 æsker blandt [= two boxes among] *polym.*)'. Collection consists of specimens on one stone marked '1102a' on one side and '1102b' on the other side. Two annotation slips in box printed with 'North American Marine Algae' and with locality data and date 'September 2-7, 1901' occur. One slip also marked by hand with 'Ferguson's Cove', habitat data and 'No. 1102a (The smoother, thicker, lighter-colored one)'. Other slip also marked by hand with 'Ferguson's Cove', habitat data and 'No. 1102b (The squamulose, thinner, pinkish one)'. Third annotation slip (without printed information) marked 'Konc. [= conceptacles]'. Grouped with C25-3746 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3745**.

- Howe; [Canada]; Nova Scotia, Halifax Harbor, Ferguson's Cove; on stones from low water mark down to 6 meters; ix.1901; [no slides]; New York Botanical Garden [NY], 1102c [Howe collection number]; [no pfa]; [Note: box marked '*Ph. polymorphum* f. *laevig. laevigatum*?'. One annotation slip in box printed with 'North American Marine Algae' and with locality data and date 'September 2-7, 1901' occurs. The slip is also marked by hand with 'Ferguson's Cove', habitat data and 'No. 1102c'. Grouped with C25-3745 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3746.**
- Howe; [Canada]; Nova Scotia, Halifax Harbor, Pt. Pleasant; near low water mark; 5.ix.1901; one slide labelled with Howe collection number 1095; New York Botanical Garden [NY], 1095 [Howe collection number]; [no pfa]; [Note: box marked '*Phym. polymorphum* f. *laevigata laevigatum*?'. Slide marked '*Phym. polymorphum* f. *laevigata*'. One annotation slip in box printed with 'North American Marine Algae' and with locality data and date 'September 2-7, 1901' occurs. The slip is also marked by hand with '*Lithothamnion laeve* (Strömff.) Foslie' and 'Pt. Pleasant' and 'Sept. 5' and habitat data and 'No. 1095'. Second annotation slip marked 'Ej seet sp. derfor muligens [= sporangia not seen, maybe therefore] *L. polym. f. papillata*'. Third annotation slip marked 'Daarligt snit [= not clear cut]']; **TRH C25-3747.**
- Jónsson; Færøerne [= Faeroe Islands]; Østerø, Glibre; [no habitat data]; 18.x.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C25-3748.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; iii.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a cigar box. One annotation slip in box marked '21' and '*Lithothamnion laevigatum* Fosl.' and 'Lith. p. 139' and 'Helgoland' and 'leg. Dr. Kuckuck'. 'Lith. p. 139' refers to the independently paginated version of Foslie 1895a. In the journal version, the page number is 167. Second annotation slip in box marked 'Helgoland, /3 95?', presumably the collection date. Adey & Lebednik 1967: 91 mistakenly give the collection date as 'iii.1893']; **TRH C25-3752.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; vi.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. [= sporangial conceptacles]' and '*Ph. laevigatum* (og [= and] *polym.*)'. Relevant collection of *Phymatolithon polymorphum* probably is C24-3711. Grouped with C25-3751 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3750.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; vi.1893; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. laevigatum* og [= and] *L. lenormandi* f. *sublaevis*' and 'Obs. [= observed] = *L. embolooides* Heydr.!!?'. One annotation slip in box marked 'Konc. [= conceptacles]'. Second lips marked 'Type?'. Third slip has locality and data information and also is marked '*laevigatum* f. *tenuissima*'. The name '*laevigatum* f. *tenuissima*' appears to be an unpublished herbarium name. Grouped with C25-3750 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3751.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; vi.1893; slides 212-213 and 18 unnumbered slides; comm. Kuckuck; [no pfa]; [Note: box marked 'Kun sp. konc.? [= only sporangial conceptacles?]' and '*Phym. polymorphum* f. *laevigata*' and 'Præp. [= slide] Anderss. 212 mindste ekspl. [= smallest specimen]' and 'Præp. [= slide] Anderss. 213 største ekspl. [= largest specimen]' and 'afk. præp. af begge i same snit [= decalcified slides of both in same cut]'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Slides 212-213 marked '*Phymatolithon laevigatum*' and 'Helgoland, vi.1893' and 'leg. Kuckuck'. All 18 unnumbered slides marked '*Phymatolith. laevigatum*' and 'Helgoland, vi.1893' and '= 212, 213'. Seventeen unnumbered slides also marked 'leg. Kuckuck' but one marked 'comm. Kuckuck'. Collection also includes one fragment in a small round box marked 'Præp. [= slide] Anderss. 213']; **TRH C25-3841.**
- Kuckuck; [Germany]; Helgoland; [no habitat data]; [no date]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 19, figs 21, 23, and Printz 1929, pl. 39, fig. 14; [Note: **Lectotype** of *Lithothamnion laevigatum* Foslie. Additional data — Woelkerling 1993: 135, Chamberlain & Irvine 1994b: 215, 217 (who mistakenly list the collector as 'Kjellman'),

- and Woelkerling 1998c: 351. Box marked '*Ph. laevigatum*'. Annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Adey & Lebednik 1967: 91 stated that two boxes formed the collection but only one is present]; **TRH C25-3749.**
- Kylin; [Sweden]; Bohuslen, Kristineberg; [no habitat data]; viii.1905; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Phym. laevigatum?* (og liden skorpe [= and small crust] *L. sonder?*)']; **TRH C25-3753.**
- Mackay; [Canada]; Nova Scotia, Halifax Harbour, Point Pleasant; [no habitat data]; 15.xi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Ekspl. med *glaciale* og *polym.?* af nr. 7 fra s. lok. [= specimen with *glaciale* and *polym.?* of number 7 from same locality]'. Annotation slip also marked '6½'. One of two specimens in box also is marked '6½' and '29....97 [difficult to see]. There is no Mackay specimen numbered 7 in Foslie's herbarium]; **TRH C25-3754.**
- Ostenfeld; [Denmark]; Limfjorden, Livø Bredning; [no habitat data]; iv.1900; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: grouped with C25-3756 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3755.**
- Ostenfeld; [Denmark]; Limfjorden, Livø Bredning, udfor Livø's vestsider [= outside the west side of Livø]; collection depth: 2.5-4 fathoms; 4.viii.1900; [no slides]; [ex] Bot. Mus. Kbhavn [C]; [no pfa]; [Note: grouped with C25-3755 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3756.**
- Rosenvinge; [Denmark]; Kattegat, Søberghoved Grund, nord for [= north of] Sjælland; collection depth: 4½ fathoms; 18.iv.1894; [no slides]; [ex] Bot. Mus. Kbh. [C], collection number 4501; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]']; **TRH C25-3757.**
- Rosenvinge; [Denmark]; Storebelt ved lysbøjen ved Halsskov Rev [= Storebelt near the light buoy at Halsskov Rev]; collection depth: 5-6 fathoms; 9.ii.1892; [no slides]; [ex] Bot. Mus. Denmark [C]; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C25-3758.**
- Waghorne; [Canada]; Newfoundland; [no habitat data]; 1897; [no slides]; number 4; [no pfa]; [Note: one annotation slip in box marked '*Ph. laevigatum* delvis [= in part]'. Second annotation slip marked '4'. Grouped with C25-3760 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3759.**
- Waghorne; [Canada]; Newfoundland; [no habitat data]; ix.1897; [no slides]; number 5a; [no pfa]; [Note: grouped with C25-3759 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3760.**
- [Anon.]; [Germany]; [Helgoland]; [no habitat data]; 12.xi.1892; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked '12.xi.92' and '1 ekspl. (største) [= one specimen (largest)]'. This specimen originally was found in the same box as C25-3765 but has a different collection date and thus was removed from that collection and treated separately. Not listed as a separate collection in Adey & Lebednik 1967: 91]; **TRH C25-3765.**
- [Anon.]; [Germany]; [Helgoland]; [no habitat data]; vi.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection includes five loose stones and material placed in three different plastic packets in 1986 by Linda M. Irvine [BM]. First packet contains fragments and an annotation slip marked 'Sterile bits'. Second packet contains one stone and some fragments and a determinavit slip from L. Irvine marked '*Ph. laevigatum*' and 'ii.86'. Third packet contains one stone and some fragments and a determinavit slip from L. Irvine marked '*Ph. rugulosum*' and 'ii.86'. Collection also includes two older annotation slips, one marked with the collection date and one marked 'Konc. [= conceptacles]'. Entire collection (C25-3764) grouped with C25-3765 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3764.**
- [Anon.]; [Germany]; [Helgoland]; [no habitat data]; vi.1893; [no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip in box marked 'Konc. [= conceptacles]'. Second annotation slip marked 'vi.93 [= 1893]' and 'Helgoland'. The specimen now treated as C25-3764 was found in the same box as C25-3765, but was collected on a different date

- and thus is treated here as a separate collection. C25-3765 grouped with C25-3764 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3765.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; vi.1893; [no slides]; comm. Kuckuck; [no pfa]; [Note: collection consists of one specimen and two fragments in a new brown box. One annotation slip in box marked 'ca. 25-30 porer [= pores]'. Second annotation slip is marked '*Phym. polymorphum* f. *laevigata*' and 'Helgoland /6 1893' and 'comm. Kuckuck'. Collection rediscovered during present study. Collection not included in Adey & Lebednik 1967]; **TRH C25-2331.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; vi.1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of material in two quadratic boxes now housed in a newer brown box. One quadratic box contains one specimen and is marked 'Helgoland'. One annotation slip in this box marked 'Konc. [= conceptacles]'. Second slip in this box marked '*laevig.*' and 'Helgol.'. Second quadratic box contains two fragments and is marked 'Helgoland, vi.1893' and '*L. laevigatum*'. Annotation slip in this box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C26-3767 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3766.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; 29.i.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a cigar box. Annotation slip in box marked 'Konc. [= conceptacles]'. Collection also includes fragments in a small quadratic box marked 'No. 3']; **TRH C25-3763.**
- [Anon.]; [Germany]; Helgoland; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Sp. konc. [= sporangial conceptacles]'. Grouped with C25-3766 under one entry in Adey & Lebednik 1967: 91]; **TRH C25-3767.**
- [Anon.]; [Norway]; Drøbak; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one fragment in a small round box marked '*Ph. laevigatum*' and 'Drøbak'. The Drøbak collection of *Phymatolithon laevigatum* to which this material belongs (see C25-3738, C25-3740, C25-3741, C25-3742, C25-3743) could not be determined and thus it has been listed as an inadequately documented collection. Collection not included in Adey & Lebednik 1967]; **TRH C25-3842.**
- [Anon.]; [Norway]; Haugesund, Salhus; collection depth: 8-10 fathoms, 'sterk strøm [= strong current]'; 19.vii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: one annotation slip in box marked 's. m. [= mixed with] *L. leave* og [= and] *L. sonderi*' and 'Obs. smaa konc. [= observed small conceptacles]' and 'Vistnok ialf. delvis [= probably in part] *Ph. laevigatum*'. Relevant collection of *Lithothamnion laeve* is B4-1861. Relevant collection of *Lithothamnion sonderi* is B15-2391. Second annotation slip marked 'Obs. *polymorphum* s. med *L. interm.* vistnok = *laevigatum* [= observed *polymorphum* mixed with *L. interm.* probably = *laevigatum*]. Relevant collection of *Lithothamnion polymorphum* is C23-3632. Third annotation slip marked 'De fleste med konc., ikke sp. [= most with conceptacles, no sporangia]']; **TRH C25-3768.**
- [Anon.]; [Norway]; Nesodden; [no habitat data]; 1894 [but see Note]; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 19, fig. 22; [Note: annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C25-3770 under one entry in Adey & Lebednik 1967: 91. Adey & Lebednik list the collection date as '14.xii.1894', but only the year is faintly visible on the box]; **TRH C25-3769.**
- [Anon.]; [Norway]; Nesodden; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: annotation slip in box marked 'Konc. [= conceptacles]'. Grouped with C25-3669 under one entry in Adey & Lebednik 1967: 91, who list the collection date as '14.xii.1894']; **TRH C25-3770.**
- [Anon.]; [United Kingdom]; Berwick; [no habitat data]; 27.ii.1889; [no slides]; ex herb. Bernet [PC]; [no pfa]; [Note: box marked 'Cyst. konc.? [= cystocarpic conceptacles?]. Berwick is more likely to be Berwick-upon-Tweed England than Berwick County Scotland on the basis of information in Batters 1890a & 1890b and on TRH collection C24-3655]; **TRH C25-3762.**

- [Anon.]; [United Kingdom]; England; [no habitat data]; 1899; [no slides]; ex herb. E.M. Holmes [**BM**, not **BIRM** as indicated by Stafleu & Cowan 1979: 260]; [no pfa]; [Note: it is not clear whether the collection was made in 1899 or sent that year or both. Box marked 'lok. mgl. [= locality... (meaning unclear)]'. Annotation slip in box marked 'Konc. [= conceptacles]']; **TRH C25-3761**.
- [Anon.]; U.S. America [= United States]; Maine, Eastport; [no habitat data]; ix. [no year]; slide 482; ex herb. Farlow [**FH**], 1900, collection number VII; [no pfa]; [Note: one annotation slip in box is printed with 'Herb. W.G. Farlow' [**FH**] and also is marked by hand with '*L. strömfeltii*' and '*L. foecundum* f.?' and 'Delvis ogsaa [= also in part] *compactum*!'. Relevant collection of *L. strömfeltii* is B4-1783, placed by Foslie under *Lithothamnion laeve*. Relevant collection of *Clathromorphum compactum* is C20-3447. Second slip marked 'Vistnok [= probably] = *Ph. laevigatum*' and '(og [= and] *Ph. comp.*)'. Third slip marked 'Ene ekspl. cyst. konc. [= one of the specimens cystocarpic conceptacles]' and 'Ogsaa blandt [= also among] VI (*comp.*)'. Collection includes one fragment in a small box marked '482']; **TRH C25-3771**.
- [Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [ex] Science & Art Mus. Dublin, number 18 'delvis [= in part]'; [no pfa]; [Note: box marked 'Sands. [= probably] *L. laevigatum* (Kun dette, resten *incrust.* [= only this one, the rest *incrust.*)]']; **TRH C25-3772**.

Case C, Drawer 26

***glaciale*, *Lithothamnion* (f. *torosa*)**. See listing below for ***investiens*, *Phymatolithon* (f. *torosa*)**

investiens*, *Phymatolithon [originally published as *Lithothamnion investiens* (Foslie 1895a: 157) but as a superfluous and thus illegitimate name for *Lithophyllum zonatum* (Foslie 1890: 10) (details provided by Woelkerling 1993: 130, 239). Foslie (1905c: 81) later transferred *Lithothamnion investiens* into *Phymatolithon*, thus creating a second superfluous and thus illegitimate name (*Phymatolithon investiens*) for *Lithophyllum zonatum*. Foslie, however, retained the name *Phymatolithon investiens* in subsequent publication, and specimens in his herbarium are labelled with that name. Additional collections are in Drawers C 27 and C 28].

- Foslie; [Norway]; Finmarken [now Finnmark], Kistrand; 'paa [= on] *L. glaciale*'; 11.viii.1891; slide 889; [no other collection data]; [no pfa]; [Note: collection includes one fragment in a small round box marked '889']; **TRH C26-3774**.
- Foslie; [Norway]; Finmarken [now Finnmark], Kjelvik.; collection depth: 15-20 fathoms, 'paa [= on] *L. glac* [= *Lithothamnion glaciale*']; 5.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Phym. investiens* (alle? [= all?])']; **TRH C26-3776**.
- Foslie; [Norway]; Finmarken [now Finnmark], Kvalsund; [no habitat data]; 1891; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 5; [Note: Adey & Lebednik 1967: 92 omit mention of this collection but included the pfa with the type of *P. investiens* f. *torosa* (C26-3787)]; **TRH C26-3777**.
- Foslie; [Norway]; Finmarken [now Finnmark], Kvalsund; [no habitat data]; 1891; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 7; [Note: box marked '*Phym. investiens* (over *L. glac.*?)'. Adey Lebednik 1967: 92 omitted mention of this collection but included the pfa with the type of *P. investiens* f. *torosa* (C26-3787)]; **TRH C26-3778**.
- Foslie; [Norway]; Finmarken, Rognsund, Mjaanes [now Finnmark, Rognsundet, Mjånes]; collection depth: ca 15 fathoms; 14.vi.1898; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. investiens* (s. m. [= mixed with] *L. glac.*)']; **TRH C26-3779**.

- Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depth: 5 fathoms; 19.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 4; [Note: collection housed in a large open box that also contains a smaller round box with collection data and pfa data on lid. Additional material with same species name, locality and date occurs in ancillary herbarium (see Chapter 5)]; **TRH C26-3780.**
- Hartz; Grønland [= Greenland]; Hekla Havn; collection depth: 10 fathoms, 'paa [= on] *L. glac.* [= *Lithothamnion glaciale*']; 1891; [no slides]; [no other collection data]; [no pfa]; [Note: collection not included in Adey & Lebednik 1967]; **TRH C26-3781.**
- [Anon.]; [Norway]; Finmarken [now Finnmark], Galten; collection depth: 6-8 fathoms; 28.vi.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 8; [Note: collection consists of one large specimen housed in an open box. Collection information marked on a piece of paper pasted to the specimen]; **TRH C26-3783.**
- [Anon.]; [Norway]; Finmarken [now Finnmark], Lebesby; collection depth: 10-20 fathoms, 'paa [= on] *L. norv. f. ung.*'; viii.1883; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of several specimens housed in an open wooden box accompanied by collecting information on a piece of paper. Wooden box also contains a small open quadratic box with one specimen. Annotation slip in closed quadratic box marked 'Lebesby, viii.1883' and 'Sp. & cyst. konc. [= sporangial & cystocarpic conceptacles]']; **TRH C26-3784.**
- [Anon.]; [Norway]; Tromsø, Lyngø [now Lyngøya]; collection depth: 5-6 fathoms; 15.vi.1892; slide 200; [no other collection data]; pfa: Foslie 1895a, pl. 22, figs 2, 5; [Note: collection found in C26-3775 during present study (also noted by Athanasiadis 2001: 102) but now housed in a separate brown box. Collection includes a larger quadratic box and fragments in a small round box marked 'Præp. [= slide] Andress. 200' and 'Lith. pl. 22, f. 5'. 'Anderss.' denotes R.A. Andersson, the name of a slide making company used by Foslie. Annotation slip in quadratic box marked with collection depth data. Slide marked 'Lith. pl. 22, f. 5' while lid of larger quadratic box marked 'Lith. pl. 22, fig. 2, 5'. Lid of quadratic box also incorrectly marked as type material (with orange underline) by Adey & Lebednik 1967: 92, who also incorrectly list the locality as occurring in Finnmark. Further information on the incorrect typification is provided by Woelkerling 1993: 239]; **TRH C26-3785.**
- [Anon.]; [Norway]; Alta, Lille Lærridsfjorden [now Alta, Lille Lerresfjorden]; collection depth: 10 fathoms, 'paa [= on] *L. ungeri?*'; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of 14 specimens/fragments housed in an open wooden box. Collecting information on two annotation slips in box. One slip also marked '*L. torosum?* Jfr. [= cf.] *investiens*' and '*L. invest.* paa [= on] *ungeri*'. Second slip also marked 'Skorpe over *ung.* med koncent. furer under *u.* som hos *L. expansum*. Tem. ulig typisk *glac.* [= crust over *ung.* with concentric furrow under *ungeri* as with *L. expansum*. Rather different from typical *glac.*']; **TRH C26-3782.**
- [Anon.]; [Norway]; Lyngø [now Lyngøya]; [no habitat data]; 12.vi.1892; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*L. ocellatum investiens*'. The entry in Adey & Lebednik 1967: 92 reads '-----, Norway, 12.6.1892']; **TRH C26-3773.**

***investiens*, *Phymatolithon* (f. *ocellatum*)** [originally described as *Lithothamnion ocellatum* (Foslie 1895a: 140), then (Foslie 1898b: 8) transferred without change in rank into *Phymatolithon*, and then (Foslie 1905c: 81) reduced to the rank of form and treated as *Phymatolithon investiens* f. *ocellata*. Collection listed in Adey & Lebednik 1967: 92 under *Phymatolithon investiens* but flagged as the type of *P. ocellatum*. Additional collection of *Phymatolithon investiens* f. *ocellatum* is in Drawer C27]. **Holotype:** TRH, C26-3786 (see below).

- Foslie; [Norway]; Lyngø [now Lyngøya] ved [= near] Tromsø; collection depth: 5-6 fathoms; 12.vi.1892; slide 211; [no other collection data]; pfa: Foslie 1895a, pl. 19, fig. 10, and Printz 1929, pl. 40, fig. 2; [Note: **Holotype** of *Lithothamnion ocellatum* Foslie. Additional

data — Woelkerling 1993: 162. Flagged as type material of *Lithothamnion ocellatum* by Adey & Lebednik 1967: 92 but listed under *Phymatolithon investiens*]; **TRH C26-3786**.

investiens, *Phymatolithon* (f. *torosa*) [originally described as *Lithothamnion glaciale* f. *torosa* (Foslie 1895a: 41), then (Foslie 1900i: 11) transferred without change in rank to *Lithothamnion investiens* as *L. investiens* f. *torosa*, and then (Foslie 1905c: 81) species and forma transferred from *Lithothamnion* into *Phymatolithon* as *P. investiens* f. *torosa*. Collection listed in Adey & Lebednik 1967: 92 under *Phymatolithon investiens* without mention of forma]. **Lectotype: TRH, C26-3787** (see below).

Foslie; [Norway]; Finmarken [now Finnmark], Kvalsund; [no habitat data]; 17.vii.1891; slide 888; [no other collection data]; pfa: Foslie 1895a, pl. 1, figs 1-2; [Note: **Lectotype** of *Lithothamnion glaciale* f. *torosa* Foslie. Additional data — Woelkerling 1993: 224. Collection consists of specimens in a very large closed quadratic box which also contains a smaller quadratic box. Green tag on one specimen marked 'Præp. [= slide] 888'. Lid of small quadratic box and an annotation slip marked 'Præp. [= slide] 888 = *glac.*?']; **TRH C26-3787**.

ocellatum, *Lithothamnion*. See listing above for ***investiens, Phymatolithon* (f. *ocellatum*)**

varians, *Lithothamnion* (f. *irregularis*) [originally described as *Lithothamnion varians* f. *irregularis* (Foslie 1895a: 109). Species subsequently (Foslie 1905c: 27) treated as a heterotypic synonym of *Phymatolithon polymorphum* but without mention of the f. *irregularis*. Label on lectotype box (filed by Foslie in Drawer C 26 with collections of *Phymatolithon investiens*) marked '~~*L. varians* f. *irregularis* *investiens*~~', but in publication Foslie never listed *Lithothamnion varians* f. *irregularis* as a heterotypic synonym of *Phymatolithon investiens*. Collection listed in Adey & Lebednik 1967 under *Phymatolithon investiens* without mention of *Lithothamnion varians* f. *irregularis*]. **Lectotype: TRH, C26-3788** (see below).

[Anon.]; [Norway]; Finmarken, Berlevaag [now Finnmark, Berlevåg]; 'paa [= on *Laminaria* rødder [= roots], opk. fjæren [= washed ashore the tidal zone]'; 30.vi.1882; slide 135 and two unnumbered slides; [no other collection data]; pfa: Foslie 1895a, pl. 18, figs 6, 8; [Note: **Lectotype** of *Lithothamnion varians* f. *irregularis*. Additional data — Woelkerling 1993: 130. Box marked '~~*L. varians* f. *irregularis* *L. investiens* (?)~~' and faintly marked 'Maaske 2 ekspl. *glac.* [= maybe two specimens *glac.*]. One annotation slip in box marked 'det. Kjellm.' and '*polym.*'. Second slip marked 'Sp. konc. som *investiens* [= sporangial conceptacles as *investiens*]. Slide 135 marked '*L. varians* f. *irregularis*' but unnumbered slides marked '*L. varians*'. Collection includes fragments in a small round box marked '*L. varians*' and 'Præp. [= slide] Anders. 135' and 'Bærlevaag, 30.vi.1882'. 'Anders.' denotes R.A. Andersson, the name of a slide making company used by Foslie]; **TRH C26-3788**.

zonatum, *Lithophyllum* [originally described as *Lithophyllum zonatum* (Foslie 1890: 10). Subsequently (Foslie 1895a: 157) redescribed as *Lithothamnion investiens*, which is a superfluous epithet for *zonatum* (details provided by Woelkerling 1993: 130, 239). Foslie (1905c: 81) later transferred *Lithothamnion investiens* into *Phymatolithon*, thus creating a second superfluous and thus illegitimate name (*Phymatolithon investiens*) for *Lithophyllum zonatum*. Foslie, however, retained the name *Phymatolithon investiens* in subsequent publication, and specimens in his herbarium are labelled with that name. The type of *Lithophyllum zonatum* is listed here under its legitimate basionym but was listed in Adey & Lebednik 1967: 92 under *Phymatolithon investiens* without mention of forma. Athanasiadis (2001: 102-104) examined the type but found no conceptacles and came to

no conclusions concerning the generic disposition of the species]. **Holotype: TRH, C26-3775** (see below).

Foslie; [Norway]; Finnmark, Kjelmø [now Finnmark, Kjelmøya]; collection depth: 4-6 fathoms, 'paa [= on] *L. breviaxe*' [but see Note]; 3.viii.1887; [no slides]; [no other collection data]; pfa: Foslie 1895a, pl. 22, figs 3-4; [Note: **Holotype** of *Lithophyllum zonatum* Foslie. Additional data — Woelkerling 1993: 239 and Athanasiadis 2001: 102. Collection includes one fragment in a small quadratic box marked 'Pl. 22, fig. 3-4'. Annotation slip in quadratic box marked 'Kjelmø, Sydvaranger, 3.viii.1887' and 'På [= on] *Lith. glaciale*'. Larger box housing entire collection, however, marked 'paa [= on] *L. breviaxe*'. Collection C26-3785, found in this box during present study, has been removed and listed separately (also see by Athanasiadis 2001: 102)]; **TRH C26-3775**.

Inadequately documented collection

The following inadequately documented collection was found in Drawer C26 during the present study.

[Anon.]; [geographic region uncertain]; [no locality data]; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: collection lacks all data and consists of one large specimen housed in an open box. Collection not included in Adey & Lebednik 1967]; **TRH C26-3872**.

Case C, Drawer 27

Note: During the present study, Foslie's label (marked 'Lithothamnion, Eulithothamnion, investiens and 'C27') for Drawer C27 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Phymatolithon investiens*. It has been placed in an envelope marked 'Label for the original wooden Drawer C27 of the original cabinet in which Foslie's specimens were housed [see Woelkerling 1993: 8 (Gunneria Vol. 67)]'.

investiens, *Phymatolithon* [originally published as *Lithothamnion investiens* (Foslie 1895a: 157) but as a superfluous and thus illegitimate name for *Lithophyllum zonatum* (Foslie 1890: 10) (details provided by Woelkerling 1993: 130, 239). Foslie (1905c: 81) later transferred *Lithothamnion investiens* into *Phymatolithon*, thus creating a second superfluous and thus illegitimate name (*Phymatolithon investiens*) for *Lithophyllum zonatum*. Foslie, however, retained the name *Phymatolithon investiens* in subsequent publication, and specimens in his herbarium are labelled with that name. Additional collections are in Drawers C26 and C28. All collections in Drawer C27 were grouped together under one entry in Adey & Lebednik 1967: 92].

[Foslie]; [Norway]; [Finnmark], Tamsø [now Tamsøya]; [no habitat data]; 27.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of many specimens housed in an open carton with one annotation slip with collection data. Green tag on one specimen marked 'Fremst. sp. konc. fotogr. [= protruding sporangial conceptacles photographed]']; **TRH C27-3790**.

[Foslie]; [Norway]; Finnmark, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-12-15 fathoms, 'paa [= on] *L. tophiforme* ell. [= or] *sorif.*'; 28.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked '*Ph. polymorphum* f. *investiens*']; **TRH C27-3789**.

Foslie; [Norway]; [Finnmark], Tamsø [now Tamsøya]; collection depth: 10-12-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of

many specimens housed in an open carton with one annotation slip with collection data. Collection includes six fragments in a small unmarked open quadratic box]; **TRH C27-3791.**

[Foslie]; [Norway]; [Finnmark], Tamsø [now Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of four specimens now placed in a closed brown box. Annotation slip in box has collection data and also is marked '*L. investiens* s. med [= mixed with] *L. laeve*, *L. foec.*, *L. glac.*']; **TRH C27-3792.**

[Foslie]; [Norway]; [Finnmark], Tamsø [now Tamsøya]; collection depth: 10-12-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of 13 specimens housed in a wooden open box. Annotation slip in box has collection data and also is marked '*L. toph. overv. af [= overgrown by] investiens?*' and 'cfr. blandt [= cf. among] *ungeri*' and 'Et par ekspl. [= a couple of specimens] [writing unclear] *tophif.*']; **TRH C27-3793.**

Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. konc. fotogr. (konc. = *polym.*) [= sporangial conceptacles photographed (conceptacles = *polym.*)']]; **TRH C27-3795.**

[Foslie]; [Norway]; [Finnmark], Tamsø [now Tamsøya]; [no habitat data]; 30.vii.1897; one recently prepared slide marked '#6'; [no other collection data]; [no pfa]; [Note: box marked 'Fremst. sp. konc. [= protruding sporangial conceptacles]'. Slide marked '*Phymatolithon investiens*' and 'Finnmark' and with date incorrectly marked '3.vii.1897']; **TRH C27-3796.**

[Foslie]; [Norway]; [Finnmark], Tamsø [now Tamsøya]; [no habitat data]; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'cyst. [= cystocarpic]']; **TRH C27-3797.**

[Foslie]; [Norway]; [Finnmark], Tamsø [now Tamsøya]; [no habitat data]; 30.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: box marked 'Sp. [= sporangial]']; **TRH C27-3798.**

[Foslie]; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: ca 4 fathoms, 'paa [= on] *L. glaciale*'; 31.vii.1897; [no slides]; [no other collection data]; [no pfa]; [no notes]; **TRH C27-3799.**

Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 3; [Note: box marked '*Phym. investiens* (og [= and] *L. glaciale*)'. Collection rediscovered during present study and thus not included in Adey & Lebednik 1967]; **TRH C27-3800.**

Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 9; [Note: collection rediscovered during present study and thus not included in Adey & Lebednik 1967]; **TRH C27-3801.**

Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; slide 130; [no other collection data]; [no pfa]; [Note: box marked '*Phym. investiens*' but slide 130 marked '*L. invest. f. torosa*']; **TRH C27-3844.**

***investiens*, *Phymatolithon* (f. *ocellatum*)** [originally described as *Lithothamnion ocellatum* (Foslie 1895a: 140), then (Foslie 1898b: 8) transferred without change in rank into *Phymatolithon*, and then (Foslie 1905c: 81) reduced to the rank of form and treated as *Phymatolithon investiens* f. *ocellata*. Collection listed in Adey & Lebednik 1967: 92 under *Phymatolithon investiens* without mention of the forma. Additional collection of *Phymatolithon investiens* f. *ocellatum* is in Drawer C26]. **Holotype:** TRH, C26-3786 (in Drawer C26).

Foslie; [Norway]; Finmarken, Tamsø [now Finnmark, Tamsøya]; collection depth: 10-15 fathoms; 30.vii.1897; slide 886; [no other collection data]; [no pfa]; [Note: large round box marked '*Ph. investiens* f. *ocell.*' and 'Cyst. konc. fotogr. [= cystocarpic conceptacles pho-

tographed]’ and ‘*Phymatolithon investiens*’. Slide marked ‘*Ph. investiens* f. *ocellata*’. Collection includes fragments in a small round box marked ‘Cyst. konc. største ekspl [= cystocarpic conceptacles largest specimen]’ and ‘Præp. [= slide] 886’]; **TRH C27-3794**.

Case C, Drawer 28

During the present study, one note was found in Drawer C28 that could not be matched to any collection. The note has been placed in an envelope marked ‘Loose note found in Drawer C28 that could not be matched to any collection’. In addition, Foslie’s label (marked ‘Lithothamnion, Eulithothamnion, investiens’ and ‘C28’) for Drawer C28 of the original wooden cabinet that once housed his specimens was found amongst the specimens of *Phymatolithon investiens*. It has been placed in an envelope marked ‘Label for the original wooden Drawer C28 of the original cabinet in which Foslie’s specimens were housed [see Woelkerling 1993: 8 (Gunneria Vol. 67)]’.

hemisphaerica, *Corallina*. See listing below for *officinalis*, *Corallina* (f. *hemisphaerica*)

investiens, *Phymatolithon* [originally published as *Lithothamnion investiens* (Foslie 1895a: 157) but as a superfluous and thus illegitimate name for *Lithophyllum zonatum* (Foslie 1890: 10) (details provided by Woelkerling 1993: 130, 239). Foslie (1905c: 81) later transferred *Lithothamnion investiens* into *Phymatolithon*, thus creating a second superfluous and thus illegitimate name (*Phymatolithon investiens*) for *Lithophyllum zonatum*. Foslie, however, retained the name *Phymatolithon investiens* in subsequent publication, and specimens in his herbarium are labelled with that name. Additional collections are in Drawers C26 and C27].

Foslie; [Norway]; Finmarken [now Finnmark], Galten; collection depth: 6-8 fathoms; 28.vi.1897; slide 887; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 6; [Note: collection housed in a closed brown box. Grouped with C28-3803 under one entry in Adey & Lebednik 1967: 92]; **TRH C28-3802**.

Foslie; [Norway]; Finmarken [now Finnmark], Galten; collection depth: 6-8 fathoms; 28.vi.1897; [no slides]; [no other collection data]; pfa: Printz 1929, pl. 40, fig. 1; [Note: collection housed in a closed brown box. Grouped with C28-3802 under one entry in Adey & Lebednik 1967: 92]; **TRH C28-3803**.

[Foslie]; [Norway]; [Finnmark], Galten, Makviggrunden? [now Makkvikgrunnen?], indre fjord [= inner fjord]; collection depth: 6-8 fathoms; 28.-30.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens placed in three containers: and open carton, an open wooden box, and a green plastic box. It is unclear why the specimens were so organized. Collection data on a label in an open carton. Label also marked ‘Ngl. lokal men i mgd. [= somewhat local but in abundance]’. Collection not included in Adey & Lebednik 1967. Additional material with same species name, locality (but without mention of Makviggrunden) and date occurs in ancillary herbarium (see Chapter 5). Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) but with modern locality name (Finnmark, Hasvik, Galten)]; **TRH C28-3804**.

[Anon.]; [Norway]; Alten, Korsnes [now Alta, Storekorsnes]; collection depth: ca 15 fathoms; 18.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in a closed brown box. Collection data on a label which is marked ‘*Ph. investiens?*’ and ‘Vel neppe [= possibly not] *L. foecundum*’]; **TRH C28-3805**.

[Anon.]; [Norway]; Talvig, Korsnes [now Talvik, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in an open wooden box. Annotation slip with collection data also marked ‘Obs. konc.

tversn. ei runde som *polym.* [= observed conceptacles in cross-section not so round as *polym.*] and 'Baar konc. som typ. *polym.* og sand. som nærmer sig *glac.* [= bare conceptacles as typical *polym.* and perhaps grading into *glac.*']. Wooden box also contains three fragments in an original small round unmarked paper box. Collection not included in Adey & Lebednik; **TRH C28-3806.**

[Anon.]; [Norway]; Finm. [now Finnmark], ydre del [= outer part of] Hasfjord [now Hasfjorden], Brandholmen [now Brannholmen]; 'paa [= on] *L. glac.* ell. [= or] *fornic.*'; 21.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of one specimen in a large round original box without a lid and two fragments in a small round unmarked box, all housed in a newer closed brown box. One annotation slip with collection marked 'Finm. [= Finnmark], Brandholmen, ydre del [= outer part] Hasfjord, 21.vi.97' and '*L. invest* & *L. fornic.*'. Second annotation slip marked 'Hasvig (Hasfjord), Brandholmen i [= in] Hasfjord, 21.vi.97' and '*Ph. polym.-f. investiens*' and 'Paa [= on] *L. glac.* ell. [= or] *fornic.*'. Additional material with same species name (as well as *Lithothamnion glaciale* and *L. fornicatum*), locality and date occurs in ancillary herbarium under *Lithothamnion glaciale* (see Chapter 5)]; **TRH C28-3807.**

[Anon.]; [Norway]; Talvig, Korsnes [now Talvik, Storekorsnes]; collection depth: 15-20 fathoms; 10.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection housed in an open carton. Collection data on an annotation slip that also is marked 'S. m. [= mixed with] *laeve, flavesc. glac.* og [= and] *L. investiens* ofte m. lig [= often very similar to] *flavesc.*'. Adey & Lebednik 1967: 92 mistakenly give the locality as 'Hersnes' and give the collection depth as '20 fathoms']; **TRH C28-3808.**

***officinalis*, *Corallina* (f. *hemisphaerica*)** [originally described as *Corallina hemisphaerica* (Foslie 1887a: 175), but subsequently (Foslie 1905c: 9) reduced to the rank of form and treated as *Corallina officinalis* f. *hemisphaerica*, where Foslie retained it in publication. Taxon not included in Adey & Lebednik 1967]. **Holotype:** TRH, C28-3843 (see below).

Norman; [Norway]; Andøen [now Andøya] i [= in] Vesteraalen [now Vesterålen], mellem [= between] Søndre [= Southern] Mela og [= and] Bø; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: **Holotype** of *Corallina hemisphaerica* Foslie. Additional data — Woelkerling 1993: 115. Collection consists of one specimen in an open wooden box. Annotation slip in box marked with name, collector and locality data. Annotation slip attached to outside of box marked 'type for [= of] *C. hemisphaerica* (cf. Foslie 1886)'. Collection includes five photos identical to that shown in the protologue (Foslie 1887a: pl. 1). Collection also includes seven further photos, four glass negatives and an annotation slip in an envelope marked '*Corallina hemisphaerica*' housed in a large new envelope. Annotation card in envelope dated 1968 and marked 'Fotogr. av [= photographed by] Rolf Leistad 26/3 68' and 'Antikvarisk avd., museet [= antiquarian section, the museum]'. Collection not included in Adey & Lebednik 1967]; **TRH C28-3843.**

5 Catalogue of collections in Foslíe's ancillary coralline herbarium

Foslíe's ancillary coralline herbarium consists of 34 collections representing 18 specific and infraspecific taxa of nongeniculate corallines. All collections contain a number of individual specimens, and each collection is housed in one or several open-topped wooden crates. There are 81 crates in total. As noted by Woelkerling (1993: 9), these crates of material were not included in Adey & Lebednik (1967).

Information on several collections in the main coralline herbarium (e.g. A6-290, B17-2556) suggests that the ancillary collections originally were stored in a corridor cabinet (probably near to where Foslíe worked) and that Foslíe considered them to be duplicate material of collections in the main herbarium. The latter is not true of all collections, however, as noted below. At present, the ancillary collections are stored in an attic area distant from the main herbarium.

The format for individual entries follows that used in the main herbarium catalogue

(Chapter 4). Thus, collections are listed alphabetically by species (and within species alphabetically by form name), then by collector, then by locality, and then chronologically by date. The collection of *Lithothamnion fasciculatum* comes from the Republic of Ireland while all remaining collections come from localities in Norway. The subfossil material of *Lithothamnion fornicatum* was collected by R. Collett, while all remaining material either was collected by Foslíe or has no collector indicated. Collection dates range from 1890-1904 with most between 1894-1897.

Twenty-six of the 34 collections of ancillary material are also unequivocally represented by material in the main herbarium (Chapter 4) while 12-13 also are unequivocally represented in *Lithothamnion Selecta Exsiccata* (Chapter 6). Each relevant collection is cross-referenced to its counterparts in the main herbarium and *Lithothamnion Selecta Exsiccata*. Separate **TRH** collection numbers have not been assigned to material in the ancillary herbarium.

Foslíe's ancillary coralline herbarium

dehiscens, *Lithothamnion*

[Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 28.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One collection (**B23-2744**) in the main coralline herbarium (Chapter 4) has same locality and date data, but was filed by Foslíe under *Lithothamnion fornicatum*. Foslíe (1895a: 72) first described *L. dehiscens* as a distinct species, but later (Foslíe 1905c: 39) treated it as a heterotypic synonym of *L. fornicatum*].

fasciculatum, *Lithothamnion*

Foslíe; Republic of Ireland; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Three Foslíe collections of *L. fasciculatum* (**A23-1386**, **A23-1387**, **A23-1388**) from Roundstone in the main coralline herbarium (Chapter 4) have the collection date, but unlike the ancillary herbarium material, locality numbers within Roundstone are also specified. The main herbarium (Chapter 4) also contains

collections of *L. fasciculatum* f. *compressa* (**A23-1392**, **A23-1393**), *L. fasciculatum* f. *divaricata* (**A23-1394**), and *L. fasciculatum* f. *incrassata* (**A23-1395**) from the same locality and date, and thus it is possible that the crate in the ancillary herbarium contains a mixture of taxa].

fornicatum*, *Lithothamnion

[Collett]; [Norway]; Bodø; [collection level: 15-20 m o.h.] [= metres above sea level]; [1901]; [no slides]; subfossil, [ex Univ. Min. Inst.]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One subfossil collection of *L. fornicatum* (**B25-2751**) in the main herbarium (Chapter 4) has the same locality data and additional information concerning collector, collection date, collection level, and source of collection].

[Foslie]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Five collections of *L. fornicatum* (**B21-2710**, **B21-2711**, **B21-2712**, **B21-2713**, **B21-2714**) in the main herbarium (Chapter 4) (including the lectotype) have identical locality and date data. Foslie is presumed to be collector of all five although he is listed on only two. Material with same collecting information and listing Foslie as collector also occurs in *Lithothamnion Selecta Exsiccata* (see Chapter 6)].

Foslie; [Norway]; Skjørn, Rylstranden [now Stjørna, Rylstranda]; collection depth: ca 2 fathoms; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in two open-topped wooden crates. Crates said on annotation slip to contain specimens of f. *obcrateriformis* (a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160)) and specimens of f. *subsphaerica* (a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213)), but individuals within crates not separately identified to *forma* level. One collection of *L. fornicatum* (**C14-3208**) in the main herbarium (Chapter 4) has identical locality and date data but is identified only to species level. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) using the name *Lithothamnion fornicatum* f. *subsphaerica* + f. *obcrateriformis* and with the modern locality name Sør-Trøndelag, Stjørna but without mention of Rylstranden].

[Anon.]; [Norway]; Hasfjord [now Hasfjorden], [Hasvik, Brandholmen (now Brannholmen)]; [no habitat data]; 21.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One collection of *L. fornicatum* (**B23-2733**) in the main herbarium (Chapter 4) has identical locality and date data. Additional ancillary herbarium specimens with the same collection data occur in three crates filed under *Lithothamnion glaciale* (see entry below). The crates contain a mixture of *L. fornicatum*, *L. glaciale*, and *Phymatolithon investiens*].

[Anon.]; [Norway]; [Trondheimsfjorden], Garten ved [= near] Bejan [now Beian]; [under green turf just above high water mark]; [7.vii.1894]; [no slides]; subfossil; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One fossil collection of *L. fornicatum* (**B25-2763**) in the main herbarium (Chapter 4) has identical locality and date data. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6). Exsiccata box label gives modern locality name (Sør-Trøndelag, Ørland, Garten) and material is identified as *Lithothamnion fornicatum* f. *dimorpha*].

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in five open-topped wooden crates. Specimens identified as f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160). Three collections (**B24-2748**, **B24-2749**, **B24-2750**) in Drawer B24 and one collection (**B26-2783**) in Drawer B26 in the main herbarium (Chapter 4) have identical locality and date data but are identified only to species level. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) using the name *Lithothamnion forni-*

catum f. *obcrateriformis*, with Foslie listed as collector and with the modern locality name Sør-Trøndelag, Stjørna].

[Anon.]; [Norway]; [Trondheimsfjorden], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in two open-topped wooden crates. Crates said to contain specimens of f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160) and specimens of f. *subsphaerica*, a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. One collection (**B22-2728**) in Drawer B22 (identified only to species level), two collections (**B26-2779**, **B26-B26-2781**) (identified only to species level) in Drawer B 26, and the type of f. *sphaerica* (**B26-2789**) in Drawer B26 in the main herbarium (Chapter 4) have the same locality and date data].

[Anon.]; [Norway]; [Trondheimsfjord], Skjørn, Dalsøren [now Stjørna, Daleøra]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in three open-topped wooden crates. Crates said to contain specimens of f. *obcrateriformis*, a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160) and specimens of f. *subsphaerica* (a superfluous substitute name for f. *sphaerica* (Woelkerling 1993: 204-205, 213), but individuals within crate not separately identified to *forma* level. Two collections (**B26-2784**, **B26-2785**) in Drawer B26 in the main herbarium (Chapter 4) have identical locality and date data but are identified only to species level].

[Anon.]; [Norway]; Tustern [now Tustna], Skjælsund, i nærh. af [= in vicinity of] Linvaagen [now Linvågen]; [no habitat data]; 10.viii.1898 and 19.vii.1906; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Crate labelled '*L. fornicatum?*'. One collection of *L. fornicatum* (**B25-2765**) in the main herbarium (Chapter 4) dated '10.viii.1898' is from Tustern, but there is no mention of Skjælsund in the vicinity of Linvaagen. The only main herbarium collection from 'Tustern, Skjælsund in the vicinity of Linvaagen' and dated 19.vii.1906 (**C9-3090**) is identified as *Lithothamnion tusterense* and not *L. fornicatum*].

***fornicatum*, *Lithothamnion* (f. *dimorphum*)**

Foslie; [Norway]; Bejan [now Beian], Korsholmene; [no habitat data]; 7.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One collection (**B25-2753**) in the main herbarium (Chapter 4) has identical locality and date data but is labelled '*L. fornicatum* f.' without mention of *dimorphum*. Collection also represented in *Lithothamnion Selecta Exsiccata* (see Chapter 6) under the name *Lithothamnion fornicatum* f. *dimorphum* but with the modern locality name (Sør-Trøndelag, Ørland, Korsholmene)].

Foslie; [Norway]; Frøerne [now Froan], Hestvær; collection depth: 1-3 fathoms; 16.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate labelled *Lithothamnion fornicatum* forma. One collection (**B25-2769**) labelled '*L. fornicatum* f. (nærmest *dimorpha*)' in Drawer B25 in the main herbarium (Chapter 4) has identical locality and date data].

Foslie; [Norway]; [Trondheimsfjord], Frøjen [now Frøya], Rottingsundet; [no habitat data]; 10.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. The lectotype of *Lithothamnion dimorphum* (**B25-2773**) in the main herbarium (Chapter 4) has identical locality and date data. Foslie (1895a: 68) originally described the material as *L. dimorphum* but later (Foslie 1905c: 38) reduced the species to the rank of form and treated it as *Lithothamnion fornicatum* f. *dimorpha*].

***fornicatum*, *Lithothamnion* (f. *grandifrons*)**

[Anon.]; [Norway]; Herø [now Herøy, Nordland county]; [no habitat data]; 28.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens

housed in three open-topped wooden crates. Crates labelled *Lithothamnion fornicatum* f. *tuberculata*. There are no collections in the main herbarium (Chapter 4) labelled *L. fornicatum* f. *tuberculata* or *L. fornicatum* f. *grandifrons* with the same locality and date data. However, two collections (**B23-2746, B23-2747**) labelled *L. fornicatum* f. *grandifrons* in Drawer B23 have the same locality data but are dated 20.viii.1894. Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) under *Lithothamnion fornicatum* f. *tuberculata* but with modern locality name (Nordland, Herøy)].

fornicatum, Lithothamnion (f. robustum)

[Anon.]; [Norway]; Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in four open-topped wooden crates. Six collections (**B21-2716, B21-2717, B21-2718, B21-2719, B21-2720, B21-2721**), including the lectotype, in Drawer B21 in the main herbarium (Chapter 4) have identical locality and date data].

fornicatum, Lithothamnion (f. tuberculata). See listings under *Lithothamnion fornicatum* f. *grandifrons* (above). The epithet *tuberculata* is a superfluous substitute for the epithet *grandifrons*. Additional data - Woelkerling 1993: 110, 227.

glaciale, Lithothamnion

[Anon.]; [Norway]; Hasfjord [now Hasfjorden], Hasvik, Brandholmen [now Brannholmen]; [no habitat data]; 21.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in five open-topped wooden crates. Two crates are labelled *L. glaciale*, while the other three crates are labelled *L. glaciale* mixed with *Lithothamnion fornicatum* and *Phymatolithon investiens*. One collection of *L. glaciale* (**B11-2319**) in the main herbarium (Chapter 4) has identical locality and date data. In addition, one collection of *L. fornicatum* (**B23-2733**) in Drawer B23 and one collection of *Phymatolithon investiens* (**C28-3807**) in Drawer C28 in the main herbarium have identical locality and date data].

investiens, Phymatolithon

[Anon.]; [Norway]; Finmarken [now Finnmark], Galten; collection depth: 6-8 fathoms; 28.-30.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in three open-topped wooden crates. One collection (**C28-3804**) of *P. investiens* in the main herbarium (Chapter 4) has identical collection data with additional locality information (Galten, 'Makviggrunden?'). Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) but with modern locality name (Finnmark, Hasvik, Galten)].

Foslie; [Norway]; Finmarken, Skarsvaag [now Finnmark, Skarsvåg]; collection depth: 5 fathoms; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in two open-topped wooden crates. One collection (**C26-3780**) of *P. investiens* in the main herbarium (Chapter 4) has identical locality, collection depth and date data].

nodulosum, Lithothamnion

Foslie; [Norway]; [Trondheimsfjorden], Brækstad [now Brekstad]; [no habitat data]; 18.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Six collections (**C5-2999, C5-3000, C5-3001, C5-3002, C5-3003, C5-3004**), of *L. nodulosum*, including the lectotype, in the main herbarium (Chapter 4) have identical locality and date data].

Foslie; [Norway]; Trondheimsfjorden, Brækstad [now Brekstad]; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens

housed in four open-topped wooden crates. Four collections (**C5-3006**, **C5-3007**, **C5-3008**, **C5-3009**) of *L. nodulosum* in the main herbarium (Chapter 4) have identical locality and date data. Material with same name, collector and date occurs in *Lithothamnium Selecta Exsiccata* (see Chapter 6) but with modern locality name (Sør-Trøndelag, Ørland, Brekstad)].

***nodulosum*, *Lithothamnium* (f. *congregatum*)**

Foslie; [Norway]; [Trondheimsfjorden], Skjørn [now Stjørna]; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One collection (**C7-3062**) of f. *congregatum*, the lectotype, in the main herbarium (Chapter 4) has identical name, locality and date data. Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) but with modern locality name (Sør-Trøndelag, Stjørna)].

***nodulosum*, *Lithothamnium* (f. *gracilescens*)**

Foslie; [Norway]; [Trondheimsfjorden], Rotvold [now Rotvoll]; [collection depth: 4-5 fathoms]; 6.vi.1894 and 24.iii.1895; [no slides]; [no other collection data]; [no pfa]; [Note: collections from two dates housed in one open-topped wooden crate. Two collections (**C6-3037**, **C6-3038**), including the lectotype, of *L. nodulosum* f. *gracilescens* in the main herbarium (Chapter 4) dated 6.vi.1894 have identical locality and name data. Two additional collections (**C6-3039**, **C6-3040**) of *L. nodulosum* f. *gracilescens* in the main herbarium dated 6.vi.1894 (with the same collection depth data) and one (**C6-3041**) dated 24.iii.1895 (with the same collection depth data) have the locality listed as Rotvold, Fokskjær. Collection dated 6.vi.1894 also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6) but with modern locality name (Sør-Trøndelag, Strinda, Rotvoll)].

norvegicum*, *Lithothamnium

[Anon.]; [Norway]; Mandal, [Risø Bank, now Banken]; [no habitat data]; 15.vii.1904; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Three collections of *Lithophyllum norvegicum* in Drawer C3 in the main herbarium (Chapter 4) have identical date data and come from Mandal - one (**C3-2991**) from Risø Bank (3-4 fathoms) and two (**C3-2889**, **C3-2990**) from Mellem Risø Bank og Hatholm Skjøre (6 fathoms)].

Foslie; [Norway]; Trondheimsfjord, Røberg [now Raudberget]; [no habitat data]; 27.vi.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Two collections of *L. norvegicum* (**C3-2955**, **C3-2956**) in the main herbarium (Chapter 4) have identical locality and date data, and C3-2956 also is marked with a collection depth of ca 10 fathoms].

orbiculatum*, *Lithophyllum

Foslie; [Norway]; Trondheimsfjorden, Fløan; collection depth: 5-8 fathoms; 10.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate labelled *Lithothamnium orbiculatum* [the basionym of *Lithophyllum orbiculatum*]. Two collections (**A6-289**, **A6-290**) of *Lithophyllum orbiculatum* in the main herbarium (Chapter 4) have identical collector, locality and date data. Collection also represented in *Lithothamnium Selecta Exsiccata* (see Chapter 6)].

polymorphum, Phymatolithon

[Foslie]; [Norway]; [Lofoten], Balstad, Leiskjæret [now Ballstad, Leiskjeret]; collection depth: 3-5 fathoms; 10.ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One collection of *P. polymorphum* (**C23-3611**) in the main herbarium (Chapter 4) has identical depth and date data, and the locality is given as Lofoten, Balstad, Leiskjæret].

soriferum, Lithothamnion

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890 and 30.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collections from two dates housed in one open-topped wooden crate. Two collections of *L. soriferum*, (**C13-3194**, **C13-3195**) dated 15.viii.1894 in the main herbarium (Chapter 4) have identical locality and name data and one collection (**C13-3197**) dated 30.viii.1890 in the main herbarium has identical name data but more detailed locality data, namely Tromsø, Lanes].

tophiforme, Lithothamnion

Foslie; [Norway]; [Kvænangen], Skorpen [now Skorpa]; [no habitat data]; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Two collections of *L. tophiforme* (**C11-3158**, **C11-3159**) in the main herbarium (Chapter 4) have identical locality and date data].

ungeri, Lithothamnion

Foslie; [Norway]; Tromsø; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in two open-topped wooden crates. Three collections of *L. ungeri* (**B27-2792**, **B27-2793**, **B27-2794**) in Drawer B27 and seven collections of *L. ungeri* (**B28-2806**, **B28-2807**, **B28-2808**, **B28-2809**, **B28-2810**, **B28-2811**, **B28-2812**) in Drawer B28 in the main herbarium (Chapter 4) have identical locality and date data].

Foslie; [Norway]; Tromsø; [no habitat data]; 30.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. There are **no** main herbarium collections of *Lithothamnion ungeri* with the same locality and date data and no collections of any species with that date, but Drawer B27 (Chapter 4) contains a collection (**B27-2795**) of *L. ungeri* dated 30.viii.1897 from Tromsø, Lanes, and a collection of the same date occurs in the ancillary herbarium (see below). The *Lithothamnion Selecta Exsiccata* (see Chapter 6) contains a Tromsø collection dated 30.viii.1896, not otherwise represented in the main herbarium or the ancillary herbarium. It seems likely that dating errors have occurred, and that all of these collections were gathered on the same date (most likely 30.viii.1897)].

Foslie; [Norway]; Tromsø, [Lanes]; [no habitat data]; 30.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. One collection of *L. ungeri* (**B27-2795**) in the main herbarium (Chapter 4) has identical locality and date data. The *Lithothamnion Selecta Exsiccata* (see Chapter 6) contains a Tromsø collection dated 30.viii.1896, not otherwise represented in the main herbarium or the ancillary herbarium. The latter may be misdated].

vardoense Lithothamnion

Foslie; [Norway]; Lofoten, Balstad [now Ballstad], [Borgosen]; [no habitat data]; ix.1897; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Four collections of *L. vardoense* (**C8-3072**,

C8-3073, C8-3074, C8-3075) in the main herbarium (Chapter 4) have identical locality and date data]

[Anon.]; [Norway]; Vardø, dredged in the harbour; [no habitat data]; 1893; [no slides]; [no other collection data]; [no pfa]; [Note: collection consists of specimens housed in one open-topped wooden crate. Crate labelled as containing material of *Lithothamnion fornicatum* as well as *L. vardoense*. Three collections of *L. vardoense* (**C8-3082, C8-3083, C8-3084**) in the main herbarium (Chapter 4) have identical locality and date data. *Lithothamnia Selecta Exsiccata* (see Chapter 6) includes a collection with the same locality and date data, with Foslie listed as the collector. There are no collections of *Lithothamnion fornicatum* with the same locality and date data in the main herbarium].

6 Catalogue of collections in Lithothamnia Selecta Exsiccata

The exsiccata set *Lithothamnia Selecta Exsiccata* comprises 32 numbers prepared by Olav Gjærevoll, and according to Gjærevoll (personal communication, see Woelkerling 1993: 10), 25 sets were prepared.

Each collection in the set is housed in a covered box, and each box lid has a printed label with the name of the taxon, one or several references to Foslie publications containing descriptions or other information about the taxon, and data on collection locality, collection date and the collector. In a one-page printed announcement, Gjærevoll (1950) listed the species and forms in *Lithothamnia Selecta Exsiccata* and gave each collection a number from 1-32. The printed labels, however, were not numbered. Sets were made available in June 1950 for £2^{1/2}, excluding shipping costs. (Gjærevoll 1950). Basic information on the exsiccata is also provided by Sayre (1969: 74).

According to Gjærevoll (1950), the *Lithothamnia Selecta Exsiccata* was issued from "...an extremely beautiful duplicate collection of coralline algae..." left by Foslie. A comparative analysis of data from the Exsiccata with data from the main herbarium (Chapter 4) and the ancillary herbarium (Chapter 5) suggests that duplicate material from both sources was used in preparing the 25 sets. The ancillary herbarium contains duplicate material of 13 of the 32 taxa in *Lithothamnia Selecta Exsiccata*, while 30 of the 32 collections in the exsiccata also are unequivocally represented in the main herbarium.

The source of material for two exsiccata collections (*Lithothamnion glaciale* and *Lithothamnion ungeri*) is somewhat uncertain, however, possibly due to collection dating errors on the exsiccata la-

bels. Both come from Tromsø, and the exsiccata collection date for both is listed as 30.viii.1896. No original collections of any of these two taxa in the main herbarium or the ancillary herbarium, however, have that collection date.

During the present study, duplicate exsiccata samples in exsiccata boxes for both taxa have been added to the herbarium and numbered (B11-3838 for *Lithothamnion glaciale* and B27-3837 for *Lithothamnion ungeri*).

For *Lithothamnion glaciale*, the most likely analogue in the main herbarium is B11-2315, which is dated 3.viii.1886. This might be the source of the exsiccata material if the day (3) and year (1886) had been inadvertently mis-copied to 30 and 1896 for the exsiccata label. For *Lithothamnion ungeri*, the ancillary herbarium contains material dated 30.viii.1894 while the main herbarium contains a collection (B27-2795) dated 30.viii.1897. Either of these could have been the source of the exsiccata material if the year for the exsiccata label had been inadvertently mis-copied.

The exsiccata includes two collections from Australia (coll. A. Engelhart), one from France (coll. C. Flahault), two from Japan (coll. K. Yendo) two from the Republic of Ireland (coll. M. Foslie) and 25 from Norway (coll. M. Foslie).

The concepts of many species and genera have changed significantly since the time of Foslie. Consequently, all collections in the exsiccata set require re-examination to determine their status and disposition in a modern context. Any reassessment of material in *Lithothamnia Selecta Exsiccata* must be undertaken with caution. Various collections in Foslie's main coralline herbarium and in the ancillary herbarium are known to contain mixtures of several species, and similar mixtures of species cannot be ruled out in the exsiccata set. This means that different

boxes of a given collection in the set may not all contain the same species, and it also means that more than one species might occur in any particular box.

Entries in the Catalogue below are organized alphabetically by species listed on box labels, and within species, alphabetically by form name. Individual entries are formatted in the same way as those in the main herbarium. Links to collections in the main herbarium and collections in the ancillary material are given in the notes section for each taxon. Locality data are taken from the printed labels; such data sometimes differ slightly from that on the box in the main herbarium or in the ancillary material. Any differences are mentioned in the Notes section of individual

entries. Collectors' names also are taken from the printed labels. In several cases, collector information is lacking on the main herbarium analogue collection; this also has been mentioned in the Notes section of relevant exsiccata entries.

Lithothamnia Selecta Exsiccata is represented in **TRH** by two complete sets. One set constitutes the permanent reference set, and collections in this set are not available for loan. The second set is considered to be the working set, and collections in this set are available for loan. **TRH** collection numbers have not been assigned to collections in either set.

Lithothamnia Selecta Exsiccata

calcareum, *Lithothamnion* (f. *squarrulosa*)

Foslie; Republic of Ireland; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to two papers (Foslie 1900i, 1905c). Exsiccata label unnumbered but collection numbered 8 in Gjærevoll (1950) list. Drawer C1 in main herbarium contains three collections (**C1-2899**, **C1-2900**, **C1-2901**) of *Lithothamnion calcareum* f. *squarrulosa* with same collection data except that specific Roundstone Bay locality numbers are also indicated. Collection not represented in ancillary herbarium].

colliculosum, *Lithothamnion*

Foslie; Norway; Haugesund; [no habitat data]; 26.iii.1898; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 9 in Gjærevoll (1950) list. Drawer B20 in main herbarium contains two collections (**B20-2690**, **B20-2691**) of *Lithothamnion colliculosum* from same locality and date but without indicating that Foslie is collector. Collection not represented in ancillary herbarium].

compactum, *Phymatolithon* (f. *circumscripta*)

Foslie; Norway; Finmark, Måsøy, Hjelmsøy [now Finnmark, Måsøy, Hjelmsøya]; [no habitat data]; 17.vii.1901; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to two papers (Foslie 1905c, as *Phymatolithon*, 1908d, as *Clathromorphum*). Exsiccata label unnumbered but collection numbered 30 in Gjærevoll (1950) list. Main herbarium does **not** contain a collection of any taxon dated 17.vii.1901. Drawer C22 in main herbarium, however, contains two Foslie collections (**C22-3542**, **C22-3543**) dated 17.vii.1897 and labelled *Clathromorphum circumscriptum* from Finmarken [now Finnmark], Russesund, Hjelmsø [now Hjelmsøya]. Collection not represented in ancillary herbarium].

dentatum, Lithophyllum

Foslie; Republic of Ireland; Roundstone; [no habitat data]; 17.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1900a). Exsiccata label unnumbered but collection numbered 1 in Gjærevoll (1950) list. Drawer C24 in main herbarium contains one collection (**A24-1414**) of *L. dentatum* with same collection data except that date is 15-17.iv.1899. Collection not represented in ancillary herbarium].

fasciculatum, Lithophyllum (f. divergens) [the epithet *divergens* is a superfluous substitute name for *divaricata*. Additional data — Woelkerling 1993: 78, 79].

Foslie; Republic of Ireland; Roundstone; [no habitat data]; 15.iv.1899; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to protologue (Foslie 1900a, as *Lithophyllum fasciculatum* f. *divaricata*) and to a later account (Foslie 1909b, using superfluous name *Lithophyllum fasciculatum* f. *divergens*). Exsiccata label unnumbered but collection numbered 2 in Gjærevoll (1950) list. Drawer A23 in main herbarium contains one collection (**A23-1394**) with same collector, locality and date, and labelled *Lithophyllum fasciculatum* f. *divergens* (a superfluous name for *Lithophyllum fasciculatum* f. *divaricatum*). A23-1394 is holotype of *Lithophyllum fasciculatum* f. *divaricatum*, suggesting that specimens in *Lithothamnion Selecta Exsiccata* are isotypes. Collection not represented in ancillary herbarium].

fornicatum, Lithothamnion

Foslie; Norway; Troms, Mestervik, Melangen [now Malangen]; [no habitat data]; 20.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 10 in Gjærevoll (1950) list. Drawer B21 in main herbarium contains five collections (**B21-2710, B21-2711, B21-2712 (lectotype), B21-2713, B21-2714**) of *Lithothamnion colliculosum* from same locality and date but without mentioning Troms. Foslie presumed to be collector of all five although listed only on two. Material also represented in ancillary herbarium (Chapter 5)].

fornicatum, Lithothamnion (f. dimorphum)

Foslie; Norway; Sør-Trøndelag, Ørland, Korsholmen; [no habitat data]; 7.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to protologue (Foslie 1895a, as *Lithothamnion dimorphum*) and to a later account (Foslie 1905c, where species was reduced to *Lithothamnion fornicatum* f. *dimorpha*). Exsiccata label unnumbered but collection numbered 11 in Gjærevoll (1950) list. Drawer B25 in main herbarium contains one collection (**B25-2753**) of *Lithothamnion fornicatum* with same date but from a different locality Bejan, Korsholmene [now Beian, Korsholmen] and without reference to f. *dimorpha*. Ancillary herbarium (Chapter 5) contains one crate of Foslie specimens with same date and locality (but using old name of Bejan, Korsholmene) and labelled *L. fornicatum* f. *dimorpha*].

Foslie; Norway; Sør-Trøndelag, Ørland, Garten; [no habitat data]; 7.vii.1894; [no slides]; box label marked 'fossil'; [no pfa]; [Note: exsiccata box label does **not** include reference to a Foslie publication, but comments on this material occur in Foslie (1895a: 187) suggesting there that it belongs to *L. fruticosum*. Exsiccata label unnumbered but collection numbered 12 in Gjærevoll (1950) list. Drawer B25 in main herbarium contains one collection (**B25-2763**) of *Lithothamnion fornicatum* with same date but with a variant of locality name Garten ved [= near] Bejan [now Beian] and without reference to f. *dimorpha* or to Foslie as collector. Ancillary herbarium (Chapter 5) contains one crate of Foslie specimens with same date and locality (but using local-

ity name of Bejan, Garten) and labelled *L. fornicatum* without reference to f. *dimorpha*].

fornicatum, Lithothamnion (f. obrateriformis (= f. fornicatum)) [Note: the epithet f. *obrateriformis* is superfluous for f. *fornicatum* (Woelkerling 1993: 160)].

Foslie; Norway; Sør-Trøndelag, Stjørna; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to two papers (Foslie 1895a, 1905c). Exsiccata label unnumbered but collection numbered 14 in Gjærevoll (1950) list. Main herbarium contains three collections (**B24-2748, B24-2749, B24-2750**) of *Lithothamnion fornicatum* in Drawer B24 and one collection (**B26-2783**) in Drawer B26 with same date and from same locality (using old locality name Skjørn) but without explicit mention of f. *obrateriformis* and without listing Foslie as collector. Ancillary herbarium (Chapter 5) has five crates of material with same date from same locality (using old locality name Skjørn) identified as *Lithothamnion fornicatum* f. *obrateriformis* but without mention of Foslie as collector].

fornicatum, Lithothamnion (f. obrateriformis (= f. fornicatum) & f. subsphaerica)

Foslie; Norway; Sør-Trøndelag, Stjørna; [no habitat data]; ix.1896; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c) and indicates that collections consists of a mixture of f. *subsphaerica* (= *subsphaerica*) and f. *obrateriformis* (a superfluous substitute name for f. *fornicatum* (Woelkerling 1993: 160). Exsiccata label unnumbered but collection numbered 13 in Gjærevoll (1950) list. Main herbarium contains three collections (**B24-2748, B24-2749, B24-2750**) of *Lithothamnion fornicatum* in Drawer B24 and one collection (**B26-2783**) in Drawer B26 with same date and from same locality (using old locality name Skjørn) but without mention of f. *subsphaerica* or f. *obrateriformis* and without listing Foslie as collector. Ancillary herbarium (Chapter 5) has five crates of material with same date from same locality (using old locality name Skjørn) identified as *Lithothamnion fornicatum* f. *obrateriformis* but without mention of f. *subsphaerica*) or mention of Foslie as collector].

fornicatum, Lithothamnion (f. tuberculata) [Note: the epithet *tuberculata* is a superfluous substitute name for f. *grandifrons* – see Woelkerling 1993: 227].

Foslie; Norway; Nordland, Herøy; [no habitat data]; 28.viii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 15 in Gjærevoll (1950) list. Main herbarium does **not** contain any collections with matching data, but Drawer B23 contains two collections (**B23-2746, B23-2747**) filed under f. *grandifrons* from Herø dated 20.viii.1894 and one collection (**B23-2744**) from Herø dated 28.viii.1894 but filed under *L. fornicatum* without mention of f. *tuberculata* or f. *grandifrons*. Ancillary herbarium (Chapter 5) contains one collection labelled *L. fornicatum* f. *tuberculata* (but listed under *Lithothamnion fornicatum* f. *grandifrons*) with same date but with old locality name of Herø and without mention of Foslie as collector. **B23-2744** is linked to one crate in ancillary herbarium (Chapter 5) labelled *Lithothamnion dehiscens*].

glaciale, Lithothamnion

Foslie; Norway; Tromsø; [no habitat data]; 30.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 16 in Gjærevoll (1950) list. Name on exsiccata label listed as '*Lithothamnion glaciale* Kjellm. f. *typica* Fosl.'. Main herbarium contains a duplicate (B27-3837) of this exsiccata specimen. Drawer

B11 also contains three Foslie collections (**B11-2314**, **B11-2315**, **B11-2316**) of *Lithothamnion glaciale* from Tromsø but these are dated vi.1892 (B11-2314), 3.viii.1886 (B11-2315) and 15.viii.1890 (B11-2316). Collection not represented in ancillary herbarium].

***glaciale*, *Lithothamnion* (f. *subfastigiata*)**

Foslie; [Norway]; Bækkarfjord [now Bekkarfjord], Alta; [no habitat data]; 21.viii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 17 in Gjærevoll (1950) list. Drawer B10 in main herbarium contains four collections (**B10-2305**, **B10-2306**, **B10-2307**, **B10-2308**) of *Lithothamnion glaciale* f. *subfastigiata* with same collector, date and locality (using old locality name Alten). Collection not represented in ancillary herbarium].

granii*, *Lithothamnion [first described as *Lithothamnion flabellatum* f. *granii* (Foslie 1895a: 98) but subsequently (Foslie 1900i: 11) considered an independent species].

Foslie; [Norway]; Drøbak; [no habitat data]; 10.viii.1902; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to two papers: Foslie 1895a (as *Lithothamnion flabellatum* f. *granii*) and Foslie 1905c (as *Lithothamnion granii*). Exsiccata label unnumbered but collection numbered 19 (should be 18) in Gjærevoll (1950) list. Name on exsiccata label listed as '*Lithothamnion glaciale* Fosl. f. *typica* Fosl.' Drawer C10 in main herbarium contains three collections (**C10-3105**, **C10-3106**, **C10-3107**) of *Lithothamnion granii* with same collection data. Collection not represented in ancillary herbarium].

***incrustans*, *Lithophyllum* (f. *angulata*)**

Flahault; France; Banyuls-sur-Mer; [no habitat data]; [no date]; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to paper with protologue (Foslie 1899c) and to a later account (Foslie 1900a). Exsiccata label unnumbered but collection numbered 3 in Gjærevoll (1950) list. Drawer A8 in main herbarium contains one Flahault collection (**A8-424**) of *L. incrustans* f. *angulata* (**lectotype**) from Banyuls-sur-Mer but also with mention of Roussillon. Collection not represented in ancillary herbarium].

investiens*, *Phymatolithon

Foslie; Norway; Finnmark, Hasvik, Galten; [no habitat data]; 28.-30.vi.1897; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 31 in Gjærevoll (1950) list. Drawer C28 in main herbarium contains one collection (**C28-3804**) from same locality (using old name Finmarken, Galten) and with same dates (28-30.vi.1897). In addition, one collection of *P. investiens* in Drawer C26 (**C26-3783**) and two in Drawer C28 (**C28-3802**, **C28-3803**) in main herbarium have identical locality data and a collection date of 28.vi.1897. Collection also represented in ancillary herbarium (Chapter 5)].

***muelleri*, *Lithothamnion* (f. *cingens*)** [*Lithothamnion muelleri* f. *cingens* is a superfluous substitute name for *Lithothamnion muelleri* f. *muelleri*. Additional data — Woelkerling 1993: 51].

Engelhart; [Australia]; South Australia, Kingston, Cape Jaffa; [no habitat data]; 1899; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to one paper (Foslie 1900a). Exsiccata label unnumbered but collection numbered 19 in Gjærevoll (1950) list. Drawer B17 in main herbarium contains one dupli-

cate box (**B17-2557**) of *Lithothamnium Selecta Exsiccata* (placed in Foslie herbarium at least 41 years after his death) and five 1899 Englehart collections (**B17-2555**, **B17-2556**, **B17-2558**, **B17-2559**, **B17-2560**,) from Cape Jaffa but in most cases without mention of Kingston or of f. *cingens*. Collection not represented in ancillary herbarium].

nodulosum*, *Lithothamnium

Foslie; Norway; Sør-Trøndelag, Ørland, Brekstad; [no habitat data]; ix.1896; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to protologue (Foslie 1895a) and to one other paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 20 in Gjærevoll (1950) list. Name on exsiccata label listed as '*Lithothamnium nodulosum* Fosl. f. *typica* Fosl.' Drawer C5 in main herbarium contains four collections (**C5-3006**, **C5-3007**, **C5-3008**, **C5-3009**) of *Lithophyllum nodulosum* with same collection data but with old locality name (Trondheimsfjorden, Brækstad). Collection also represented in ancillary herbarium (Chapter 5) but with old locality name].

***nodulosum*, *Lithothamnium* (f. *congregatum*)** [first described as *Lithothamnium congregatum* (Foslie 1895a: 142) but later (Foslie 1900i: 13 and 1905c: 62) reduced to *L. nodulosum* f. *congregatum*].

Foslie; Norway; Sør-Trøndelag, Stjørna; [no habitat data]; 20.vii.1894; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to protologue (Foslie 1895a, as *Lithothamnium congregatum*) and to one other paper (Foslie 1905c, as *Lithothamnium nodulosum* f. *congregata*). Exsiccata label unnumbered but collection numbered 23 in Gjærevoll (1950) list. Drawer C7 in main herbarium contains one collection (**C7-3062**) of *Lithothamnium nodulosum* f. *congregata*, the **lectotype**, dated 20.vii.1894 but with old name for locality (Trondheimsfjorden, Skjørn). Collection also represented in ancillary herbarium (Chapter 5)].

***nodulosum*, *Lithothamnium* (f. *gracilescens*)** [first described as *Lithothamnium gracilescens* (Foslie 1895a: 87) but later (Foslie 1900i: 13 and 1905c: 62) reduced to *L. nodulosum* f. *gracilescens*].

Foslie; Norway; Sør-Trøndelag, Strinda, Rotvoll; [no habitat data]; 6.vi.1894; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to protologue (Foslie 1895a, as *Lithothamnium gracilescens*) and to one other paper (Foslie 1905c, as *Lithothamnium nodulosum* f. *gracilescens*). Exsiccata label unnumbered but collection numbered 21 in Gjærevoll (1950) list. Drawer C6 in main herbarium contains two collections (**C6-3037**, **C6-3038**) of *Lithothamnium nodulosum* f. *gracilescens*, including **lectotype**, dated 6.vi.1894 but with old name for locality (Trondheimsfjorden, Rotvold) and two further collections (**C6-3039**, **C6-3040**) with same date but from Trondheimsfjorden, Rotvold, Fokskjær and collected at a depth of 4-5 fathoms. Collection also represented in ancillary herbarium (Chapter 5)].

***nodulosum*, *Lithothamnium* (f. *saxatilis*)**

Foslie; Norway; Nord-Trøndelag, Taustra; [no habitat data]; 15.vi.1894; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to protologue (Foslie 1895a). Exsiccata label unnumbered but collection numbered 22 in Gjærevoll (1950) list. Drawer C6 in main herbarium contains two collections (**C6-3044** (**lectotype**), **C6-3045**) of *Lithothamnium nodulosum* f. *saxatilis* with same collection data but with old name for locality (Trondheimsfjorden, Taustra). Collection not represented in ancillary herbarium].

norvegicum, *Lithothamnion* (f. *pusilla*) [*Lithothamnion norvegicum* f. *pusilla* is a superfluous substitute name for *Lithothamnion norvegicum* f. *norvegicum* - see Woelkerling 1993: 185].

Foslie; Norway; Haugesund; [no habitat data]; 1897; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to three papers (Foslie 1895a, 1900i, 1905c). Exsiccata label unnumbered but collection numbered 24 in Gjærevoll (1950) list. Drawer C3 in main herbarium contains one collection (**C3-2948**) of *Lithothamnion norvegicum* dated 17.v.1897 from Haugesund, Viprandsund [= Viprandsund, the strait between Vibrandøya and Hasseløya] but without mention of f. *pusilla* (a superfluous substitute name for type form of species (see Woelkerling 1993: 185)). Collection not represented in ancillary herbarium].

okamurai, *Lithophyllum*

Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to three papers (Foslie 1901f, 1904b, 1909b). Exsiccata label unnumbered but collection numbered 4 in Gjærevoll (1950) list. Drawer A21 in main herbarium contains three collections (**A21-1315, A21-1316, A21-1317**) of *Lithophyllum okamurai* with same collecting data. Collection not represented in ancillary herbarium].

orbiculatum, *Lithophyllum*

Foslie; Norway; Trondeimsfjorden, Fløan; [no habitat data]; 10.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to two papers (Foslie 1900i, 1905c). Exsiccata label unnumbered but collection numbered 5 in Gjærevoll (1950) list. Drawer A6 in main herbarium contains two collections (**A6-289, A6-290**) of *Lithophyllum orbiculatum* with same collecting data. Collection also represented in ancillary herbarium (Chapter 5)].

polymorphum, *Phymatolithon* (f. *intermedia*)

Foslie; Norway; Finnmark, Kjelvik, Skarsvåg; [no habitat data]; 19.vii.1897; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to paper containing protologue (Foslie 1908d). Exsiccata label unnumbered but collection numbered 32 in Gjærevoll (1950) list. Drawer C23 in main herbarium contains three collections (**C23-3644, C23-3645, C23-3546**) of *Phymatolithon polymorphum* f. *intermedia* with same collector and date from Skarsvaag [now Skarsvåg] but without mention of Finnmark or Kjelvik. Collection not represented in ancillary herbarium].

soriferum, *Lithothamnion* (f. *globosa*) [first described as *L. soriferum* f. *globosa* (Foslie 1891: 41), then (Foslie 1895a: 147) changed to *L. tophiforme* f. *globosa*, and then (Foslie 1905c: 49) changed back to *L. soriferum* f. *globosa*].

Foslie; Norway; Finnmark, Kistrand; [no habitat data]; 11.viii.1891; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to paper containing protologue (Foslie 1891) and to two other papers (Foslie 1895a, as *L. tophiforme* f. *globosa*, and 1905c, as *L. soriferum* f. *globosa*). Exsiccata label unnumbered but collection numbered 25 in Gjærevoll (1950) list. Drawer C11 in main herbarium contains one collection (**C11-3143**) of *Lithothamnion soriferum* f. *globosa* with same collector, name, locality and date. Collection not represented in ancillary herbarium].

soriferum, *Lithothamnion* (f. *squarrosa*)

Foslie; Norway; Tromsø, Grindøy [now Grindøya]; [no habitat data]; 15.viii.1890; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes refer-

ence to paper containing protologue (Foslie 1895a) and to one other paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 26 in Gjærevoll (1950) list. Drawer C13 in main herbarium contains two collections (**C13-3206**, **C13-3207**) of *Lithothamnion soriferum* f. *squarrosa* with same name, collector, and date (including **lectotype**), but locality is given as Tromsø without mention of Grindøy. Collection not represented in ancillary herbarium].

tophiforme, Lithothamnion (f. divergens) [first described as *Lithothamnion divergens* Foslie (1895a: 96) but later (Foslie 1905c: 51) reduced to *L. tophiforme* f. *divergens*].

Foslie; Norway; Troms, Kvænangen, Skorpa; [no habitat data]; 8.ix.1890; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 27 in Gjærevoll (1950) list. Drawer C11 in main herbarium contains one collection (**C11-3167**), the **holotype** of *Lithothamnion tophiforme* f. *divergens*, with same collector, name and date but with old name for locality (Kvænangen, Skorpen). Collection not represented in ancillary herbarium].

ungeri, Lithothamnion

Foslie; Norway; Tromsø; [no habitat data]; 30.viii.1896; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to three papers (Foslie 1895a, 1900i, 1905c). Exsiccata label unnumbered but collection numbered 28 in Gjærevoll (1950) list. Main herbarium contains a duplicate (**B27-3837**) of this exsiccata specimen. Drawer B27 also contains one Foslie collection of *Lithothamnion ungeri* from Tromsø, Lanes dated 30.viii.1897 (**B27-2795**). Ancillary herbarium (Chapter 5) contains additional material of 30.viii.1897 collection and another Foslie collection of *Lithothamnion ungeri* from Tromsø dated 30.viii.1894].

vardoense, Lithothamnion

Foslie; Norway; Vardø; [no habitat data]; 1893; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes references to one paper (Foslie 1905c). Exsiccata label unnumbered but collection numbered 29 in Gjærevoll (1950) list. Foslie is incorrectly listed as the collector on the exsiccata label (see Foslie 1905b, in which no collector is mentioned). Drawer C8 in main herbarium contains three 1893 collections (**C8-3082**, **C8-3083**, **C8-3084**) of *Lithothamnion vardoense* from Vardø (dredged in the harbour) but without mention of Foslie as collector. Collection also represented in ancillary herbarium (Chapter 5)].

verrucosum, Lithophyllum

Engelhart; [Australia]; South Australia, Cape Jaffa; [no habitat data]; 1900; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to paper containing protologue (Foslie 1900a, as *Goniolithon verrucosum*) and to two other papers (Foslie 1901a, 1909b). Exsiccata label unnumbered but collection numbered 5 in Gjærevoll (1950) list. Drawer A3 in main herbarium contains six collections (**A3-162**, **A3-163**, **A3-164**, **A3-165**, **A3-166**, **A3-167**,) of *Lithophyllum verrucosum* with same collector and locality (and with mention of nearby town of Kingston), and with a communication date of 1900. Collection not represented in ancillary herbarium].

yendo, Lithophyllum

Yendo; Japan; Misaki; [no habitat data]; iv.1903; [no slides]; [no other collection data]; [no pfa]; [Note: exsiccata box label includes reference to paper containing protologue (Foslie 1900a, as *Goniolithon yendo*) and to two other papers (Foslie 1901b,

1904b). Exsiccata label unnumbered but collection numbered 7 in Gjærevoll (1950) list. Drawer A1 in main herbarium contains six collections (**A1-55, A1-56, A1-57, A1-58, A1-59, A1-60,**) of *Lithophyllum yendoi* with same collector, date and locality. Collection not represented in ancillary herbarium].

7 References

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- Woelkerling, W.J., Furnari, G. & Cormaci, M. 2002. *Leptophytum* (Corallinaceae, Rhodophyta): To be or not to be? That is the question, but what is the answer? - Australian Systematic Botany 15: 597-618. Effective publication date: 31.x.2002 (stated on first page of article).
- Woelkerling, W.J. & Harvey, A. 1992. *Mesophyllum incisum* (Corallinaceae, Rhodophyta) in southern Australia: implications for generic and specific delimitation in the Melobesioideae. - British Phycological Journal 27: 381-399.
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- Zanardini, G. 1843. *Saggio di Classificazione Naturelle delle Ficee*. - G. Tasso: Venice. 64 pp., 1 pl. Effective publication date: March 1843 (Stafleu & Cowan 1987: 517).
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- Zenkevitch, L. 1963. *Biology of the Seas of the U.S.S.R.* - George Allen and Unwin: London. 955 pp.

Appendix 1 Publications of M.H. Foslie

A list of known Foslie publications is below. Information on independently paginated offprints, where known, is included under relevant entries. From 1893 to 1909, Foslie also produced annual reports entitled 'Den botaniske samling' in Det Kongelige Norske Videnskabers Selskabs Aarsberetning. Most contain information pertinent to corallines.

This list may not be exhaustive; issues of the Tromsø Museums Aarsberetning from 1885 through 1892 need to be checked for any further reports of Foslie who worked at the Tromsø Museum until the end of 1891.

Effective publication dates with sources have been added for publications for which these are known. For some publications, new evidence (Woelkerling & Lamy 1998) has resulted in more precise dating than that reported earlier by Woelkerling (1993).

Foslie's publications

- Foslie, M. 1881. Om nogle nye arctiske havalger. - Christiania Videnskabers Selskabs Forhandling 1881-14: 1-14, 2 pl. Note: journal issue dated 1881 but possibly published in 1882 because some of the collecting was completed only during the summer of 1881 (see p. 1).
- Foslie, M. 1883. Bidrag til kundskaben om de til gruppen *Digitatae* hørende Laminarier. - Christiania Videnskabers Selskabs Forhandling 1883-2: 1-32. Publication data: 'Forelagt I Mødet 2 den Februar 1883' (displayed at the meeting of 2.ii.1883). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1884. Ueber die Laminarien Norwegens. - Christiania Videnskabers Selskabs Forhandling 1884-14: 1-112, 10 pl. Note: journal issue dated 1884 but possibly published in 1885 because first page of article includes statement 'Fremlagt i det almindelige møde den 12te December 1884' (displayed at the ordinary meeting of the 12 December 1884).
- Foslie, M. 1886. Kritisk fortegnelse over norges havslager efter ældre botaniske arbejder indtil aar 1850. - Tromsø Museums Aarshefter 9: 85-137.
- Foslie, M. 1887a. Nye havsalger. - Tromsø Museums Aarshefter B, 10: 175-195, pl. 1-3.
- Foslie, M. 1887b. Havsalgernes praktiske anvendelse. - Tromsø Museums Aarsberetning 1886: 17-36. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1890a. Contribution to knowledge of the marine algae of Norway. I. East-Finmarken. - Tromsø Museums Aarshefter B, 13: 1-183, pl. 1-3. Effective publication date: October 1890 (Woelkerling & Lamy 1998: 673).
- Foslie, M. 1890b. Toldkasserer Karl Pettersen. En biografisk skitse med portræt. - Tromsø Museums Aarshefter B, 13: I-XII. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1891a. Contribution to knowledge of the marine algae of Norway. II. Species from different tracts. - Tromsø Museums Aarshefter B, 14: 36-58, pl. 1-3. Note: also issued as an independently paginated offprint (cover, title page, pp. 1-23, pl. 1-3). Effective publication date: 31.iii.1891 (Woelkerling & Lamy 1998: 674).
- Foslie M. 1891b. Remarks on forms of *Ectocarpus* and *Pylaiella*. - Tromsø Museums Aarshefter B, 14: 123-128. Also issued as an offprint with the same pagination

- and with covers. Note: the date 12.x.1891 occurs at the end of the article on p. 128 but it is unclear whether this is the printing date or submission date.
- Foslie, M. 1891c. *Istmoplea rupincola*, a new alga. - Tromsø Museums Aarshefter B, 14: 129-131. Note: the date 14.xi.1891 occurs at the end of the article on p. 131 but it is unclear whether this is the printing date or submission date.
- Foslie, M. 1892a. Alger og muslinger. - Naturen 16: 17-21.
- Foslie, M. 1892b. Algological notices. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1892: 263-266. Note: also issued as an independently paginated offprint (cover/title page, pp. 1-4). Effective publication date of offprint: after 21.x.1892 (date stated on p. 4 of independently paginated offprint and taken here as the submission date). Cover of offprint also dated 1892. Portion of journal containing article printed 30.i.1893 and journal title page dated 1893.
- Foslie, M. 1892c. List of the marine algae of the Isle of Wight. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1892: 267-282. Note: also issued as an independently paginated offprint (cover/title page, pp. 1-16). Effective publication date of offprint: after 7.x.1892 (date stated on p. 2 of independently paginated offprint and on p. 268 of journal version and taken here as the submission date). Cover of offprint dated 1892. Portion of journal containing article printed 30.i.1893 and journal title page dated 1893 (Woelkerling 1993: 277).
- Foslie, M. 1893a. Den botaniske afdelings. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1892: IX-X. Effective publication date: 29.ix.1893 (Woelkerling 1993: 277). Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1892 was bound with Det Kongelige Norske Videnskabers Selskabs Skrifter 1892 but also was issued as a separate publication with its own cover.
- Foslie, M. 1893b. Ueber eine neue *Laminaria* (*Laminaria schinzii*) aus Westafrika. - Bulletin de l'Herbier Boissier, Genève 1: 91-94, 1 pl. Effective publication date: April 1893 (date on first page of journal issue).
- Foslie, M. 1893c. The Norwegian forms of *Ceramium*. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1893: 1-21, 3 pl. Effective publication date: 30.ix.1893 (date on invoice from printer for 100 offprints with covers; see Woelkerling 1993: 10-11 for information on these invoices). The date at the bottom of p. 1 of the article (27.iv.1893) is presumed to be the submission date.
- Foslie, M. 1894a. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1893: VIII-IX. Effective publication date: 18.v.1894 (Woelkerling 1993: 277). Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1893 was bound with Det Kongelige Norske Videnskabers Selskabs Skrifter 1893 but also was issued as a separate publication with its own cover.
- Foslie, M. 1894b. New or critical Norwegian algae. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1893: 114-144, pl. 1-3. Effective publication date: 30.iv.1894 (Woelkerling 1993: 277). Also issued as an independently paginated offprint (cover/title page, pp. 1-31, pls 1-3).
- Foslie, M. 1895a. The Norwegian forms of *Lithothamnion*. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1894: 29-208, pl. 1-23. Effective publication date: 5.xii.1895 (Woelkerling 1993: 277). Also issued as an independently paginated offprint (cover, title page, pp. 1-180, pl. 1-23).
- Foslie, M. 1895b. New or critical lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1895: 1-10, 1 pl. Also issued as an offprint with the same pagination and with covers. Effective publication date of offprint: 15 or 19.xii.1895 (Woelkerling & Lamy 1998: 674). Cover of offprint dated 1895. Journal version of

- paper appeared between 1.ii.1896 and 30.vi.1896 (Woelkerling 1993: 277, Woelkerling & Lamy 1998: 674).
- Foslie, M. 1896a. The reproductive organs in *Turnerella septentrionalis*. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1896 (2-3): 1-6. Effective publication date: 30.viii.1896 (date on invoice from printer for 100 offprints; see Woelkerling 1993: 10-11 for information on these invoices). The date April 1896, taken here as the submission date, appears on p. 6. Issued with Foslie 1896b as a single offprint with a title page but no covers.
- Foslie, M. 1896b. *Ectocarpus (Streblonema) turnerellae*, a new alga. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1896 -2/3: 7-8. Effective publication date: 30.viii.1896 (date on invoice from printer for 100 offprints; see Woelkerling 1993: 10-11 for information on these invoices). The date April 1896, taken here as the submission date, appears on p. 8. Issued with Foslie 1896a as a single offprint.
- Foslie, M. 1896c. Remark on *Haematostagon balanicola* Strömf. - Nuova Notarisia 7: 84-85. Note: last page of article dated April 1896 (probably the date of submission).
- Foslie, M. 1896d. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1895: XIV-XV. (Note: the Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1895 was bound with Det Kongelige Norske Videnskabers Selskabs Skrifter 1895 but also was issued as a separate publication with its own cover.) Effective publication date: between June (date directors approved report as listed on p. V and 14.xii.1896 date on invoice for printing of the Aarsberetning; see Woelkerling 1993: 10-11 for information on these invoices).
- Foslie, M. 1897a. Einige Bemerkungen über Melobesieae. - Berichte der Deutschen Botanischen Gesellschaft 15: 252-260. Effective publication date: 26.v.1897 (Woelkerling & Lamy 1998: 674). Submission date (24.iv.1897) indicated on p. 252. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1897b. On some Lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1897-1: 1-20. Effective publication date: between 1.vii.1897 and 31.xii.1897 (Woelkerling 1993: 278).
- Foslie, M. 1897c. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1896: XXIII. (Note: the Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1896 was bound with Det Kongelige Norske Videnskabers Selskabs Skrifter 1896 but also was issued as a separate publication with its own cover.) Effective publication date: 26.viii.1897 (date on invoice from Julius Maske for 560 copies with covers; see Woelkerling 1993: 10-11 for information on these invoices).
- Foslie, M. 1898a. Systematical survey of the lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1898-2: 1-7. Effective publication date: 14.x.1898 (Woelkerling 1993: 278, Woelkerling & Lamy 1998: 674). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1898b. List of species of the lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1898 -3: 1-11. Effective publication date: 24.xii.1898 (Woelkerling 1993: 278, Woelkerling & Lamy 1998: 674).
- Foslie, M. 1898c. Weiteres über Melobesieae. - Berichte der Deutschen Botanischen Gesellschaft 15: 521-526. Effective publication date: 25.i.1898 (Woelkerling & Lamy 1998: 675). Submission date (25.xii.1897) indicated on p. 521. Also issued as an offprint with the same pagination and with covers. Offprint cover page and journal volume dated 1897

- Foslie, M. 1898d. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1897:35. Effective publication date: 13.vi.1898 (date on invoice for printing of the Aarsberetning for 1897; see Woelkerling 1993: 10-11 for information on these invoices).
- Foslie, M. 1899a. A visit to Roundstone in April. - The Irish Naturalist 8: 175-180. Effective publication date: August 1899 (stated in running head of article). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1899b. Notes on two lithothamnia from Funafuti. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1899-2: 1-5. Effective publication date: 19.xii.1899 (Woelkerling & Lamy 1998: 675). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1899c. Some new or critical lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1898-6: 1-19. Effective publication date: 5.i.1899 (Woelkerling 1993: 278). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1899d. Remarks on the nomenclature of the lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1898-9: 1-7. Effective publication date: 7.i.1899 (Woelkerling 1993: 278).
- Foslie, M. 1899e. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1898:24. Effective publication date: 12.viii.1899 (date on invoice for covers for the *Aarsberetning*; see Woelkerling 1993: 10-11 for information on these invoices).
- Foslie, M. 1900a. New or critical calcareous algae. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1899-5: 1-34. Effective publication date: between 1.i.1900 and 25.vi.1900 (Woelkerling 1993: 278). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900b. Remarks on Melobesieae in Herbarium Crouan. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1899-7: 1-16. Effective publication date: between 1.i.1900 and 25.vi.1900 (Woelkerling 1993: 279). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900c. Die systematik der Melobesieae. (Eine Berichtigung). - Berichte der Deutschen Botanischen Gesellschaft 18: 239-241. Effective publication date: 24.vii.1900 (Woelkerling & Lamy 1998: 675). Submission date (11.vi.1900) appears on p. 239. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900d. Bemerkungen zu F. Heydrich's Arbeit 'Die Lithothamnien von Helgoland'. - Berichte der Deutschen Botanischen Gesellschaft 18: 339-340. Effective publication date: 24.xi.1900 (Woelkerling & Lamy 1998: 675). Submission date (9.x.1900) appears on p. 339. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900e. *Melobesia caspica*, a new alga. - Öfversigt af Kongelige Vetenskaps-Akademiens Förhandlingar 1899-9: 131-133. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900f. Calcareous algae from Fuegia. - Kungl. Boktryckeriet, P.A. Nordstedt & Söner, Stockholm. pp. 65-75. Note: subsequently (1905) issued with the same pagination as part of *Wissenschaftliche Ergebnisse der Schwedischen Expedition nach den Magellansländern 1895-1897. III: Botanik*, edited by O. Nordenskjöld, and published by P.A. Nordstedt & Söner, Stockholm. Running head reads 'Svenska Expeditionen till Magellansländerna BD III. No. 4'.

- Foslie, M. 1900g. Calcareous algae from Funafuti. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1900-1: 1-12. Effective publication date: between 26.vi.1900 and 31.xii.1900 (Woelkerling 1993: 279). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900h. Five new calcareous algae. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1900-3: 1-6. Effective publication date: between 26.vi.1900 and 31.xii.1900 (Woelkerling 1993: 279). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900i. Revised systematical survey of the Melobesieae. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1900-5: 1-22. Effective publication date: between 26.vi.1900 and 31.xii.1900 (Woelkerling 1993: 279). Presumed submission date (May 1900) appears on p. 7. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1900j. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1899:26-27. Effective publication date: 29.vi.1900 (date on invoice for printing of the Aarsberetning for 1899; see Woelkerling 1993: 10-11 for information on these invoices).
- Foslie, M. 1901a. New melobesieae. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1900-6: 1-24. Effective publication date: 18.ii.1901 (Woelkerling & Lamy 1998: 675). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1901b. Corallinaceae. - Botanisk Tidsskrift 24: 15-22. Note: part of Schmidt J., Flora of Koh Chang. Contributions to the knowledge of the vegetation in the Gulf of Siam. Also issued as an offprint with the same pagination and with covers. Effective publication date: May 1901 (Stafleu & Cowan 1985: 253).
- Foslie, M. 1901c. Three new lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1901-1: 1-5. Also issued as an offprint with the same pagination and with covers. Effective publication date: 10.vii.1901 for offprint but 27.vii – 31.xii.1901 for journal version (Woelkerling & Lamy 1998: 676).
- Foslie, M. 1901d. Bieten die Heydrich'schen Melobesian-arbeiten eine sichere Grundlage? - Det Kongelige Norske Videnskabers Selskabs Skrifter 1901-2: 1-28. Effective publication date: 3.xii.1901 (Woelkerling & Lamy 1998: 676). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1901e. New forms of lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1901-3: 1-6. Effective publication date: between 27.vii.1901 and 31.xii.1901 (Woelkerling 1993: 280). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1901f. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1900: 18. Effective publication date: 24.vi.1901 (Woelkerling 1993: 280).
- Foslie, M. 1902a. New species or forms of melobesieae. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1902-2: 1-11. Effective publication date: between 11.ix – 20.xi.1902 (Woelkerling 1993: 280). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1902b. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1901: 19. Effective publication date: 27.v.1902 (Woelkerling 1993: 280).
- Foslie, M. 1903a. Two new lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1903-2: 1-4. Effective publication date: 31.xii.1903 (Woelkerling 1993: 280). Also issued as an offprint with the same pagination but without covers.

- Foslie, M. 1903b. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1902: 23-25. Effective publication date: 12.ii.1903 (Woelkerling & Lamy 1998: 676).
- Foslie, M. 1903c. The lithothamnia of the Maldives and Laccadives. - In: Gardiner J.S. (ed.) The fauna and geography of the Maldivian and Laccadive Archipelagoes. 1. Cambridge University Press, Cambridge, England. pp. 460-471, pl. 24-25. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1904a. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs 1903: 22. Effective publication date: 23.vi.1904 (Woelkerling 1993: 281).
- Foslie, M. 1904b. I. Lithothamnionaceae, Melobesieae, Mastophoreae. - Siboga Expedition 61: 10-77, pls i-xiii. Part of Weber van Bosse, A. & Foslie, M. 1904. The Corallinaceae of the Siboga expedition. Siboga Expedition 61: 1-110, pl. 1-16. Effective publication date: August 1904 (printed on cover of expedition report; also see Stafleu & Cowan 1988: 132).
- Foslie, M. 1904c. Algologiske notiser. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1904-2: 1-9. Effective publication date: between 24.xii.1904 and 11.i.1905 (Woelkerling 1993: 281). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1904d. Die Lithothamnen des Adriatischen Meeres und Marokkos. - Wissenschaftliche Meeresuntersuchungen, Abt. Helgoland, N. F. 7-1: 1-40, pl. 1-3. Note: also issued as an offprint with the same pagination and with covers in 1904 (date on offprint cover); journal version was published in 1905 (Stafleu & Cowan 1976: 863).
- Foslie, M. 1905a. A new squamariacea from the Adriatic and the Mediterranean. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1905-1: 1-9. Effective publication date: between 25.viii.1905 and 30.iv.1906 (Woelkerling 1993: 281). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1905b. *Lithothamnion vardoense*, a new alga. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1905-2: 1-4. Effective publication date: between 8.ix.1905 and 30.iv.1906 (Woelkerling 1993: 281). Also issued as an offprint the same pagination but without covers.
- Foslie, M. 1905c. Remarks on northern lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1905-3: 1-138. Effective publication date: between 25.viii.1905 and 30.iv.1906 (Woelkerling 1993: 281). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1905d. New lithothamnia and systematical remarks. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1905-5: 1-9. Effective publication date: between 25.viii.1905 and 30.iv.1906 (Woelkerling 1993: 281). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1905e. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1904: 15-18. Effective publication date: between April .1905 and 24.viii.1905 (Woelkerling 1993: 282). Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1904 was bound with Det Kongelige Norske Videnskabers Selskabs Skrifter 1904.
- Foslie, M. 1905f. Calcareous algae from Fuegia. - In: Nordenskjöld, O. Wissenschaftliche Ergebnisse der Schwedischen Expedition nach den Magellansländern 1895-1897. III: Botanik. P.A. Nordstedt & Söner, Stockholm, pp. 65-75. Note: first issued as an offprint (Foslie 1900f) with the same pagination. Running head reads 'Svenska Expeditionen till Magellansländerna BD III. No. 4'. Effective publication

- date: 1905 (date on back of title page), after 25 April (date of prefatory note by O. Nordenskjöld).
- Foslie, M. 1905g. Die Lithothamnen des Adriatischen Meeres und Marokkos. - Wissenschaftliche Meeresuntersuchungen, Abt. Helgoland, N. F. 7-1: 1-40, pl. 1-3. Note: first issued as an offprint in 1904.
- Foslie, M. 1906a. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1905: 17-24. Effective publication date: between 1.v.1906 and 30.xi.1906 (Woelkerling 1993: 282). Also issued as an independently paginated offprint (pp.1-8) without covers.
- Foslie, M. 1906b. Algologiske notiser II. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1906-2: 1-28. Effective publication date: between 1.xii.1906 and 26.xii.1906 (Woelkerling & Lamy 1998: 676). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1907a. Algologiske notiser. III. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1906-8: 1-34. Effective publication date: between 21.vi.1907 and 29.vi.1907 (Woelkerling 1993: 282). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1907b. Algologiske notiser. IV. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1907-6: 1-30. Effective publication date: between 30.ix.1907 and 27.i.1908 (Woelkerling 1993: 282). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1907c. Antarctic and subantarctic Corallinaceae. - In: Nordenskjöld O. (ed.) Wissenschaftliche Ergebnisse der Schwedischen Südpolar-Expedition 1901-1903. 4-5. Lithographisches Institut des Generalstabs, Stockholm. 16 pp., 2 pl.
- Foslie, M. 1907d. Marine algae. II. Corallinaceae. - National Antarctic Expedition (Natural History) 3: 1-2. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1907e. The lithothamnia of the Percy Sladen Trust Expedition, in H.M.S. Sealark. - Transactions of the Linnean Society of London (Botany), Ser. 2, 7: 93-108, pl.15-16. Effective publication date: October 1907 (stated on contents page of volume). Identical in content to Foslie 1907f.
- Foslie, M. 1907f. The lithothamnia. - Transactions of the Linnean Society of London (Zoology), Ser. 2, 12: 177-192, pl. 19-20. Effective publication date: December 1907 (stated on contents page of volume). Identical in content to Foslie 1907e. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1907g. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1906: 18. Effective publication date: between 31.iii.1907 and 20.vi.1907 (Woelkerling 1993: 282).
- Foslie, M. 1907h. Corallinaceae. - Denkschriften der Kaiserlichen Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse 81: 209-210. Note: part of Rechinger, K. 1907. Botanische und Zoologische Ergebnisse einer wissenschaftlichen Forschungsreise nach den Samoa-Inseln, dem Neuguinea-Archipel und den Salomons-Inseln. 1. Denkschriften der Kaiserlichen Akademie der Wissenschaften, Mathematisch-Naturwissenschaftliche Klasse 81:197-318. Note: submitted 11.vii.1907 and considered published in 1907 (Stafleu & Cowan 1983: 617).
- Foslie, M. 1908a. Die Lithothamnen der deutschen Südpolar- Expedition 1901-1903. - Deutsche Südpolar-Expedition 1901-1903 8: 205-219, pl. 20.
- Foslie, M. 1908b. Remarks on *Lithothamnion murmanicum*. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1908-2: 1-8, 2 pl. Effective publication date: be-

- tween 13.vi.1908 and 31.viii.1908 (Woelkerling 1993: 283). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1908c. Bemerkungen über Kalkalgen. - Beihefte zum Botanischen Centralblatt 23-2: 266-272. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1908d. Algologiske notiser. V. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1908-7: 1-20. Effective publication date: between 1.ix.1908 and 28.ix.1908 (Woelkerling 1993: 283). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1908e. Pliostroma, a new subgenus of Melobesia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1908-11: 1-7. Effective publication date: between 1.ix.1908 and 22.xii.1908 (Woelkerling 1993: 283). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1908f. Nye kalkalger. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1908-12: 1-9. Effective publication date: between 23.xii.1908 and 14.i.1909 (Woelkerling 1993: 283). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1908g. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1907: 17-18. Effective publication date: between March 1908 and 18.v.1908 (Woelkerling 1993: 283). The directors report is dated March 1908 on p. 8).
- Foslie, M. 1909a. Remarks on two fossil lithothamnia. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1909-1: 1-5. Effective publication date: between 1.vi.1909 and 18.xii.1909 (Woelkerling 1993: 283). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1909b. Algologiske notiser. VI. - Det Kongelige Norske Videnskabers Selskabs Skrifter 1909-2: 1-63. Effective publication date: between 1.vi.1909 and 18.xii.1909 (Woelkerling 1993: 283). Also issued as an offprint with the same pagination and with covers.
- Foslie, M. 1909c. Den botaniske samling. - Det Kongelige Norske Videnskabers Selskabs Aarsberetning 1908:15. Effective publication date: 31.v.1909 (date on invoice for printing of the Aarsberetning for 1908; see Woelkerling 1993: 10-11 for information on these invoices).
- Foslie, M. 1912. Calcareous algae. - Report of the Scientific Results of the Voyage of the S.Y. "Scotia" 3: 91. Effective publication date: 1912, after March (date of editorial note at start of volume). Date 1912 is on title page.
- Foslie, M. & Howe, M.A. 1906a. Two new coralline algae from Culebra, Porto Rico. - Bulletin of the Torrey Botanical Club 33: 577-580, pl. 23-26. Also issued as an offprint with the same pagination and with covers.
- Foslie, M. & Howe, M.A. 1906b. New American coralline algae. - Bulletin of the New York Botanical Garden 4: (128)-(136), pl. 80-93. Also issued as an offprint with the same pagination and with covers. Effective publication date: 17.iii.1906 (stated on cover of offprint and at bottom of p. 577 in Foslie & Howe 1906a).

Contributions of Foslie to other publications

Foslie was formally acknowledged for contributing information on or identification of species of nongeniculate corallines in the publications listed below. This list almost certainly is not complete.

- Børgesen, F. 1902. The marine algae of the Faeroes. - Botany of the Faeroes. 2. H.H. Tiele, Copenhagen. pp. 339-532. Effective publication date: 15.xi.1902 (Stafleu & Cowan 1976: 249; Stafleu & Mennega 1993: 260). Subsequently issued (Børgesen 1903) without change in pagination as a section of Botany of the Faeroes. 2, ed. by E. Warming. Foslie is acknowledged for identifying specimens referred to *Clathromorphum*, *Dermatolithon*, *Lithothamnion*, *Lithophyllum*, and *Phymatolithon* (see pp 400-402).
- Børgesen, F. & Jónsson, H. 1905. The distribution of the marine algae of the Arctic Sea and the northernmost part of the Atlantic. - Gyldendalske Boghandel, Copenhagen. XXVIII pp. Note: subsequently issued (Børgesen & Jónsson 1908) with the same pagination as an Appendix in The botany of the Færøes based upon Danish investigations. 3, ed. by E. Warming. Foslie is acknowledged on p. I for providing a revised list of corallines (see pp. VII-VIII).
- Børgesen, F. & Jónsson, H. 1908. The distribution of the marine algae of the Arctic Sea and the northernmost part of the Atlantic. In: Warming E. (ed.) The Botany of the Færøes based upon Danish Investigations. 3. Gyldendalske Boghandel - Nordisk Forlagt, Copenhagen. Appendix, pp.: I-XXVIII. Note: First issued in off-print form (Børgesen & Jónsson 1905) with the same pagination. Foslie is acknowledged on p. I for providing a revised list of corallines (see pp. VII-VIII).
- Cotton, A.D. 1907. Marine algae from the Chatham Islands. - Bulletin of miscellaneous Information. Royal Botanic Gardens, Kew 1907: 37-43. Foslie provided notes for the two species of *Lithothamnion* (see pp. 42-43).
- Gran, H.H. 1897. Kristianiafjordens algeflora. I. Rhodophyceae og Phaeophyceae. - Skrifter Udgivne af Videnskabssekabet i Christiania (mathematisk-Naturvidenskabelig Klasse) 1896-2: 1-56, pl. 1-2. Foslie is acknowledged for providing information on species of *Lithothamnion* (see pp. 30-31).
- Harvey-Gibson, R.J. 1908. Reports on the marine biology of the Sudanese Red Sea. — IX. Algae. - Zoological Journal of the Linnean Society 31: 76-80. Foslie is acknowledged (p. 76) for providing identifications of two nongeniculate corallines (see p. 80).
- Jónsson, H. 1901. The marine algae of Iceland. I. Rhodophyceae. - Botanisk Tidsskrift 24-2: 127-155. Foslie is acknowledged (p. 129, 153) for identifying the Corallinaceae belonging to *Clathromorphum*, *Dermatolithon*, *Lithothamnion*, *Lithophyllum*, and *Phymatolithon* (see pp 153-155).
- Kuckuck, P. 1897. Bemerkungen zur marinen Algenvegetation von Helgoland. II. - Wissenschaftliche Meeresuntersuchungen, Neue Folge 2: 373-400. Foslie is acknowledged for identifying two species of *Lithothamnion* (pp. 395-396).
- Kylin, H. 1907. Studien Über die Algenflora der Schwedischen Westküste. - K.W. Appelberg, Uppsala. IV +286 pp., contents page, 1 map, 7 pl. Effective publication date (date of thesis defense): 4.v.1907 (Stafleu & Cowan 1979: 709). Foslie is acknowledged (p. IV) for identifying the 'lithothamniën' (nongeniculate corallines) (see pp. 197-198).
- Reinbold, T. 1899. Ergebnisse einer Reise nach dem Pacific (Prof. Dr. Schauinsland 1896/97). Meeresalgen. - Jahresbericht des Naturwissenschaftlichen Vereines zu

- Bremen 16: 287-300. Foslie is acknowledged for identifying species of *Lithophyllum* and *Lithothamnion* (p. 300).
- Reinbold, T. 1903. Meeresalgen von Tor (Sinai-Halbinsel, Rotes Meer.). - *Hedwigia* 42: 227-232. Foslie is acknowledged for identifying the species of *Goniolithon*, *Lithophyllum*, and *Lithothamnion* (p. 232).
- Reinbold, T. 1907. Die Meeresalgen der deutschen Tiefsee-Expedition 1898-1899. - *Wissenschaftliche Ergebnisse der Deutschen Tiefsee-Expedition auf dem Dampfer "Valdivia" 1898-1899* 2-2: 551-586, pl. 551-554. Foslie is acknowledged for contributing the accounts of *Goniolithon*, *Lithophyllum*, and *Lithothamnion* (pp 578-579).
- Rosenvinge, L.K. 1898. Deuxième mémoire sur les algues marine du Groenland. - Bianco Luno (F. Dreyer), Copenhagen. 125 pp, 121 pl. Effective publication date: October 1898 (Stafleu & Cowan 1983: 896). Subsequently issued in journal form (Rosenvinge 1899) with the same pagination. Foslie is acknowledged (p. 5) for contributing the account of species of *Lithothamnion* (see pp. 9-14).
- Rosenvinge, L.K. 1899. Deuxième mémoire sur les algues marines du Groenland. - *Meddelelser om Grønland* 20: 1-125, pl.121. Note: first issued in book form with the same pagination in 1898; journal version dated 1899. Foslie is acknowledged (p. 5) for contributing the account of species of *Lithothamnion* (see pp. 9-14).
- Saunders, D. 1901. Papers from the Harriman Alaska Expedition. XXV. Algae. - *Proceedings of the Washington Academy of Sciences* 3: 391-486, pl. 43-62. Effective publication date: 15.xi.1901 (stated on p. 391). Foslie is acknowledged (p. 441) for identifying the corallines.
- Setchell, W.A. & Gardner, N.L. 1903. Algae of northwestern America. - *University of California Publications in Botany* 1: 165-418, pls 117-127. Effective publication date: 31.iii.1903 (stated on first page of paper): Foslie acknowledged for identifying specimens referred to *Clathromorphum*, *Lithothamnion*, *Lithophyllum*, and *Melobesia* (see pp 357-359).

Appendix 2 Collection sources

In addition to material he collected himself, Foslie obtained collections from a variety of other sources, and, often, but not always, he indicated the collection source on the box/packet. In some cases, source information was printed on labels sent to Foslie with the material. Appendix 2 deals with collection sources and is divided into five sections: one dealing with material obtained from other institutions and so indicated on boxes/packets; one dealing with material obtained directly from colleagues and so indicated on boxes/packets; one dealing with material collected during scientific voyages and expeditions; one dealing with published exsiccate sets; and one dealing with non-exsiccata specimen series with printed or handwritten labels.

Material obtained from institutional sources and so-indicated on boxes/packets

In the list below, the institutional source is listed in the left hand column, using current institutional names or names given in Index Herbariorum (Holmgren et al. 1990). Standard herbarium abbreviations, where assigned, also are taken from Holmgren et al. (1990). Markings on Foslie's boxes/packets are indicated in the third column, and Notes are provided for some entries in the fourth column.

Institutional source	Standard herb. abb.	How Foslie's boxes/packets are marked	Notes
Biologische Anstalt Helgoland		Biol. Anstalt Helgoland ex herb. Biol. Anstalt Helgoland	Now part of The Alfred Wegener Institute for Polar and Marine Research
Department of Palaeontology, The Natural History Museum, London, England		ex coll. Prof. Judd, Geol. Dept, Brit. Mus	
Geological Institute, London, England		ex coll. Geol. Inst., London ex coll. Geol. Inst., London (Prof. Judd)	Possibly the Royal Society of London (see Foslie 1899b: 3)
University Mineralogical Institute		Uni. Min. Inst.	Now the Department of Geology at the Natural History Museums and Botanical Garden, University of Oslo
Stazione Zoologica Anton Dohrn – Naples Italy [Zoological Station of Naples]		Zool St. Napoli Zool St. Neapel comm. Zool. St. comm. Zool St. Neapel comm. Zool. St. Gulf of Naples	
Herbarium, Botanischer Garten und Botanisches Museum Berlin-Dahlem, Zentraleinrichtung der Freien Universität Berlin, Berlin, Germany	B	Bot. Mus. Berlin Ex Bot. Mus. Berlin ex Mus. Bot. Berol.	Many collections destroyed during World War 2 (Hiepko 1987), including most of those of Heydrich

Institutional source	Standard herb. abb.	How Foslie's boxes/ packets are marked	Notes
Herbarium, University of Bergen, Bergen, Norway	BG	Bergens Mus.	
Herbarium, Department of Botany, The Natural History Museum, London, England U.K.	BM	Brit. Mus., or British Mus., or ex Brit. Mus., or ex Herb. British Mus., or ex Herb. British Museum	BM also houses the herbaria of Batters, Holmes, and algal collections originally deposited at K
Herbarium, Jardin Botanique national de Belgique, Meise, Belgium	BR	ex herb. Jard. Bot. de l'Etat Brusselles ex herb. Jardin Botanique de l'Etat, Bruxelles	
Botanical Museum and Herbarium, University of Copenhagen, Copenhagen, Denmark	C	ex Bot. Mus. Kbhavn Bot. Mus. Kbh' Bot. Mus. Kbhavn ex herb. Bot Mus Kbh. Mus. bot. Haun	Mus. bot. Haun. [=Museo botanicum Hauniensi, an old Latin name for the Botanical Museum Copenhagen]
Herbarium, Jardim Botânico da Universidade de Coimbra, Coimbra, Portugal	COI	comm. Henriques, Coimbra ex herb. Jard. Bot. Coimbra ex herb. Univ. Coimbra Univ. Bot. Mus. Coimbra	
Science and Arts Museum, Dublin, Republic of Ireland		ex herb Science + Art Museum, Dublin Sci. Art Mus. Sci. & Art Mus. Sc.+ Art Mus., Dublin Science + Art Mus. Science + Art Mus. Dublin ex herb. Sci.+ Art Mus. Dublin ex herb. Science+ Art Mus. Dublin	
Museo Paulista, São Paulo, Brazil		ex herb. Sc. & Art Mus Dublin coll. Museo Paulista ex Museo Paulista	Algal collections housed at Museo Paulista in Foslie's time have been transferred to SP
Herbarium, Institut für allgemeine Botanik, Hamburg, Germany	HBG	Bot. Mus Hamburg ex Bot. Mus. Hamburg ex herb. Bot. Mus. Hamburg Bot. Mus. Hamb.	
Herbarium, Royal Botanic Gardens, Kew, England	K	ex herb. Kew Gardens ex herb. Kew	All algal collections housed at K in Foslie's time have been transferred to BM
University College, Liverpool, England		ex coll. Univ. College Liverpool ex herb. Univ. College Liverpool ex herb. Univ. Liverpool	Algal collections housed at the University College, Liverpool in Foslie's time have been transferred to LIV
William and Lynda Steere Herbarium, New York Botanical Garden, Bronx, New York, U.S.A.	NY	ex New York Bot. Garden	Nearly all material from NY was sent to Foslie by M.A. Howe, who also collected most of the specimens

Institutional source	Standard herb. abb.	How Foslie's boxes/ packets are marked	Notes
Bâtiment de Cryptogamie, Département "Systématique et évolution", Muséum national d'Histoire naturelle, Paris, France [formerly Laboratoire de Cryptogamie, Muséum national d'Histoire naturelle, Paris, France]	PC	ex herb. Mus. Paris ex Mus. Paris ex Mus. d'hist. nat. Paris ex Mus d'H. n. Paris ex Mus d'H. nat. Paris ex Mus d'H. Natur. Paris ex Mus d'hist. Natur. Paris Herb. Mus. Paris Mus. Paris Mus. d'hist. nat. Paris Herb. Mus. Hist. nat. Paris	PC now houses the Thuret-Bornet herbarium and the herbarium of C. Sauvageau, and the collections of Hariot, who was based at PC (Lamy & Woelkerling 1998; Woelkerling 1998c)
Herbarium, Botany Department, Swedish Museum of Natural History, Stockholm, Sweden	S	ex Bot. Mus. Stockholm ex herb. Riksmus, Stockholm ex herb. Riksmuseet Stockholm	Most algal collections of Areschoug are now housed at S
Herbarium, Trinity College, Dublin, Republic of Ireland	TCD	ex herb. Trinity College Dublin ex herb. T. C. D. ex T.C. Dublin ex herb. T.C. Dublin	
University Herbarium, University of California, Berkeley, California, USA	UC	ex Herb. of the Univ. of California	
Museum of Evolution, Botany Section (Fytoteket), Uppsala University, Uppsala, Sweden	UPS	ex mus. zool. Upsal.	UPS houses the herbarium of F.R. Kjellman
Herbarium, Department of Botany, Naturhistorisches Museum Wien, Wien, Austria	W	ex Bot. Mus. Wien ex herb. Bot. Mus. Vienna ex herb. Bot. Mus. Wien ex herb. Naturh. Hofmus, Wien ex K.K. Hofnaturhist. Hofmus, Wien ex K.K. Naturhist. Hofmuseum, Wien Herb. K.K. Naturh. Hofmus. Wien Herb. Hofmus. Wien Naturh. Hofmus. Wien herb. Wien	

Material obtained directly from colleagues and so-indicated on boxes/packages

The specimens in most personal herbaria from which Foslie obtained material are now housed at recognized institutional herbaria. In the table below, each personal herbarium from which Foslie obtained material is listed in the left hand column. The current institutional location of the herbarium, where known, is given in the second column, and the standard herbarium abbreviation for the institution is given in column 3. Data on current institutional locations are largely taken from Stafleu & Cowan (1976) et seq. and Stafleu & Mennega (1992) et seq. and from Holmgren et al. (1990), as indicated in the fourth column. Foslie also obtained material from the personal herbaria of other colleagues (e.g. F.S. Collins, H. Kylin, C. Sauvageau) but did not explicitly indicate the source on the collection. These sources are **not** included in the list below because Foslie did not indicate them on his collections, but brief biographic notes on these collectors are included in Appendix 3.

Personal herbarium	Current location of the personal herbarium	Stand. herb. abb.	Notes
Areschoug, J.E.	Herbarium, Botany Department, Swedish Museum of Natural History, Stockholm, Sweden	S	Stafleu & Mennega 1992: 158
Batters, E.A.L.	Department of Botany, The Natural History Museum (London)	BM	
Bornet, E.	Bâtiment de Cryptogamie, Département "Systématique et évolution", Muséum national d'Histoire naturelle, Paris, France [formerly Laboratoire de Cryptogamie, Muséum national d'Histoire naturelle, Paris, France]	PC	For further information on the Thuret-Bornet herbarium, see Lamy & Woelkerling 1998: 84-87; 169-172; and Woelkerling 1988: 281
Chalon, J.	Mainly at Jardin Botanique national de Belgique, Bruxelles, Belgium, but some collections also dispersed	BR	Stafleu & Mennega 1997: 39
Crouan, P.L. & Crouan, H.M.	Dispersed amongst several institutions, but many specimens in PC		Stafleu & Mennega 1997: 480
Debray, F.	Herbarium, Université d'Alger, Algiers, Algeria	AL	Stafleu & Mennega 1998: 130
DeToni, G.B.	Herbarium Neapolitanum, Dipartimento di Biologia Vegetale, Università Degli Studi di Napoli Federico II, Napoli, Italy	NAP	Stafleu & Mennega 1998: 240
Dickie, G.	Herbarium, Department of Botany, The Natural History Museum (London)	BM	
Farlow, W.G.	Farlow Reference Library and Herbarium of Cryptogamic Botany, Harvard University, Cambridge, Massachusetts, U.S.A.	FH	
Flahault, C.H.M.	Institut de Botanique, Université de Montpellier, Montpellier, France	MPU	Stafleu & Cowan 1976: 843
Gunnerus, J.E.	Herbarium, Museum of Natural History and Archaeology, Norwegian University of Science and Technology, Trondheim, Norway	TRH	

Personal herbarium	Current location of the personal herbarium	Stand. herb. abb.	Notes
Hauck, F.	Nationaal Herbarium Nederland Universiteit branch, Leiden, The Netherlands [formerly known as the Rijksherbarium, Leiden, The Netherlands]	L	
Henriques, J.A. Heydrich, F	Herbarium, Jardim Botânico da Universidade de Coimbra, Coimbra, Portugal Original herbarium destroyed	COI	Stafleu & Cowan 1979: 187
Holmes, E.M.	Department of Botany, The Natural History Museum (London)	BM	L. Irvine & J. Bryant (personal communication)
Kjellman, F.R.	Museum of Evolution, Botany Section (Fytoteket), Uppsala University, Uppsala, Sweden	UPS	
Kützing, F.T.	Nationaal Herbarium Nederland Universiteit branch, Leiden, The Netherlands [formerly known as the Rijksherbarium, Leiden, The Netherlands]	L	
Lebel, J.E.	Bâtiment de Cryptogamie, Département "Systématique et évolution", Muséum national d'Histoire naturelle, Paris, France [formerly Laboratoire de Cryptogamie, Muséum national d'Histoire naturelle, Paris, France]	PC	
LeJolis, A.F.	Société des Sciences Naturelles et Mathématiques, Cherbourg, France	CHE	
Lenormand, S.E.	Herbier, Université de Caen, Caen, France	CN	
Möbius, M.	Location unknown		Stafleu & Cowan 1981: 531
Reinbold, T	Dispersed amongst several institutions		Stafleu & Cowan 1983: 698
Robertson, Hannah	Location unknown		Collection marked 'ex. herb. Mrs Robertson'
Rothpletz, A.	Herbarium, Botanische Staatssammlung München, München, Germany	M	Stafleu & Cowan 1983: 927
Setchell, W.W.	University Herbarium, University of California, Berkeley, California USA	UC	
Sommerfelt, S.C.	Botanical Museum and Herbarium, University of Copenhagen, Copenhagen, Denmark	C	Koster 1969: 557
Thuret, G.	Bâtiment de Cryptogamie, Département "Systématique et évolution", Muséum national d'Histoire naturelle, Paris, France [formerly Laboratoire de Cryptogamie, Muséum national d'Histoire naturelle, Paris, France]	PC	For further information on the Thuret-Bornet herbarium, see Lamy & Woelkerling 1998: 84-87; 169-172; and Woelkerling 1988: 281
Weber-van Bosse, A.	Nationaal Herbarium Nederland Universiteit branch, Leiden, The Netherlands [formerly known as the Rijksherbarium, Leiden, The Netherlands]	L	
Wille, J.N.F.	Herbarium, Botanical Museum, Blindern, Oslo, Norway	O	Stafleu & Cowan 1988: 306
Yendo, K.	Dispersed amongst several institutions		Stafleu & Cowan 1988: 490

Material collected during voyages and expeditions

Material from a number of scientific voyages and expeditions, listed below, occurs in Foslie's herbarium. In some cases, the expedition/voyage name is documented on the box/packet while in other cases it occurs on a printed label or an annotation slip inside the box/packet. In still other cases, relevant expedition/voyage documentation is lacking on boxes/packets. Other undocumented voyages and expeditions or excursions may be represented but were not identified during the present study.

Antarctic Voyage of M.H. Discovery ships Erebus and Terror in the years 1839-1843

Voyage not referenced on box, but isolectotype of *Melobesia verrucata* var. *antarctica* (B17-2529) collected during this voyage. Main accounts of algae for the Antarctic provided by Harvey & Hooker (1847a, 1847b).

Belgian Antarctic Expedition (1897-1899)

'Exp. Antarct. Belge' (= Expédition Antarctique Belge) written on box containing holotype fragments of *Lithothamnion scutelloides* (C18-3366). Holotype fragments of *Lithophyllum capitulatum* (A9-440) also originated from this expedition but not so documented on box. Account of nongeniculate coralline collections provided by Heydrich (1900e). Account of other algae provided by De Wildeman (1935). Expedition algae collected by E. Racovitza.

(British) National Antarctic Expedition (1901-1904)

'Britisk antarkt. Exp. "Discovery"' written on B2-1684 and 'Brit. antarct. Exp. "Discovery"' written on C18-3330. The Discovery was the main research vessel of the expedition. Nongeniculate corallines reported on by Foslie (1905e: 16) (*Lithothamnion fumigatum* f. *aucklandicum*) and Foslie (1907d) (*Lithothamnion coulmanicum*).

British Transit of Venus Expedition (1874-1875)

'Transit of Venus Exp. 1874' written on box housing a Rodriguez Island collection of *Lithophyllum kotschyannum* (A20-1275). Specimen obtained by Foslie from BM. Accounts of the algae collected at Rodriguez Island provided by Dickie (1877b, 1879) who identified the material as *Lithothamnion mamillare*. A.E. Eaton collections from Kerguelen (B18-2612, B18-2619) are also from this expedition but are not so documented on boxes.

Carlsbergfondets Ekspedition til Østgrønland (Carlsberg Foundation Expedition to Eastern Greenland) (1898-1900)

'Expeditio Danica in Groenlandiam orientalem 1898-99' printed on label' in box containing a Kruuse collection of *Clathromorphum compactum* (C20-3471) sent to Foslie from C. Two other Greenland Kruuse collections (B4-1836, B9-2208) and one Kruuse collection from Jan Mayen (B9-2209) almost certainly originated from same expedition but are not so documented on boxes. Accounts of algae from expedition provided by Jónsson (1904a, 1904b) (also see Kjellman 1906:2 and Lund 1959: 10).

Caspian Sea Expedition (1904)

'Kaspiske Expedition i 1904' written on box of the type of *Mastophora lapidea* (A1-34). Probably refers to 1904 expedition to Caspian Sea led by N.M. Knipovitch (see Zenkevitch 1963: 538). A second Henkel collection (A16-997) almost certainly originated from same expedition but is not so documented on box.

Challenger Expedition (1873-1876)

'Challenger Exp.' written on boxes containing lectotype of *Lithothamnion heterocladum* (C2-2923) and holotype fragments of *Lithothamnion imbricatum* (C15-3229). Accounts of algae from expedition include Dickie (1874a, 1874b, 1874c, 1876b, 1876c, 1877a) and Hemsley (1884a, 1884b, 1884c).

Danish Expedition to East Greenland (1898-1899)

See Carlsbergfondets Ekspedition til Østgrønland (1898-1899)

Danish Expedition to Siam (1899-1900)

'Den danske Siam exp. 1899-1900' written on annotation slips in some but not all boxes of material from expedition. Algae collected by J. Schmidt. Account of nongeniculate corallines provided by Foslie (1901b).

Danish Ingolf Expedition (1895-1896)

'Ingolf Exp.' written on three boxes (B4-1845, B9-2214, C20-3472). Expedition visited Greenland and Iceland. Nongeniculate corallines from Greenland identified by Foslie and results incorporated into algal account of Rosenvinge (1898). Nongeniculate corallines from Iceland identified by Foslie and results incorporated into red algal account of Jónsson (1901) who (pp. 129, 153) acknowledged Foslie's determinations. Rosenvinge (1898: 4) & Jónsson (1901: 128) noted that expedition algae were collected by C.H. Ostenfeld (Stafleu & Cowan 1981: 854). Other Ostenfeld collections in Foslie's herbarium almost certainly originated from same expedition but are not so documented on boxes.

De norske statsunderstøttede Spitsbergenekspedisjoner (1906-1907)

'Isachsens Spitsbergen Exp. 1907' or 'Isachsen Spitsb. Exp. 07' written on two fossil collections of *Lithothamnion glaciale* (B9-2184, B9-2185). Expedition leader was Gunnar Isachsen. Specimens collected by A. Hoel but not mentioned in publication by Foslie.

Den Østgrønlandske Ekspedition udført i Aarene 1891-1892

Expedition not referenced on boxes/packets, but all 1891-1892 Hartz collections from Greenland are from the expedition (see Lund 1959: 10). Foslie contributed information on Greenland collections to Rosenvinge (1898, 1899).

Deutsche Südpolar-Expedition (1901-1903)

'Gauss Exp.' written on boxes in Foslie herbarium. Account of nongeniculate corallines provided by Foslie (1908a) based on Vanhöffen collections from the Cape Verde Islands and Werth collections from Kerguelen. Gauss was main research vessel for expedition. Account of other algae provided by Reinbold (1908).

Deutsche Tiefsee-Expedition auf dem Dampfer *Valdivia* 1898-1899

'Tyske Exp. Valdivia' or 'Exp. Valdivia' or 'Tyske Exp. Valdivia 1898-1899' written on boxes in Foslie herbarium. Valdivia was research vessel for the expedition. Algae collected by A.F.W. Schimper. Account of algae provided by Reinbold (1907a) who acknowledged that Foslie had identified the nongeniculate corallines. According to Reinbold (1907a: 579-581), the expedition visited following areas: Canary Islands; Cape of Good Hope, Bouvet Island, Kerguelen Island, St Paul Island, New Amsterdam Island, Sumatra, Nicobar Islands, Mahé Island (Seychelles), Dar-es-Salaam, and the Red Sea.

Dutch New Guinea Expedition (1902-1903)

'Hollandisk Ny Guinea Exp. 1902-03' or 'Holl. Ny Guinea Exp. 1902-03' written on two boxes of *Archaeolithothamnion erythraeum* (C19-3407, C19-3408) collected by Wichmann.

Discovery Expedition (1901-1904)

See (British) National Antarctic Expedition (1901-1904).

Eugenie Expedition (1851-1853)

'Exp. Eugenia' written undated box containing the holotype of *Goniolithon breviclavium* (A14-734) from Hawaii, and 'Eugenie-Exp.' written on boxes containing a Cocos-Keeling Islands collection of *Lithophyllum kotschyianum* (A20-1273) and the holotype of *Lithophyllum coarctatum* f. *sandvicensis* (A28-1590). Eugenie was Swedish frigate; expedition circumnavigated the globe; Nils Johan Andersson (Stafleu & Mennega 1992: 115) was expedition botanist but not so documented on boxes.

'Exp. Wærdemann'

'Exp. Wærdemann' written on one box (A6-283); also mentioned in the protologues of *Lithophyllum intermedium* (Foslie 1906b: 23-24) and *Lithothamnion floridanum* (Foslie 1906b: 11-12). The correct family name is Wurdemann (see Gifford 1969).

Expedition de l'Astrolabe et de la Zélée (1837-1840)

'Expedition de l'Astrolabe et de la Zélée' written on one packet of *Melobesia farinose* (A15-817). Account of algae from voyage provided by Montagne (1845). Voyage circumnavigated the globe including south polar regions.

Expédition scientifique de Morée (1829)

'Exp. Sc. Morée' written on one box (A4-177). Bory de Saint-Vincent participated in the expedition (Lamy & Woelkerling 1998: 89). Sherborn & Woodward (1901b: 335-335) provided additional information on expedition publications.

Expédition Antarctique Française (1903-1905)

'Exp. antarctique Charcot' marked on box containing type of *Lithophyllum aequabile* f. *wandelica* (A9-439). J.-B. Charcot (Lamy & Woelkerling 1998: 186-187) was expedition leader. Account of algae provided by Hariot (1906) who acknowledged Foslie for identifying the only nongeniculate coralline.

French Antarctic Expedition (1903-1905)

See Expédition Antarctique Française (1903-1905).

Galathea Expedition (1845-1847)

'Galathea Expedition' written on one box of *Lithophyllum kotschyannum* (A20-1276). Specimen obtained from C. No other collections in Foslie herbarium explicitly linked to this expedition. The Galathea Expedition was the first Danish expedition to circumnavigate the globe; the Galathea was the expedition vessel.

'Gauss Expedition'

See Deutsche Südpolar-Expedition (1901-1903).

'Gazelle Expedition' (1874-1876)

See German Transit of Venus Expedition (1874-1876).

German Deep Sea Expedition (1898-1899)

See Deutsche Tiefsee-Expedition auf dem Dampfer Valdivia 1898-1899.

German South Polar Expedition (1901-1903)

See Deutsche Südpolar-Expedition (1901-1903).

German Transit of Venus Expedition (1874-1876)

'Gazellen-Expedition 1874-1875' or 'Gazellen-Exp. 1874-1875' written on two collections (A9-442, B2-1679). Gazelle was research vessel of the German Transit of Venus Expedition of 1874-1876 (Headland 1989: 196). Account of algae provided by Askenasy (1888).

Harriman Alaska Expedition (1899)

'The Harriman Alaska Expedition' written on boxes in Foslie's herbarium. Foslie contributed information on corallines to the marine algal account of Saunders (1901). Two specimens listed by Saunders 1901 [423a ('*Melobesia patens*', a name never mentioned in Foslie's publications) and 430 (*Lithothamnion glaciale*)] were not found in Foslie herbarium.

Hassler Expedition (1871-1872)

'Hassler Exp.' written on two collections (A12-651, A24-1404). Hassler was expedition research vessel; Louis Agassiz was expedition leader. Information on algal collections provided by Taylor (1930, 1939, 1945, 1947).

Herbarium of the University of California Botanical Expedition to Alaska (1899)

'Botanical Expedition to Alaska, 1899' printed on annotation slips in boxes of material from the expedition. Account of algae provided in Setchell & Gardner (1903), who (p. 357) acknowledge Foslie's contribution on nongeniculate corallines.

Hopkins-Stanford Expedition of 1898-1899 to the Galapagos Islands

Expedition not referenced on boxes but the type of *Lithothamnion galapagense* (B1-1621) was collected by Snodgrass & Heller in December 1898 during this expedition. Account of algae provided by Farlow (1902) but *Lithothamnion galapagense* was first described by Foslie (1907a: 9) based on a specimen identified by Farlow (1902: 98) as *Melobesia corticiformis*.

Ingolf Expedition (1895-1896)

See Danish Ingolf Expedition (1895-1896).

Isachsen Spitsbergen Expedition (1906-1907)

See Norsk Vitenskapelig Utforskning av Svalbard (1906-1907).

Josephine Expedition

'Josefine Exp (?)' written on box of C15-3216 and 'Josephine Expedition (?)' written on box of A28-1589. Both collections undated and from Cocos-Keeling Islands.

Kaspiske Expedition (1904)

See Caspian Sea Expedition (1904).

Maldive and Laccadive Archipelagos Expedition (1899-1900)

Expedition not referenced on boxes, but all Gardiner collections from the Maldives and Laccadives are from expedition. Account of nongeniculate corallines provided by Foslie (1903c). List of other marine algae published by Barton (1903).

Mission scientifique du Cap Horn 1882-1883

Expedition not referenced on boxes, but three Hariot collections (A18-1184, B2-1705, B17-2528) were obtained during this expedition. Expedition funded by French government. Account of algae provided by Hariot (1888, 1889).

Percy Sladen Trust Expedition to the Indian Ocean in 1905

'*Lithoth.* Sealark Exp.' written on some but not all collection boxes from expedition. The Sealark was the expedition research vessel. Algae collected by J. Stanley Gardiner from The Chagos Archipelago, Cargados Carajos, Saya de Malha Banks, Coetivy, Providence, Amirante, and the Seychelles Archipelago. Accounts of nongeniculate corallines provided by Foslie (1907e, 1907f).

Royal Society of London Expeditions to Funafuti (1896, 1897, 1898, 1899)

Expeditions not referenced on boxes in Foslie's herbarium, but Foslie received a series of Funafuti samples collected during the expeditions (most sent from **BM** by George Murray). Accounts of the collections provided in Foslie 1899b and Foslie 1900g.

Scientific Voyage to the Samoa Islands, the New Guinea Archipelago and the Solomon Islands (1905)

Voyage not referenced on boxes, but all Rechinger collections in the Foslie herbarium are from this voyage. Account of nongeniculate corallines provided by Foslie (1907h) based on collections of K. Rechinger (Stafleu & Cowan 1983: 616) from California (U.S.A.), Hawaii, and Western Samoa. Account of other algae provided by Reinbold (1907b). Additional information on expedition provided by Rechinger (1907).

Scotia Expedition

See Scottish National Antarctic Expedition (1902-1904).

Scottish National Antarctic Expedition (1902-1904)

'Skotske antarkt. Exp. "Scotia"' written on boxes housing type of *Lithophyllum discoideum* f. *aequabilis* A9-437), one collection of *Lithophyllum subantarcticum* (A2-115), and type of *Lithothamnion magellanicum* f. *crenulata* (B1-1620). *Scotia* was the expedition research vessel. Algae probably collected by R.N. Rudmose Brown (expedition botanist) but not so indicated on collections in Foslie herbarium. Descriptions of the two new taxa provided in Foslie 1905e; protologues posthumously republished (Foslie 1912).

Sealark Expedition

See Percy Sladen Trust Expedition to the Indian Ocean in 1905.

Second Norwegian Polar Expedition in the *Fram* (1898-1902)

'Sverdrup's Fram Expedition' or 'Sver. Fram Exp.' written on boxes. The Fram was the expedition vessel and O. Sverdrup was expedition leader. Algae collected by H.G. Simmons (Stafleu & Cowan 1985: 606) or E. Bay from Greenland and from Ellesmereland and other regions of arctic Canada. Botanical work of expedition summarized by Simmons (1904) who (p.476) indicated that calcareous algae were given to Foslie for study. Results not summarized in a separate paper but instead mainly incorporated into Foslie 1905c. Foslie's results repeated by Rosenvinge (1926) as part of an account of all marine algae collected during the expedition.

Siboga Expedition (1899-1900)

'Siboga Exp.' Or slight variants written on most expedition collection boxes/packets. Algae collected by A. Weber-van Bosse in Indonesia and several adjacent regions. Account of nongeniculate corallines provided by Foslie (1904b). Accounts of other algae provided by Weber-van Bosse (1904, 1913, 1921, 1923, 1928). Corallines are listed again in Weber-van Bosse 1921: 302-308 without descriptions.

Sverdrup's Fram Expedition (1898-1902)

See Second Norwegian Polar Expedition in the Fram (1898-1902).

Svenska Expeditionen til Magelansl ndern (1895-1897)

Expedition not referenced on boxes, but all Dus n collections in the Foslie herbarium are from this expedition. Account of nongeniculate corallines provided by Foslie (1900f as an offprint and 1905f as a journal article). Account of green algae provided by Svedelius (1900).

Swedish South Polar Expedition (1901-1903)

'Sv. Sydp. Exp. 1901-03' or 'Sv. Antarkt. Exp.' written on boxes of material from expedition. Account of nongeniculate corallines provided by Foslie (1907c) based on collections of C. Skottsberg from Observatory Island, the Beagle Channel (Fuegia), the Falkland Islands, South Georgia and Louis Philip Land. Accounts of other marine algae provided by Skottsberg (1907) and Kylin & Skottsberg (1919).

Transit of Venus Expeditions

See British Transit of Venus Expedition (1874-1875) and German Transit of Venus Expedition (1874-1876).

U.S. Fish Commission 1902 Expedition of the USS Steamer Albatross

'U.S. Fish Commission Steamer Albatross (1902?)' written on box housing holotype of *Goniolithon frutescens* f. *galapagense* (A12-667) (protologue, Foslie 1907a: 18), and 'Smiths. Inst. Sta. 3968 Albatross 1902' written on one box of *Goniolithon frutescens* (A12-650). Expedition mission was to explore the deep seas around the Hawaiian Islands. Foslie did not provide a separate account from this expedition.

Valdivia Expedition (1898-1899)

See Deutsche Tiefsee-Expedition auf dem Dampfer Valdivia 1898-1899.

Vega Expedition (1878-1880)

'Vega-Exp.' written on boxes containing lectotype of *Lithophyllum tenue* Kjellman (B2-1737) lectotype of *Lithothamnion loculosum* Kjellman (C21-3520), and a syntype of *Lithothamnion durum* Kjellman (C21-3517). Vega was expedition vessel. Accounts of algae collected during expedition incorporated into Kjellman (1883, 1885) who was expedition botanist.

Published exsiccata sets

The exsiccata sets below, which are represented in Foslie's herbarium, are treated as published exsiccata by Sayre (1969). According to Sayre (1969: 1) an exsiccata '...must exist in several identical sets, and must be numbered with set numbers, not field numbers. It [also] should be possible to designate the author (who may or may not be the collector), and the place and date of first issue.' Details for each set are provided by Sayre (1969). Specimens from other exsiccata may be present in Foslie's herbarium but have not been identified during the present study.

Algae Britannicae Rariores Exsiccatae

Exsiccata set consists of 12 fascicles and contains 312 specimens (Sayre 1969: 80-81). Represented in **TRH** by a collection of *Melobesia farinosa* (A15-803).

Algues Marines de Cherbourg

Exsiccata consists of 14 fascicles and contains 280 specimens (Sayre 1969: 84-85). Represented in **TRH** by single collections of *Lithophyllum hapalidioides* f. *confines* (A18-1223), *Lithophyllum incrustans* (A8-420), *Melobesia macrocarpa*, and *Melobesia macrocarpa* f. *laminariae* (A17-1119), and two collections of *Melobesia farinosa* (A15-842, A15-843).

Die Algen Europas

Exsiccata set consists of 160 Decades and contains 1600 specimens (Sayre 1969: 92-95). Represented in **TRH** by a collection of *Melobesia farinosa* (A15-811; see notes in entry).

Erbario Crittigamico Italiano

Exsiccata set consists of 30 fascicles and contains 1500 specimens (Sayre 1969: 20-22). Represented in **TRH** by a collection of *Melobesia farinosa* (A15-811; see notes in entry).

Lithothamnium Selecta Exsiccata

See Chapter 6 for details of this set.

Phycotheca Boreali Americana

Exsiccata set consists of 51 fascicles and contains 2505 specimens (Sayre 1969: 66-68). Represented in **TRH** by collections of *Melobesia lejolisii* (A15-898) and *Melobesia lejolisii* f. *limitata* (A15-959).

Phycotheca Italica, Collectione de Alghe Italiane

Exsiccata set consists of 4 fascicles and contains 200 specimens (Sayre 1969: 70). Represented in **TRH** by two collections of *Melobesia confervicolum* (A17-1025, A17-1026).

Non-exsiccata specimen series

Some collections in Foslie's herbarium are accompanied by labels with printed or hand-written names resembling those of exsiccata sets. None, however, are included in Sayre (1969) because they do not meet requirements to qualify as a published exsiccata (see comments in Section D above). The names found are listed below, with examples of specimens from Foslie's herbarium. Labels with only printed institutional names or personal herbarium names are not included.

Algae Boreali-Americana

Examples: A15-896, A15-897, A17-1034.

Algae marinae Corsicanae

Example: B15-804 (only one found).

Algae marinae Danicae

Example: A17-1092 (only one found).

Algae marinae ex Insulis Danicis Indiae Occidentalis

Example: A22-1334 (only one found).

Algae marines des Canaries

Examples: B16-2467, B16-2468.

Algae Norvegicae

Example: C7-3060 (only one found).

Algae of the Pribilof Islands

Example: C21-3522 (only one found).

Algae of Puget Sound

Examples: B9-2225, B15-2372.

Bermuda Algae

Examples: A17-1137 through A17-1141, B16-2519, C15-3234 through C15-3236.

See Schneider 2003: 276 for further information on this series.

Cryptogams of Jamaica 1906-1906 collected by A.E. Wright

Example: A15-889 (only one found).

Flora of the Philippines

Example: A16-1006 (only one found).

New York Botanical Garden North American Marine Algae

Examples: A15-828 through A15-831, A15-833 through A15-839, B2-2194.

North American Marine Algae

Examples: A10-537, A12-621, A13-700.

North American Marine Algae Distributed from the Herbarium of The New York Botanical Garden

Examples: A1-18, A14-752, A15-818 through A18-827, A16-1019.

Planta Islandica

Example: B5-1914 (only one found).

Plantae groenlandicae, a Museo botanico Hauniensi distributae

Examples: B2-1738, B4-1868, C20-3471, C22-2933.

Plants of California

Examples: A11-616, B15-2369, B15-2370.

South American Cryptogams

Examples: B17-2546, C15-3227.

W. Tyson Algae austro. Africa'

Example: B1-1612 (only one found).

Appendix 3 Biographic notes on collectors and communicators

Appendix 3 contains short notes on three overlapping groups of individuals: those who collected specimens now in the Foslie herbarium; those who sent specimens to Foslie from their own personal herbaria; and those who sent specimens from herbaria at institutions where they worked. Entries occur in a single alphabetical list. Information on birth and death dates and selected references to additional information have been provided when such references have been found. In cases where biographic data has not been found or the identity of the individual is uncertain, brief, general information on collections to which such individuals are linked is given. There are no additional persons represented in the ancillary herbarium or in the *Lithothamnium Selecta Exsiccata*.

- Agardh, Jakob Georg (1813-1901).** Swedish phycologist. Additional information — Barnhart 1965a: 19; Lamy & Woelkerling 1998: 178; Stafleu & Cowan 1976: 18-21; Stafleu & Mennega 1992: 41-44.
- Agassiz, Alexander Emmanuel Rodolphe (1835-1910).** Swiss born American businessman and zoologist. Additional information — Barnhart 1965a: 19; Lamy & Woelkerling 1998: 178; Sargeant 1980: 394; Stafleu & Cowan 1976: 21-22.
- Anderson, A.J. (Mrs) (birth and death dates not found).** American collector— one collection of '*Melobesia marginatum*' (B1-1626) from Neab Bay, Washington. Additional information — not found during present study.
- Anderson, Charles Lewis (1827-1910).** American physician and naturalist. Additional information — Barnhart 1965a: 54; Papenfuss 1976: 31; Stafleu & Mennega 1992: 107-108.
- Andersson, Gunnar (1865-1928).** Swedish botanist; travelled to Italy in 1892. Additional information — Barnhart 1965a: 58; Stafleu & Mennega 1992: 112-115.
- Andersson, Johan Gunnar (1874-1960)** Swedish geologist, archaeologist and traveller who participated in the Swedish South Polar Expedition (1901-1903) with the botanist Carl Skottsberg. Additional information — Baillie 1994a: 93; Boëthius 1918: 751-754; Henriksen 1995: 337; Nordenskjöld & Andersson 1905; Sargeant 1980: 424-425.
- Andrussow, Nikolai Ivanovitch (1861-1924).** Russian palaeontologist and geologist. Additional information — Barnhart 1965a: 63; Foslie 1899e: 24; Foslie 1900j: 26; Lamy & Woelkerling 1998: 180; Sargeant 1980: 431.
- Appleyard, Percy (birth and death dates not found).** Australian collector based in Albany, Western Australia who sent one collection of *Melobesia cymodocea* (A15-792) to Foslie. Additional information — Foslie 1909c: 15.
- Ardissoni, Francesco (1837-1910).** Italian phycologist and botanist. Additional information — Barnhart 1965a: 72; Lamy & Woelkerling 1998: 180-181; Stafleu & Cowan 1976: 58-59; Stafleu & Mennega 1992: 158-159.
- Areschoug, Johan Erhart (1812-1887).** Swedish botanist and phycologist. Additional information — Barnhart 1965a: 73; Lamy & Woelkerling 1998: 80-82; Stafleu & Cowan 1976: 62-64.
- Arwidsson, Ivar (1873- 1936).** Swedish zoologist who collected coralline material in Sweden during 1901-1904. Additional information — Barnhart 1965a: 80; Boëthius 1920: 322-324.
- Attersoll, Miss Maria (1793-1877)** British collector— one undated collection from Malta, ex BM. Additional information — Desmond 1994: 26; Lanjouw & Stafleu 1954: 44.
- Bamler, G. (birth and death dates not found).** Missionary on Tami Island. Collected types of *Perispermum hermaphroditum* Heydrich, *Lithothamnium onkodes* Heydrich, and *L.*

- tamiense* Heydrich. Additional information — Barnhart 1965a: 115; Lamy & Woelkerling 1998: 181-182; Schumann 1895: 44; Van Steenis-Kruseman 1950: 33.
- Barnard, J.M. (birth and death dates not found).** Collected the type of *Lithophyllum dentatum* f. *sandvicensis* (A28-1605) from the Hawaiian Islands in 1858 that were sent to Foslie by Farlow in 1900. Additional information — not found during present study.
- Batters, Edward, Arthur, Lionel (1860-1907).** English phycologist. Additional information — Barnhart 1965a: 139; Desmond 1994: 54; Lamy & Woelkerling 1998: 82-84; Stafleu & Cowan 1976: 144; Stafleu & Mennega 1992: 380-381.
- Bay, Edvard (1867- 1938).** Danish zoologist who participated in the Second Norwegian Polar Expedition in the Fram (1898-1902). Additional information — Lanjouw & Stafleu 1954: 61; Sverdrup 1904a: 3.
- Becker, Hermann Franz (1838-1917).** German-born medical Doctor and collector based in South Africa. Additional information — Barnhart 1965a: 150; Lamy & Woelkerling 1998: 182.
- Beieska, ? (birth and death dates not found).** Gathered collections of *Melobesia lejolisii* in Denmark (A15-958) and Germany (A15-957) in 1887. Additional information — not found during present study.
- Binder, Nicolas (1785-1864).** German phycologist and politician. Additional information — Barnhart 1965a: 187.
- Blokeslee, A.H. (birth and death dates not found).** Gathered collections of *Lithophyllum daedaleum* (A22-1333) and *Melobesia farinosa* (A15-802) in Venezuela (one dated 1903) that were sent to Foslie by Farlow in 1907. Additional information — not found during present study.
- Bock, ? (birth and death dates not found).** Gathered collections of *Lithothamnion solutum* f. *effusa* (B7-2139) and *Lithothamnion ruptile* (B16-2515) from the Dominican Republic in 1894 that was sent to Foslie from HBG. Additional information — not found during present study.
- Bohlin, Knut Harald (1869-1956).** Swedish phycologist and botanist. Additional information — Barnhart 1965a: 210; Stafleu & Cowan 1976: 253; Stafleu & Mennega 1993: 273-275. Listed as 'Bohlin' on most Foslie collection boxes.
- Boodle, Leonard Alfred (1865-1941).** English botanist who collected marine algae in South Africa in 1889-1890. Additional information — Barnhart 1965a: 219; Desmond 1994: 85; Stafleu & Mennega 1993: 323.
- Børgesen, Friedrich Christian Emil (1866-1956).** Danish phycologist and botanist. Additional information — Barnhart 1965a: 209; Lamy & Woelkerling 1998: 183-184; Stafleu & Cowan 1976: 248-249.
- Bornet, Jean Baptist Édouard (1828-1911).** French phycologist and botanist. Additional information — Barnhart 1965a: 223; Lamy & Woelkerling 1998: 84-87; Stafleu & Cowan 1976: 281-283; Stafleu & Mennega 1993: 343-347.
- Bory de Saint-Vincent, Jean-Baptist Geneviève Marcellin Baron de (1778-1846).** French militarist, naturalist and explorer. Additional information — Barnhart 1965a: 224; Lamy & Woelkerling 1998: 87-90; Stafleu & Cowan 1976: 284-286; Stafleu & Mennega 1993: 362-364.
- Bouvier, Eugène Louis (1856-1944).** French cryptogamist, pharmacist and entomologist. Additional information — Barnhart 1965a: 230; Lamy & Woelkerling 1998: 185.
- Bovallius, Karl (Carl) Erik Alexander (1849-1907).** Swedish zoologist who co-collected corallines with Kjellman in Sweden in 1870. Additional information — Baillie 1994a: 291; Boëthius 1925: 616-619.
- Bové, Nicolas (1802-1841).** French gardener, botanist and collector. Additional information — Barnhart 1965a: 232; Lamy & Woelkerling 1998: 185.
- Bowen, ? (birth and death dates not found).** Gathered one undated collection of *Lithophyllum moluccense* (A4-201) in Australia (no date) that was sent to Foslie from HBG. Additional information — not found during present study.
- Boye, P. (? -1912).** Norwegian phycologist. Additional information — Barnhart 1965a: 235 (name only); Stafleu & Mennega 1993: 403.

- Brauns, Dr. H. (birth and death dates not found).** Gathered one collection of *Lithophyllum retusum* (A22-1376) from Ghana in 1892 that was sent to Foslie from **HBG**. Additional information — Lawson & John 1982: 12.
- Bruce, C. Stanley (birth and death dates not found).** Gathered one undated collection of *Clathromorphum compactum* (C20-3440) from Nova Scotia that was sent to Foslie by A.H. Mackay. Additional information — not found during present study.
- Brumsert (Miss) (birth and death dates not found).** Australian collector. Gathered the undated type of *Melobesia coronata* f. *zonata* (A15-791) from South Australia that was sent to Foslie by Reinbold in 1902. Additional information — not found during present study.
- Bryant, Walter E. (1861-1905).** American ornithologist who participated in the 1890 expedition of the California Academy of Sciences to explore Baja California, Mexico. Additional information — Barnhart 1965a: 272; Setchell & Gardner 1924: 696.
- Butler, Eloise (birth and death dates not found).** Collected algae in Jamaica in 1891, 1894 & 1900 with her sister, Cora E. Pease. Additional information — Barnhart 1965a: 292; Collins 1901a: 233.
- Caldesi, Lodovico (1822-1884).** Italian politician, mycologist and collector. Additional information — Barnhart 1965a: 299; Lamy & Woelkerling 1998: 186; Stafleu & Cowan 1976: 425.
- Carpenter, C.C. (birth and death dates not found).** Gathered one collection of *Lithothamnion glaciale* (B9-2163) from Labrador in 1860 that was sent to Foslie by Farlow in 1900. Additional information — not found during present study.
- Chalon, Jean Charles Antoine (1846-1921).** Belgian phycologist and botanist. Additional information — Barnhart 1965a: 328; Stafleu & Cowan 1976: 481-482; Stafleu & Mennega 1997: 39-41.
- Cleve, P.T. (1840-1905).** Swedish phycologist. Additional information — Barnhart 1965a: 357; Stafleu & Cowan 1976: 511; Stafleu & Mennega 1997: 214-218. Recorded only as Cleve on Foslie herbarium box.
- Cleveland, Daniel (1839-1929).** American lawyer, naturalist and collector. Additional information — Barnhart 1965a: 358; Lamy & Woelkerling 1998: 189.
- Collett, Prof. Robert (1842-1913).** Norwegian zoologist. Additional information — Arntzen 2000: 244-245; Baillie 1994a: 396; Henriksen 1996: 432-433.
- Collins, Frank Shipley (1848-1920).** American accountant, phycologist and botanist. Additional information — Barnhart 1965a: 368; Lamy & Woelkerling 1998: 189-190; Stafleu & Cowan 1976: 527; Stafleu & Mennega 1997: 271-274.
- Collins, J. Franklin (1863-1940).** American botanist. Additional information — Barnhart 1965a: 368; Lanjouw & Stafleu 1954: 134; Stafleu & Mennega 1997: 275-276.
- Cooper, L.P. (probably Mrs Ellwood Cooper) (birth and death dates not found).** Gathered one undated collection of *Melobesia marginata* (B1-1626) from California that was sent to Foslie by Farlow in 1907. Additional information — Papenfuss 1976: 31.
- Cotton, Arthur Disbowe (1879-1962).** English botanist. Additional information — Barnhart 1965a: 386; Desmond 1994: 171; Lamy & Woelkerling 1998: 190-191; Stafleu & Mennega 1997: 408-410.
- Cranner, Barthold Hansteen (1867-1925).** See Hansteen, Barthold
- Crouan, Pierre Louis (1798-1871) and Crouan, Hippolyte Marie (1802-1871).** French pharmacists, phycologists and botanists. Additional information — Barnhart 1965a: 399; Lamy & Woelkerling 1998: 90-93; Stafleu & Cowan 1976: 569-570.
- Dahl, Ove Christian (1862-1940).** Norwegian botanist. Additional information — Barnhart 1965a: 411; Foslie 1895a: 38 (as Mr Kr. Dahl) (Kr. = konservator) (p. 10 in independently paginated offprint); Foslie 1902b: 19; Stafleu & Mennega 1998: 9-10.
- Dämel, Eduard. (1821-1860).** German plant collector. Additional information — Ducker 1981: 126; Lamy & Woelkerling 1998: 192; Lanjouw & Stafleu 1954: 151; Sonder 1871: 35.
- Danielsen, Daniel Andreas (1879-?).** Norwegian geologist and headmaster. Additional information — Bull & Jansen 1926: 258-259.

- Darwin, Charles Robert (1809-1882).** English evolutionary biologist. Additional information — Barnhart 1965a: 420; Desmond 1994: 193-194; Godley 1965: 161-164; Stafleu & Cowan 1976: 600; Stafleu & Mennega 1998: 77-79.
- Davidsson, Ølafur (1862-1903).** Collector of algae in Iceland. Additional information — Barnhart 1965a: 423. (1862-1903). Jónsson 1901: 128.
- Dawson, George Mercer (1849-1901).** Canadian Professor who sent Foslie one undated Faribault collection from Nova Scotia and an 1891 collection from the Aleutian Islands. Additional information — Barnhart 1965a: 428.
- De L'Isle Georges (birth and death dates not found).** French collector. Additional information — Lamy & Woelkerling 1998: 194.
- De Toni, Giovanni Batista (1864-1924).** Italian phycologist. Additional information — Barnhart 1965a: Lamy & Woelkerling 1998: 194-195; 448; Stafleu & Cowan 1976: 637-638; Stafleu & Mennega 1998: 240-248.
- Debray, Ferdinand Gustave (1854-1900).** French phycologist later based in Algeria. Additional information — Barnhart 1965a: 431; Stafleu & Mennega 1998: 130-132.
- Dickie, George (1812-1882).** Scottish botanist. Additional information — Barnhart 1965a: 452; Lamy & Woelkerling 1998: 99-100; Stafleu & Cowan 1976: 643-644; Stafleu & Mennega 1998: 285-287. Note: Foslie herbarium contains material from the Dickie herbarium that Foslie obtained from Kew Gardens.
- Diesing, Karl (Carl) Moritz (1800-1867).** Austrian botanist. Additional information — Barnhart 1965a: 454; Stafleu & Mennega 1998: 320-321.
- Diguet, Léon (1859-1926).** French naturalist and traveller. Additional information — Lamy & Woelkerling 1998: 101-102.
- Dircks, Johan (birth and death dates not found).** Gathered collections from collections from Spitsbergen (C20-3446, C22-3539) and Norway (C22-3538) in 1901. Additional information — not found during present study.
- Duerden, James Edwin (Dr.) (1869-1937).** Jamaica-based collector. Additional information — Barnhart 1965a: 477; Collins 1901a: 233.
- Dufour, Luigi (1830-1901).** French medical doctor and naturalist. Additional information — Barnhart 1965a: 478; Lamy & Woelkerling 1998: 103-105.
- Dusén, Per Karl Hjalmar (1855-1926).** Swedish botanist. Additional information — Barnhart 1965a: 486; Stafleu & Mennega 2000: 201-204. Recorded as Dusén on Foslie herbarium boxes.
- Eaton, Alfred Edwin (1844-1929).** British curate who participated in British Transit of Venus Expedition. Additional information — Desmond 1994: 226; Godley 1970: 57-59; Lamy & Woelkerling 1998: 685.
- Ekman, Frederik Laurentz (1830-1890).** Swedish chemist and botanist. Additional information — Barnhart 1965a: 502; Stafleu & Mennega 2000: 296-297.
- Elfving, Frederik Emil Volmar (1854-1942).** Finnish botanist based at the University of Helsingfors (Helsinki) who sent material collected by Lavander to Foslie. Additional information — Barnhart 1965a: 503; Stafleu & Cowan 1976: 740; Stafleu & Mennega 2000: 301-303.
- Engelhart, August Friedrich Gottfried (ca 1825-1907).** Australian medical doctor and collector. Additional information — Lamy & Woelkerling 1998: 197-198.
- Faribault, E.R. (birth and death dates not found).** Gathered one undated Nova Scotia collection of *Lithothamnion glaciale* that was sent to Foslie by Prof. George Dawson. Additional information — not found during present study.
- Farlow, William Gilson (1844-1919).** American phycologist and cryptogamist. Additional information — Barnhart 1965a: 527; Lamy & Woelkerling 1998: 198; Stafleu & Cowan 1976: 813-814.
- Faurot, Lionel (birth and death dates not found).** French collector. Additional information — Lamy & Woelkerling 1998: 199.
- Fawcett, William (Dr) (1851-1926).** Director of the Museum and the botanical garden of Jamaica (1886-1980). Sent one collection labelled *Goniolithon boergesenii* to F.S. Collins, who, in turn, presumably sent it to Foslie. Additional information — Barnhart

- 1965a: 530; Collins 1901a: 233; Desmond 1994: 242-243; Stafleu & Cowan 1976: 815-816.
- Ferlus, A. (birth and death dates not found).** French collector. Additional information — Lamy & Woelkerling 1998: 199.
- Finckh, Alfred Edmund (1866-1961).** English geologist and leader of the Royal Society of London Coral Reef Boring Expeditions to Funafuti. Additional information — Rodgers & Cantrell 1989: 393-403.
- Flahault, Charles Henri Marie (1852-1935).** French botanist. Additional information — Lamy & Woelkerling 1998: 200-201; Stafleu & Cowan 1976: 843.
- Forsstrand, Carl Vilhelm (1854-1928)** – Swedish zoologist, librarian and journalist. Additional information — Baillie 1994a: 583; Barnhart 1965a: 559; Grill 1966: 377-380.
- Foslie, Mikael Heggelund (1855-1909).** Norwegian phycologist. Additional information — Barnhart 1965a: 561; Lamy & Woelkerling 1998: 107-108; Stafleu & Cowan 1976: 863-864; Stafleu & Mennega 2000: 242-244.
- Gabriel, Joseph (1847-1922).** Australian pharmacist and naturalist. Additional information — Barnhart 1965b: 21; Lamy & Woelkerling 1998: 201.
- Gaimard, Joseph-Paul (1793-1858).** French naval surgeon and collector. Additional information — Barnhart 1965b: 23; Lamy & Woelkerling 1998: 202; Van Steenis-Kruseman 1950: 184.
- Gardiner, John Stanley (1872-?).** American zoologist and traveller. Additional information — Barnhart 1965b: 29; Lamy & Woelkerling 1998: 202; Sargeant 1980: 1061.
- Gardner, Nathaniel Lyon (1864-1937).** American phycologist. Additional information — Barnhart 1965b: 30; Lamy & Woelkerling 1998: 203; Stafleu & Cowan 1976: 916.
- Gattefossé, Jean (1899-1960 or 1961).** French businessman and collector. Gathered one 1929 collection (co-collected by Raphélis) from Morocco placed in Foslie herbarium after his death (1909) and thus never seen by Foslie. Additional information — Barnhart 1965b: 32; Lamy & Woelkerling 1998: 203.
- Gaudichaud-Beaupré, Charles (1789-1854).** French naval officer, pharmacist and botanist. Additional information — Barnhart 1965b: 33; Godley 1965: 151-152; Lamy & Woelkerling 1998: 203-204; Stafleu & Cowan 1976: 921-923; Van Steenis-Kruseman 1950: 186-187.
- Gibbs, Ralph Erwin (birth and death dates not found).** American botanist and poet. Additional information — Barnhart 1965b: 44; Lamy & Woelkerling 1998: 204.
- Ginzberger (probably August Ginzberger) (1873-1940).** Gathered one undated collection of *Lithophyllum racemus* (A22-1345) from Croatia that was sent to Foslie from **W**. Additional information — Barnhart 1965b: 51.
- Goes, Axel Theodor von (1835-1897).** Swedish government official and collector. Additional information — Barnhart 1965b: 58; Lamy & Woelkerling 1998: 205.
- Goltz di Carvalho, Augusto (birth and death dates not found).** Portuguese collector. Collected in Portugal 1880-1904. Additional information — Lanjouw & Stafleu 1957: 230.
- Gomont, Maurice Augustin (1839-1909).** French phycologist and gardener. Additional information — Barnhart 1965b: 63; Lamy & Woelkerling 1998: 205; Stafleu & Cowan 1976: 970.
- Gran, Haakon Hasberg (1870-1955).** Norwegian phycologist. Additional information — Barnhart 1965b: 74; Lamy & Woelkerling 1998: 205-206; Stafleu & Cowan 1976: 979.
- Gravier, Charles Joseph (1865-1937).** French zoologist and collector. Additional information — Lamy & Woelkerling 1998: 206.
- Greeley, A.W. (birth and death dates not found).** collected (jointly with R.E. Snodgrass) material of *Clathromorphum loculosum* (C21-3522) from the Pribilof Islands in 1896-1897 that was sent to Foslie by Setchell. Additional information — Setchell 1899: 590; Setchell & Gardner 1903: 174.
- Gueinzus, Wilhelm (1813-1874).** German pharmacist and collector, represented in the Foslie herbarium by three collections from South Africa, two obtained from **TCD** (A1-25, A2-73) and one from **W** (A1-26). Additional information — Silva et al. 1996: 4.

- Gundersen, Hans Jørgen, (1850 - death date not found).** Norwegian and Swedish consul in Melbourne, Australia (dates uncertain but included 1898 & 1899) who sent Foslie specimens he collected on a trip to Kerguelen in 1898. Additional information — Baillie 1994b: 692; Foslie 1899c: 10; Foslie 1899e: 24; Foslie 1908a: 210 (footnote).
- Gunnerus, Johan Ernst (1718-1773).** Norwegian clergyman, bishop of Nidaros and natural historian. Additional information — Barnhart 1965b: 101; Stafleu & Cowan 1976: 1024-1025.
- Hallier, Hans Johannes Gottfried (1868-1932).** German-born botanist who ultimately settled in The Netherlands. Additional information — Barnhart 1965b: 116; Stafleu & Cowan 1979: 32-33; Van Steenis-Kruseman 1950: 212-213; Zaneveld 1950a: 5. Recorded on lectotype box of *Lithophyllum kotschyianum* f. *subtilis* as Hallier.
- Hansteen, Barthold (1867-1925).** Norwegian botanist and phycologist who added Cranner to his surname but was known to Foslie by his older surname Hansteen. Additional information — Bull & Jansen 1926: 145-146; Foslie 1894c: 1; Foslie 1895a: 38.
- Hanna, Henry (1874- ?).** Irish surgeon and amateur phycologist, taught at the Royal College of Science (Dublin) 1897-1899 and accompanied Foslie on his trip to Roundstone. Additional information — Desmond 1994: 315; Foslie 1899a: 176.
- Hansen, Søren (1857-1946).** Collected in Greenland 1883-1888 and 1907. Additional information — Lanjouw & Stafleu 1957: 254.
- Harriot, Paul Auguste (1854-1917).** French phycologist and naturalist. Additional information — Barnhart 1965b: 127; Lamy & Woelkerling 1998: 112-114; Stafleu & Cowan 1979: 52-54.
- Hartz, Nicolaj Eg Kruse (1867-1937).** Danish palaeobotanist who collected extensively in Greenland. Additional information — Lanjouw & Stafleu 1957: 259; Lund 1959: 10; Rosenvinge 1893: 768; Rosenvinge 1898: 3-4; Sargeant 1980: 1208.
- Harvey, William Henry (1811-1866).** Irish phycologist and botanist. Additional information — Barnhart 1965b: 135; Desmond 1994: 324; Lamy & Woelkerling 1998: 114-117; Stafleu & Cowan 1979: 70-90.
- Harvey-Gibson, Robert John (1860-1929).** Scottish phycologist and botanist who sent several specimens with an unknown collector to Foslie. Additional information — Desmond 1994: 324-325; Stafleu & Cowan 1979: 90.
- Hauck, Ferdinand (1845-1889).** Austrian phycologist, telegraphist and naturalist. Additional information — Barnhart 1965b: 139; Lamy & Woelkerling 1998: 117-120; Stafleu & Cowan 1979: 100-101.
- Hausknecht, Heinrich Carl (1838-1903).** German botanist, explorer and collector. Additional information — Barnhart 1965b: 140; Lamy & Woelkerling 1998: 207-208; Stafleu & Cowan 1979: 103-104.
- Heller, Edmund (1875-1939).** Collected (jointly with Robert Snodgrass) the type of *Lithothamnion galapagense* Foslie during Hopkins-Stanford Expedition of 1898-1899 to the Galapagos Islands. Additional information — Farlow 1902: 98 (as *Melobesia corticiformis*); Foslie 1907a: 9; Vegter 1986: 921.
- Hemphill, Henry (1830-1917).** American collector and amateur malacologist based in San Diego, California. Additional information — Farlow 1877: 235.
- Henckel, Alexander Hermanowitsch (1872 – 1927).** Russian phycologist —.Additional information — Barnhart 1965b: 155.
- Henriques, Julio Augusto (1838-1928)** Portuguese botanist who sent specimens to Foslie but is not listed as a collector. Additional information — Barnhart 1965b: 158; Stafleu & Cowan 1979: 160-161.
- Henry, E. (birth and death dates not found)** French government merchant marine 'Sous-Commissaire' who collected specimens in Newfoundland. Additional information — Lamy & Woelkerling 1998: 208.
- Heydrich, Franz (1851-1911).** German phycologist. Additional information — Barnhart 1965b: 170; Lamy & Woelkerling 1998: 120-122; Stafleu & Cowan 1976: 187.
- Hill, J.C. (birth and death dates not found).** One undated collection from Bermuda, ex herb Farlow. Additional information — not found during present study.

- Hochstetter, Christian Ferdinand (1787-1860).** German botanist and clergyman. Additional information — Barnhart 1965b: 184; Stafleu & Cowan 1979: 220-222.
- Hoel, Adolf (1879-1964).** Geologist, polar explorer and politician who led a series of Norwegian state supported expeditions to Spitsbergen (1906-1928). Additional information — Arntzen 2001: 300-301; Henriksen 1997: 134-135.
- Holden, Isaac (1832-1903).** American phycologist. Additional information — Barnhart 1965b: 191; Stafleu & Cowan 1979: 254.
- Holm, Herman Theodor (1854-1932)** Danish-born botanist who settled in the United States; collected algae in Greenland in 1884. Additional information — Barnhart 1965b: 194; Rosenvinge 1893: 768; Stafleu & Cowan 1979: 258.
- Holmboe, Jens (1880-1943).** Norwegian botanist and collector. Additional information — Arntzen 2001: 346-347; Chaudri et al. 1972: 282; Henriksen 1997: 157.
- Holmes, Edward Morell (1843-1930).** English botanist and pharmacist. Additional information — Barnhart 1965b: 195; Desmond 1994: 350; Lamy & Woelkerling 1998: 209-210; Stafleu & Cowan 1979: 260-261.
- Holst, ? (birth and death dates not found).** Collected the type of *Lithothamnion boreale* (B10-2304) at Gjesvær, Norway in 1883. Additional information — not found during present study.
- Hombron, Jacques Bernard (1798-1852).** French naval surgeon who served on the L'Astrolabe during the Voyage of the Astrolabe and Zelée (1837-1840). Additional information — Barnhart 1965b: 198; Lamy & Woelkerling 1998: 210; Lanjouw & Stafleu 1957: 284; Stafleu & Cowan 1979: 266.
- Hooker, Joseph Dalton (1817-1911).** English botanist. Additional information — Barnhart 1965b: 200; Desmond 1994: 352; Godley 1965: 172-178; Lamy & Woelkerling 1998: 210-211; Stafleu & Cowan 1979: 267-293.
- Hooper, John (1802-1869).** British-born American phycologist. Additional information — Stafleu & Cowan 1979: 301.
- Hørring, Richardt (1875- ?).** Danish zoologist who collected some coralline in Iceland. Additional information — Engelstoft & Dahl 1937: 137; Jónsson 1901: 128.
- Houegger, Julia (birth and death dates not found).** Collected lectotype of *Lithophyllum pustulatum* f. *australis* (A17-1174) in the Canary Islands in 1890 that was sent to Foslie by F.S. Collins in 1904. Additional information — Setchell 1925: 57.
- Howe, Marshall Avery (1867-1936).** American phycologist and botanist. Additional information — Barnhart 1965b: 211; Lamy & Woelkerling 1998: 122-124; Stafleu & Cowan 1979: 347-348.
- Huggins, G.M. (birth and death dates not found).** Gathered one undated collection of *Lithothamnion glaciale* (B9-2196) from Nova Scotia that was sent to Foslie by A.K. Mackay. Additional information — not found during present study.
- Huitfeldt- Kaas, Valentin Wilhelm Hartvig (1867-1941).** Norwegian zoologist and fisheries biologist. Additional information — Arntzen 2001: 414.
- Ihering, Hermann von (1850-1930).** German-born collector who lived in Brazil for a period beginning in 1880 and was Director do Museo Paulista and collected the types of *Lithothamnion brasiliense* (C15-3209) and *Lithothamnion brasiliense* f. *heteromorpha* (C16-3262) in 1896. Additional information — Barnhart 1965b: 227; Foslie 1900a: 6.
- Isachsen, Gunnar Ingvald (1868-1939).** Norwegian cartographer, army officer and polar explorer who participated in the Second Norwegian Polar Expedition on the Fram (1898-1902). Additional information — Arntzen 2002: 43-44; Henriksen 1997: 613; Sverdrup 1904a: 3.
- Jadin, Fernand (1862- ?).** French botanist and collector. Additional information — Lamy & Woelkerling 1998: 212.
- Jessen, Axel Hans (1868-1952).** Danish geologist who collected in Greenland in 1894. Additional information — Bech 1981a: 384-385; Chaudri et al. 1972: 319; Rosenvinge 1898: 4.
- Johansen, Anders Cornelius Jacob (1867-1931).** Danish zoologist. Additional information — Bech 1981a: 420; Jónsson 1901: 128.

- Johnsen, Nils (Capt.) (1838-1913).** Norwegian collector who gathered material in Spitsbergen. Additional information — Foslie 1895a: 38 (p. 10 in independently paginated off-print).
- Johnson, H.P. (birth and death dates not found).** Gathered the type of *Lithothamnion montereyicum* from California in 1897 that was sent to Foslie by Setchell. Additional information — not found during present study.
- Johnson, Thomas (1863-1954).** Irish botanist who facilitated Foslie's trip to Roundstone. Additional information — Desmond 1994: 386; Foslie 1899a: 175.
- Johnstrup, Chr. (birth and death dates not found).** One 1875 Mediterranean collection labelled *Lithothamnion philippii* (B16-2443) that Foslie obtained from C. Additional information — not found during present study.
- Jousseau, Félix Pierre (1835-1921).** French medical doctor and naturalist. Additional information — Lamy & Woelkerling 1998: 214.
- Jónsson, Helgi (1867-1925)** Icelandic phycologist who collected in Iceland and the Faeroe Islands. Additional information — Børgesen 1902: 342; Jónsson 1901: 129; Stafleu & Cowan 1979: 460.
- Judd, John Wesley (1840-1916).** English geologist. Additional information — Foslie 1899b 3; Sargeant 1980: 1408.
- Jukes, J.B. (1811-1869).** English geologist and geomorphologist. Additional information — Sargeant 1980: 1409.
- Kaiser, A. (18??-1930).** Collected undated type of *Lithothamnion fosliei* Heydrich (A14-742) in Egypt. Additional information — Chaudri et al. 1972: 388.
- Keenan, Marvin Francis (1901-1931).** American palaeontologist. Additional information — Barnhart 1965b: 276; Lamy & Woelkerling 1998: 214.
- Kjellman, Frans Reinhold (1846-1907).** Swedish phycologist. Additional information — Barnhart 1965b: 297; Lamy & Woelkerling 1998: 124-126; Stafleu & Cowan 1979: 559-560.
- Knutsen, Bernt (birth and death dates not found).** Norwegian fisherman who gathered one 1892 collection of *Lithothamnion granii* f. *reducta* (C10-3141). Additional information — not found during present study.
- Kotschy, Carl Georg Theodor (1813-1866).** Austrian botanist and explorer. Additional information — Barnhart 1965b: 315; Stafleu & Cowan 1979: 655-657.
- Krebs, Henrik Johannes (1821-1907).** Collector of algae in Danish West Indies [= U.S. Virgin Islands]; specimens obtained by Foslie from C. Additional information — Børgesen 1913: 4; Chaudri et al. 1972: 387.
- Krone, Hermann (birth and death dates not found).** German photographer and member of shore party of a German Expedition to the Auckland Islands as an adjunct to the German Transit of Venus Expedition 1874-1875. Krone's collections dealt with by Rabenhorst (1878). Additional information — Chaudri et al. 1972: 389; Godley 1970: 61-62; Hay et al. 1985: 5-6; Headland 1989: 196.
- Kruuse, Christian (1867- ?).** Danish botanist and collector who gathered material in Greenland and Jan Mayen that was sent to Foslie from C. Additional information — Christensen 1913: 208; Jónsson 1904: 1-3; Lund 1959: 10.
- Kuckuck, Ernst Herman Paul (1866-1918).** German phycologist. Additional information — Barnhart 1965b: 324; Lamy & Woelkerling 1998: 126-131; Stafleu & Cowan 1979: 681-682.
- Kükenthal, Prof. (possibly Georg Kükenthal) (1864-1955).** German clergyman and botanist who apparently gathered the undated type of *Lithothamnion moluccense* (A4-202) that Foslie obtained from the herbarium of M. Möbius. Additional information — Barnhart 1965b: 325; Stafleu & Cowan 1979: 684.
- Kupfer (birth and death dates not found).** Listed on one 1891 collection of *Lithothamnion irregulare* (C16-3263) from Sao Thome, ex HBG. No initials on box. Additional information — not found during present study.

- Kuroiwa, Hisashi (birth and death dates not found).** Gathered one undated collection of *Mastophora macrocarpa* (A1-35) from Japan that was sent to Foslie from B. Additional information — Barnhart 1965b: 328
- Kützing, Friedrich Traugott (1807-1893).** German phycologist. Additional information — Barnhart 1965b: 325; Lamy & Woelkerling 1998: 215; Stafleu & Cowan 1979: 684-689.
- Kylin, Johan Harald (1879-1949).** Swedish phycologist. Additional information — Barnhart 1965b: 330; Stafleu & Cowan 1979: 709-710.
- Lagerheim, Nils Gustaf (1860-1926).** Swedish phycologist and microbiologist. Additional information — Barnhart 1965b: 334; Stafleu & Cowan 1979: 722-724.
- Laing, Robert Malcolm (1865-1941).** New Zealand botanist. Additional information — Barnhart 1965b: 336; Stafleu & Cowan 1979: 727;
- Lamare-Piquot, Augustin Christophe (1785-1873).** French pharmacist and botanist. Additional information — Barnhart 1965b: 337; Lamy & Woelkerling 1998: 215.
- Lassen, Holgar Jørgen (1868-1897).** Danish collector. Additional information — Barnhart 1965b: 348; Børgesen 1913: 4; Rosenvinge 1893: 768
- Lea, Thomas Simcox (1857-1939).** British clergyman and collector who participated in H.N. Ridley's expedition to Fernando de Noronha Island (Brazil) in 1887. Additional information — Desmond 1994: 419.
- Lebel, Jacques Engène (1801-1878).** French collector. Additional information — Lamy & Woelkerling 1998: 216.
- LeJolis, Auguste François (1823-1904).** French businessman and phycologist. Additional information — Barnhart 1965b: 366; Lamy & Woelkerling 1998: 137-139; Stafleu & Cowan 1979: 831-833.
- Le Maire, Abraham Louis (1836-1913).** Danish army officer and then Chairman of Denmark's Geological Survey. Additional information Baille 1994b: 1364; Bech 1981b: 673-674.
- Lenormand, Sébastain René (1796-1871).** French lawyer and botanist. Additional information — Barnhart 1965b: 369; Lamy & Woelkerling 1998: 142-144; Stafleu & Cowan 1979: 843-844. Note: Foslie herbarium contains material from the Lenormand herbarium that Foslie obtained from LeJolis.
- Levander, Kaarlo Mainio (1867- ?).** Collected specimens at Massanah, Eritrea in 1894-1895 that were sent to Foslie by Elfving. Additional information — Barnhart 1965b: 374.
- Levi-Morenos, David (1863- ?).** Italian botanist. Additional information — Barnhart 1965b: 375; Lamy & Woelkerling 1998: 217.
- Levinson, Georg Marius Reynald/Reinald (1850-1914).** Danish zoologist. Additional information — Baillie 1994c: 1248; Bech 1981c: 16.
- Lichtenstern, Franz B. von (1833-1901).** Austrian collector whose collections are in W. Additional information — Koster 1969: 555?
- Lippert, Fl. (birth and death dates not found).** Gathered one collection of *Lithophyllum marlothii* (A4-197) from South Africa in 1896 that was sent to Foslie from HBG. Additional information — not found during present study.
- Lönnberg, Axel Johan Einar (1865-1942).** Swedish zoologist based at Uppsala. Additional information — Baillie 1994c: 1310; Lager-Kromnow 1984: 554-559.
- Lundbeck, William (1863-1941).** Danish watchmaker then zoologist who collected coralline material in Iceland in 1892 and 1893 that was deposited in C. Foslie obtained his material from Copenhagen. Additional information — Bech 1981c: 180-181; Jónsson 1901: 128.
- Lundberg, Nils Rudolf Ingewald (1844-1902).** Swedish zoologist. Additional information — Lager-Kromnow 1984: 201-202.
- Lundberg, R.** See previous entry.
- Lyman, T. (birth and death dates not found).** Gathered two undated collections of *Lithothamnion tophiforme* f. *sphaerica* (B9-2256, C12-3181) in Maine USA that were sent to Foslie by Farlow in 1900. Additional information — not found during present study.

- MacKay, Alexander Howard (1848-1929)** Canadian botanist and educator. Additional information — Barnhart 1965b: 426; Stafleu & Cowan 1981: 225.
- Magnus, Paul Wilhelm (1844-1914)**. German botanist. Additional information — Barnhart 1965b: 436; Lamy & Woelkerling 1998: 218; Stafleu & Cowan 1981: 245-247.
- Malard, André Eugène Frédéric (1859?- 1914)**. French marine biologist. Additional information — Lamy & Woelkerling 1998: 218.
- Maltby, Miss H.B. (birth and death dates not found)**. Collector of algae at the Chatham Islands. Maltby's collection dealt with by Cotton (1907). Additional information — Nelson et al. 1991: 10; Vegter 1976: 497
- M'Calla (McCalla), William (1814-1849)** Irish phycologist and schoolmaster. Additional information — Barnhart 1965b: 418; Desmond 1994: 448; Stafleu & Cowan 1981: 212.
- McLeod, A.C. (birth and death dates not found)**. Canadian collector. Gathered one undated collection of *Lithothamnion glaciale* (B9-2211) in Canada that was sent to Foslie by A.H. Mackay A.H. Additional information — not found during present study.
- McLeod, D.F. (birth and death dates not found)**. Canadian collector. Gathered one undated collection of *Lithothamnion glaciale* (B9-2210) in Canada that was sent to Foslie by A.H. Mackay A.H. Additional information — not found during present study.
- Michaelsen, M. (birth and death dates not found)**. Gathered one collection of *Lithothamnion heterocladum* (C2-2921) from Chile that was sent to Foslie from PC. Additional information — not found during present study.
- Miliarakis, Spyridion (x-1919)**. Greek botanist. Additional information — Barnhart 1965b: 489; Stafleu & Cowan 1981: 488.
- Milligan, Joseph (1807 – ca 1883)**. Australian surgeon and administrator. Additional information — Barnhart 1965b: 492; Lamy & Woelkerling 1998: 221.
- Miyabe, K. (1860-1951)**. Japanese botanist. Additional information — Barnhart 1965b: 498; Stafleu & Cowan 1981: 527-528.
- Möbius [Moebius], Martin August Johannes (1859-1946)**. German botanist. Additional information — Barnhart 1965b: 500; Stafleu & Cowan 1981: 531.
- Möller, A.F. (birth and death dates not found)**. Collected algae on São Thomé Island in 1885. Additional information — Steentoft 1967: 100.
- Möller, ?. (birth and death dates not found)**. Gathered one undated collection of *Lithothamnion tophiforme* from Iceland that was sent to Foslie from C. Additional information — not found during present study.
- Møller [Möller], Hjalmar August (1866-1941)**. Swedish botanist and palaeontologist based at the Teachers College in Kalmar Sweden until 1917 and then at the Riksmuseum in Stockholm. Additional information — Barnhart 1965b: 500; Lamy & Woelkerling 1998: 222; Nilsén 1989: 240-242; Sargeant 1980: 1736; Stafleu & Cowan 1981: 534-535; Zaneveld 1950a: 5.
- Monks, Sarah Preston (birth and death dates not found)**. American collector. Additional information — Barnhart 1965b: 505.
- Mortensen, Ole Theodor Jensen (1862-1952)**. Danish zoologist who collected algae in the Danish West Indies and Mauritius. Additional information — Børgesen 1913: 4; Børgesen 1940: 1; Van Steenis-Kruseman 1950: 371.
- Mosley, Henry Nottidge (1844-1891)**. English zoologist and collector. Additional information — Barnhart 1965b: 519; Desmond 1994: 502; Godley 1970: 51-55; Lamy & Woelkerling 1998: 222-223.
- Mouchez, Amédée Ernest Barthélémy (1821-1892)**. French naval officer, astronomer and traveller. Additional information — Lamy & Woelkerling 1998: 223.
- Mueller, Ferdinand Jacob Heinrich (Baron) von (1825-1896)**. German-born Australian botanist. Additional information — Barnhart 1965b: 524; Lamy & Woelkerling 1998: 224; Stafleu & Cowan 1981: 615-625.
- Munier-Chalmas, Charles-Philippe-Ernest (1843-1903)**. French geologist and botanist. Additional information — Barnhart 1965b: 528; Lamy & Woelkerling 1998: 225; Sargeant 1980: 1765.

- Murray, George Robert Milne (1858-1911).** British phycologist and cryptogamist; who sent specimens to Foslie from **BM** but is not listed as a collector. Additional information — Barnhart 1965b:532; Desmond 1994: 508; Foslie 1900g: 3; Stafleu & Cowan 1981: 668-669.
- Nauman, Friedrich Carl (1841-1902).** German naval surgeon and collector who participated in the German Transit of Venus Expedition 1874-1876. Additional information — Barnhart 1965b: 540; Godley 1970: 59-61; Lamy & Woelkerling 1998: 225; Van Steenis-Kruseman 1950: 380; Zaneveld 1950a: 4.
- Nemetz, J. (birth and death dates not found).** Gathered collections in Greece (1894) and Turkey (1896-1897). Additional information — not found during present study.
- Nichols, Maurice Barstow (birth and death dates not found).** American phycologist who published two papers (Nichols 1908, 1909) on California corallines and sent specimens to Foslie. Additional information — Foslie 1909c: 15; Vegter 1983: 593.
- Nordgaard (Nordgård after 1917), Ole (1862-1931).** Norwegian zoologist and hydrographer who was a curator of zoology at the Royal Norwegian Society of Sciences and Letters in Trondheim and manager of the Trondhjem biological station from 1906. Additional information — Arntzen 2003: 30-31; Henriksen 1998a: 202.
- Norman, Johannes Musæus (1823-1903).** Norwegian botanist, forester, and army surgeon. Additional information — Arntzen 2003: 49-50; Baille 1994c: 1539; Stafleu & Cowan 1981: 771-773.
- Norum, E. (birth and death dates not found).** Norwegian teacher and collector based in Haugesund. Additional information — Foslie 1904a: 22.
- Ohlendorff, W. von (birth and death dates not found).** Gathered the type of *Archaeolithothamnion chilense* (C19-3375) from Chile in 1896 and from one undated collection of *Goniolithon frutescens* (A12-643) from Indonesia that were sent to Foslie from **HBG**. Additional information — not found during present study.
- Oliver, A. (birth and death dates not found).** Gathered one 1872 collection of *Lithothamnion capense* (B17-2535) from South Africa that was sent to Foslie by Farlow in 1907. Additional information — not found during present study.
- O'Reilly, ? (birth and death dates not found).** Sent one undated collection of *Lithophyllum incrustans* (A7-366) from Ireland to Foslie; collector unknown. Additional information — not found during present study.
- Orbigny, Alcide Dessalines d' (1802-1857).** French palaeontologist, traveller and zoologist. Additional information — Barnhart 1965c: 31; Lamy & Woelkerling 1998: 226; Sargeant 1980: 1821-1823; Stafleu & Cowan 1981: 842.
- Ørsted (Ørsted), Anders Sandø (1816-1872).** Danish botanist and zoologist who travelled to Central America (1845-1848). One collection from the Danish West Indies sent from **C**. Additional information — Barnhart 1965c: 22; Stafleu & Cowan 1981: 808-812.
- Ostenfeld, Carl Emil Hansen (1873-1931).** Danish phycologist; botanist on the Danish In-golf Expedition (1895-1896). Additional information — Barnhart 1965c: 36; Lamy & Woelkerling 1998: 226; Rosenvinge 1898: 4; Stafleu & Cowan 1981: 854-856.
- Östergren, Artur Hjalmar (1869-1935).** Swedish zoologist. Additional information — not found during present study.
- Osterhout, Winthrop John. (1871-1964).** Gathered one collection of *Melobesia farinosa* (A15-8590 from Massachusetts USA in 1895 (jointly with W.A. Setchell. Additional information — Barnhart 1965c: 36.
- Ostroumow, ? (birth and death dates not found)** Russian collector based in Kazanam who collected the type of *Melobesia caspica* (A16-999). Additional information — Foslie 1900e: 133 (footnote 1).
- Oxaal, John Thomas Fearnley (1887-1942).** Norwegian geologist. Additional information — Sargeant 1980: 1835.
- Øyen, Peter Annæus (1863-1932).** Norwegian geologist. Additional information — Anker & Kaldhol 1983: 481-483; Barnhart 1965c: 22; Henriksen 1998c: 634; Sargeant 1980: 1836.

- Paessler, ? von (birth and death dates not found).** Gathered collections from Chile, Argentina & Cape Verde Islands between 1888 & 1904, all sent to Foslie from **HBG**. Additional information — not found during present study.
- Painter, William Hunt (1835-1910).** British clergyman and botanist. Additional information — Desmond 1994: 532; Stafleu & Cowan 1983: 9-10; Vegter 1983: 636.
- Palibin, Ivan (Johan) Vladimirovic (1872-1949).** Russian botanist who collected corallines near Bergen Norway in 1903. Additional information — Stafleu & Cowan 1983: 14; Vegter 1983: 638.
- Paulsen, Ove Vilhelm (1874-1947).** Danish phycologist. Additional information — Barnhart 1965c: 57; Lamy & Woelkerling 1998: 228; Stafleu & Cowan 1983: 113-114.
- Pease, Cora E. (birth and death dates not found).** Collected algae in Jamaica in 1891, 1894 & 1900 with her sister, Eloise Butler. Additional information — Barnhart 1965c: 61; Collins 1901a: 233.
- Penhallow, David Pearce (1854-1910).** American-born botanist and palaeobotanist based in Canada from 1883 onwards. Additional information — Barnhart 1965c: 66; Stafleu & Cowan 1983: 152.
- Petersen, J. (birth and death dates not found).** Gathered the type of *Goniolithon versabile* (A10-540) from Japan in 1882 that Foslie obtained from the herbarium of F.R. Kjellman. Additional information — not found during present study, but it is unclear whether this J. Petersen is the same person as Johan Petersen (see below).
- Petersen, Johan (birth and death dates not found).** Greenland colony manager (kolonibestyrrer); collected at Sukkertoppen, Greenland. Additional information — Rosenvinge 1893: 768, 772; Rosenvinge 1898a: 13.
- Phillips, Reginald William (1854-1926).** British botanist. Additional information — Barnhart 1965c: 82; Stafleu & Cowan 1983: 243.
- Plate, ? (Prof. Dr.) (birth and death dates not found).** German zoologist who collected algae at Tor on the Sinai Peninsula in 1901-1902. Additional information — Papenfuss 1968: 6; Reinbold 1903.
- Pöppig, Eduard Friedrich (1798-1868).** German zoologist and botanist, to whom the South African collections of Gueinzus were sent. Additional information — Barnhart 1965c: 94 (as Poeppig); Silva et al. 1996: 4; Stafleu & Cowan 1983: 310-312 (as Poeppig); Vegter 1983: 693 (as Poeppig).
- Printz, [Karl] Henrik [Oppegaard] (1888-1978).** Norwegian botanist. Additional information — Barnhart 1965c: 111; Stafleu & Cowan 1983: 406-407.
- Pruvot-Chalon, ? (birth and death dates not found).** Sent material collected in 1903-1905 in the Balearic Islands to Foslie. Additional information — not found during present study, but Navarro & Uriarte 1945: 297 list Pruvot as a collector.
- Pulteney, Richard (1730-1801).** British physician and naturalist. Additional information — Barnhart 1965c: 115; Stafleu & Cowan 1983: 442-444.
- Quintas, Francisco (birth and death dates not found).** Gathered the undated type of *Lithophyllum aequinoctiale* (A28-1587) from São Tomé that was sent to Foslie from **COI**. Additional information — Barnhart 1965c: 120. Steentoft 1967: 100.
- Racovitza, Emil G. (1868-1947).** Romanian scientist who collected plants on the Belgian Antarctic Expedition 1897-1899. Additional information — Vegter 1983: 56.
- Ramage, George A. (1864-1933).** Scottish-born collector. Collected on H.N. Ridley's expedition to Fernando de Noronha Island (Brazil) in 1887. Additional information — Barnhart 1965c: 125; Desmond 1994: 571.
- Raphélis, A. (birth and death dates not found).** French collector. Gathered one 1929 collection (co-collected by Gattefossé) from Morocco that was placed in Foslie's herbarium after his death (1909) and thus never seen by Foslie. Additional information — not found during present study.
- Reichenbach, Heinrich Gustav (1824-1889).** German botanist; director HBG 1863-1889. Additional information — Barnhart 1965c: 140; Stafleu & Cowan 1983: 689-693.
- Rechinger, Karl (1867-1952).** Austrian botanist. Additional information — Barnhart 1965c: 134; Stafleu & Cowan 1983: 616-618.

- Reinbold, Theodor (x-1918)**. German phycologist and botanist. Additional information — Barnhart 1965c: 141; Stafleu & Cowan 1983: 698.
- Ridley, Henry Nicholas (1855-1956)**. British botanist, based at Fernando do Noronha Island, Brazil in 1887 where he collected (with Lea and Ramage) the type of *Lithothamnion erubescens*. Additional information — Barnhart 1965c: 155; Desmond 1994: 583; Stafleu & Cowan 1983: 786-788.
- Robert, Louis Eugène (1806- ?)**. French medical doctor and geologist. Additional information — Lamy & Woelkerling 1998: 231.
- Robertson, Dr. David (1806-1896)**. Scottish merchant and naturalist. Additional information — Barnhart 1965c: 163; Desmond 1994: 586; Sargeant 1980: 1988-1989. Stafleu & Cowan 1983: 811.
- Robertson, Hannah (birth and death dates not found)**. Wife of David Robertson; collected material in Scotland and the Republic of Ireland and sent a number of specimens to Foslie. Additional information — not found during present study.
- Robinson, Charles Budd Jr. (1871-1913)**. Canadian botanist at times associated with NYBG and based in the Philippines in 1908-1911. Additional information — Barnhart 1965c: 164; Desmond 1994: 587; Stafleu & Cowan 1983: 815-816.
- Rodriguez y Femenias, Juan Joaquin (1839-1905)**. Spanish botanist, businessman and politician. Additional information — Barnhart 1965c: 168; Lamy & Woelkerling 1998: 231; Stafleu & Cowan 1983: 832-833.
- Rosenvinge, Lauritz Kolderup (1858-1939)**. Danish phycologist and botanist. Additional information — Barnhart 1965c: 179; Lamy & Woelkerling 1998: 156-158; Stafleu & Cowan 1983: 894-898.
- Rothpletz, [Friedrich] August (1853-1918)** German palaeontologist. Additional information — Barnhart 1965c: 183; Sargeant 1980: 2006; Stafleu & Cowan 1983: 927-928.
- Rousson, Henri (birth and death dates not found)**. French collector and traveller who collected specimens with A. Willems in Tierra del Fuego during a mission supported by the French government. Additional information — Godley 1970: 83-84; Lamy & Woelkerling 1998: 232.
- Ruggles, A.G. (birth and death dates not found)**. Canadian collector who gathered collections from Bay of Fundy, Nova Scotia in 1897 that were sent to Foslie by A.H. Mackay. Additional information — not found during present study.
- Ryberg, C. (1854-1929)**. Danish botanist; collected marine algae in Greenland. Additional information — Rosenvinge 1893: 768; Vegter 1983: 802.
- Saunders, De Alton (1870-1940)**. American botanist. Additional information — Barnhart 1965c: 214; Stafleu & Cowan 1985: 65-66.
- Sauvageau, Camille (1861-1936)**. French phycologist and botanist. Additional information — Barnhart 1965c: 215; Lamy & Woelkerling 1998: 158-160; Stafleu & Cowan 1985: 75-77.
- Schauinsland, Hugo Hermann (1857- ?)**. German zoologist and Polynesian explorer. Algae collected in the Pacific dealt with by Reinbold (1899a). Additional information — Barnhart 1965c: 222; Nelson et al. 1991: 10.
- Schiller, Josef (1877-1960)**. Bohemian-born Austrian phycologist and hydrobiologist. Additional information — Barnhart 1965c: 225; Stafleu & Cowan 1985: 158-159.
- Schimper, Andreas Franz Wilhelm (1856-1901)**. German botanist who participated in the Valdivia expedition [= German Deep-Sea Expedition 1898-1899]. Additional information — Barnhart 1965c: 225; Stafleu & Cowan 1985: 160-163.
- Schmidt, [Ernst] Johannes (1877-1933)**. Danish botanist, bacteriologist, and oceanographer. Additional information — Barnhart 1965c: 231; Stafleu & Cowan 1985: 252-254.
- Schmidt-Nielsen, Sigvald (birth and death dates not found)**. Norwegian collector based in Bergen. Additional information — Foslie 1895a: 38 (p. 10 in independently paginated offprint)
- Schreiner, Kristian Emil (1874-1957)**. Norwegian anthropologist, anatomist and collector. Additional information — Baillie 1994d: 1910; Foslie 1895a: 38 (p. 10 in independently paginated offprint); Henriksen 1998b: 92; Jansen & Svendsen 1954: 529-533

- Setchell, William Albert (1864-1943).** American phycologist and botanist. Additional information — Barnhart 1965c: 262; Lamy & Woelkerling 1998: 161-163; Stafleu & Cowan 1985: 528-535.
- Seurat, Léon Gaston (1872 - ?).** French zoologist and botanist. Additional information — Barnhart 1965c: 263; Stafleu & Cowan 1985: 539; Lamy & Woelkerling 1998: 233.
- Simmons, Herman Georg (1866-1943).** Swedish botanist who participated in the Second Norwegian Polar Expedition in the Fram (1898-1902) and collected in the Faeroe Islands. Additional information — Barnhart 1965c: 279; Børgesen 1902: 341-342; Stafleu & Cowan 1985: 606-608; Sverdrup 1904a: 3.
- Skottsberg, Carl Johan Fredrik (1880-1963).** Swedish phycologist and botanist. Additional information — Barnhart 1965c: 285; Lamy & Woelkerling 1998: 234; Stafleu & Cowan 1985: 627-639.
- Snodgrass, Robert Evans (1875-1962).** Collected (jointly with Edmund Heller) the type of *Lithothamnion galapagense* Foslie (B1-1621) during Hopkins-Stanford Expedition of 1898-1899 to the Galapagos Islands. Also collected (jointly with A.W. Greeley) a specimen of *Clathromorphum loculosum* (C21-3522) from the Pribilof Islands. Additional information — Farlow 1902: 98; Foslie 1907a: 9; Vegter 1986: 921.
- Snyder, Mary S (Mrs E. Snyder) (birth and death dates not found).** American collector. Additional information — Lamy & Woelkerling 1998: 234.
- Sollas, William Johnson. (1849-1936).** British geologist. Additional information — Desmond 1994: 642; Sargeant 1980: 2140-2141.
- Solms Laubach, Henri Herman Maximilian Carl Ludwig Friedrich zu Comte de (1842-1915).** German-born, French-based phycologist and botanist. Additional information — Barnhart 1965c: 301; Lamy & Woelkerling 1998: 164-166; Sargeant 1980: 2141-2142; Stafleu & Cowan 1985: 729-735.
- Sommerfelt, Søren Christain (1794-1838).** Norwegian clergyman and botanist, from whose herbarium Foslie obtained two collections (B17-2536, B17-2539) labelled *Lithothamnion capense*. Additional information — Barnhart 1965c: 302; Koster 1969: 557; Stafleu & Cowan 1985: 736-7.
- Sørensen, Pastor P.H. (birth and death dates not found).** Collected algae in Greenland in 1894 & 1895. Additional information — Rosenvinge 1898: 4.
- Stanford, Edward Charles Curtis (? -1899)** Scottish pharmacist who wrote on the economic uses of algae. Additional information — Desmond 1994: 649.
- Steincke (birth and death dates not found).** Gathered one undated collection of *Lithothamnion glaciale* (B9-2232) from Iceland that was sent to Foslie from C. Additional information — not found during present study.
- Stuhlmann, Franz Ludwig (1863-1928).** German zoologist and collector. Additional information — Barnhart 1965c: 343; Stafleu & Cowan 1986: 59-60.
- Surton, W.H (birth and death dates not found).** Presented the undated type of *Lithothamnion brachycladum* (C16-3249) from St Helena Island to **BM** and sent in turn from **BM** to Foslie. Additional information — not found during present study.
- Svedelius, Nils Eberhard (1873-1960).** Swedish phycologist. Additional information — Barnhart 1965c: 350; Stafleu & Cowan 1986: 106-109.
- Swenander, Carl Gustaf (1874-1953).** Swedish zoologist and fisheries biologist who was based at the Museum of the Royal Norwegian Society of Sciences and Letters in Trondheim from 1901 to 1909. Additional information — not found during present study.
- Tecket, C. (birth and death dates not found).** Gathered one collection of *Melobesia farinosa* (A15-860) from Egypt in 1905 that was sent to Foslie by Wille. Additional information — not found during present study.
- Tellam, Richard Vercoe (1826-1908).** British farmer and naturalist in Cornwall. Additional information — Barnhart 1965c: 366; Desmond 1994: 675; Stafleu & Cowan 1986: 206.
- Thaxter, Roland (1858-1932).** American botanist. Additional information — Barnhart 1965c: 370; Lamy & Woelkerling 1998: 236; Stafleu & Cowan 1986: 232-236.

- Thuret, Gustave Adolphe (1817-1875).** French phycologist. Additional information — Barnhart 1965c: 382; Lamy & Woelkerling 1998: 169-172; Stafleu & Cowan 1986: 335-337.
- Tignet (birth and death dates not found).** Gathered one undated collection of *Mastophora lamourouxii* (A1-32) from Victoria Australia. Additional information — not found during present study.
- Tilden, Josephine Elizabeth (1869-1957)** American phycologist. Additional information — Barnhart 1965c: 384; Lamy & Woelkerling 1998: 236; Stafleu & Cowan 1986: 351-353.
- Trails, George William (1836-1897).** British phycologist. Additional information — Barnhart 1965c: 397; Desmond 1994: 690; Stafleu & Cowan 1986: 430-431.
- Turquet, Jean (1867- ?).** French naturalist. Additional information — Barnhart 1965c: 384; Lamy & Woelkerling 1998: 236-237.
- Tyson, William (1851-1920).** Jamaica-born South African teacher and plant collector. Additional information — Barnhart 1965c: 412; Desmond 1994: 699; Stafleu & Cowan 1986: 561-562.
- Ullmann, Axel Conradin (1840-1923).** Norwegian school head-master, who sent specimens to Foslie but is not listed as a collector. Additional information — Foslie 1895a: 38 (p. 10 in independently paginated offprint).
- Van Heurck, Henri Ferdinand (1838-1909)** Belgian phycologist and botanist. Additional information — Barnhart 1965c: 424; Lamy & Woelkerling 1998: 237; Stafleu & Cowan 1986: 666-669.
- Vanhöffen, Ernst (1858-1918)** German zoologist and botanist. Additional information — Barnhart 1965c: 424; Lamy & Woelkerling 1998: 238; Stafleu & Cowan 1986: 669-670.
- Vickers, Anna (1852-1906).** French phycologist. Additional information — Barnhart 1965c: 434; Desmond 1994: 705-706; Lamy & Woelkerling 1998: 238; Stafleu & Cowan 1986: 724-725.
- Vilke, Johan August (1868- ?).** Swedish secondary school teacher who collected some corallines in Norway in 1894 and 1897. Additional information — not found during present study.
- Voeltzkow, Alfred (1860- ?)** German zoologist and traveller. Additional information — Barnhart 1965c: 441; Stafleu & Cowan 1986: 765-766
- von Ohlendorff, W.** See Ohlendorff, W. von.
- Waghorne, Arthur Charles (1851-1900).** British missionary and botanist. Additional information — Barnhart 1965c: 447; Desmond 1994: 709; Foslie 1899e: 24; Stafleu & Cowan 1988: 8.
- Warburg, Otto (1859-1938)** German botanist who travelled extensively. Additional information — Barnhart 1965c: 458; Stafleu & Cowan 1988: 59-63; Van Steenis-Kruseman 1950: 559-561; Zaneveld 1950a: 5.
- Weber-van Bosse, Anna Antoinette (1852-1942).** Dutch phycologist. Additional information — Barnhart 1965c: 468; Lamy & Woelkerling 1998: 172-174; Stafleu & Cowan 1988: 131-134; Van Steenis-Kruseman 1950: 564; Zaneveld 1950a: 4-7; Zaneveld 1950b: 335-338.
- Weiss, R.E. (birth and death dates not found).** Gathered three 1897 collections from the Republic of Ireland (C1-2845, C1-2886, C1-2907). Additional information — not found during present study.
- Werth, Emil Albert Karl August (1869-1958).** German botanist. Additional information — Barnhart 1965c: 478; Lamy & Woelkerling 1998: 239; Stafleu & Cowan 1988: 196-197.
- Wichmann, Carl Ernst Arthur (1851-1927).** Dutch zoologist, who collected in Indonesia in 1902 & 1903. Additional information — Van Steennis-Kruseman 1950: 573; Vegter 1988: 1151; Zaneveld 1950a: 7; 1950b: 338.
- Wille, Johan Nordal Fischer (1858-1924).** Norwegian phycologist. Additional information — Barnhart 1965c: 497; Lamy & Woelkerling 1998: 239-240; Stafleu & Cowan 1988: 305-312.

- Willems, A. (birth and death dates not found).** Collected specimens with Henri Rousson in Tierra del Fuego during a mission supported by the French government. Additional information — Godley 1970: 83-84.
- Wittrock, Veit, Brecher (1839-1914).** Swedish botanist. Additional information — Barnhart 1965c: 511; Stafleu & Cowan 1988: 406-412.
- Wordsworth, M (birth and death dates not found).** Gathered the type of *Goniolithon spectabile* f. *intermedia* (A13-670) from Bermuda 1890 that was sent to Foslie by Farlow in 1900. M. Wadsworth listed in protologue (Foslie 1901a: 15-16). Additional information — not found during present study.
- Wright, A.E. (birth and death dates not found).** Gathered one collection of *Melobesia farinosa* f. *callithamnioides* (A15-889) from Jamaica in 1905-1906 that was sent to Foslie by Farlow. Collection accompanied by a printed label that is headed Cryptogams of Jamaica 1905-1906 collected by A.E. Wright. Additional information — not found during present study.
- Wright, Edward Perceval (1834-1910).** Irish naturalist. Additional information — Barnhart 1965c: 523; Desmond 1994: 759; Stafleu & Cowan 1988: 467-468.
- Wurdemann, Dr. John George F. (1810-1849).** American physician-naturalist who resided in Key West, Florida in 1844-1845 and collected algae and other marine organisms. Name incorrectly spelled Wærdemann by Foslie (1906b: 11), and Wordemann on box in Foslie's herbarium (C16-3258), repeated by Woelkerling (1993: 96; 1998: 345). Additional information — Harvey 1853: 245; Gifford 1969: 44-64.
- Yendo, Kichisaburo (1874-1921)** Japanese phycologist. Additional information — Barnhart 1965c: 531; Lamy & Woelkerling 1998: 240; Stafleu & Cowan 1988: 490-491.
- Zeyher, Carl Ludwig Phillip (1799-1858).** German collector. Additional information — Barnhart 1965c: 540; Stafleu & Cowan 1988: 534-535.

Appendix 4 Data on geographic regions

Nongeniculate corallines from 118 distinct geographic regions occur in Foslie's herbarium. The current English names for geographic regions and their nature (nation, dependent state, etc.) are based on information in the Getty Thesaurus of Geographic Names Online (www.getty.edu/research/conducting_research/vocabularies/tgn/). Equivalent, additional names and abbreviations are those appearing on collection boxes/packets. The total number of collections from each region is listed in second column from the right, while the right hand column gives the percentage from each region of the total number of collections (3879) present in Foslie's nongeniculate coralline herbarium.

	Geographic region (current English name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's herbarium	Number of collections	% of total number of coll.
-	[geographic region uncertain]	—	61	1.57%
1	Adriatic Sea [sea, an arm of the Mediterranean Sea]	Adria, Adriaterhavet, e mari Adriatico, Mare Adriat. The name Adriatic Sea is used here for eight collections lacking further locality data	8	0.21%
2	Algeria [nation]	Alg.	63	1.62%
3	Amsterdam Island [island in the Indian Ocean, part of the French Southern and Antarctic Territories, overseen by the nation of France]	Isle d'Amsterdam [not to be confused with Amsterdam Island (Amsterdamøya), part of Svalbard, a dependent state of the nation of Norway]	1	0.03%
4	Antarctica [continent]	—	3	0.08%
5	Argentina [nation]	also see entry for Tierra del Fuego, used here for collections when the administrative nation (Argentina or Chile) cannot be determined from locality information present	12	0.31%
6	Ascension [island in the Atlantic Ocean and dependency of Saint Helena, in turn a dependent state of the United Kingdom]	—	1	0.03%
7	Auckland Islands [island group in the Southern Ocean, and possession of New Zealand]	Auckland	2	0.05%
8	Australia [nation]	N'elle Hollande [= New Holland], Nou. Holland, Nov. Hollandia	155	4.00%
9	Azerbaijan [nation]	—	1	0.03%
10	Azores [island group in the Atlantic Ocean and autonomous region of Portugal]	Acorerne, Azoren, Azorerne	3	0.08%
11	Bahamas [nation; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	—	75	1.93%
12	Barbados [nation; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	—	3	0.08%
13	Belgium [nation]	Belgique	1	0.03%
14	Bermuda [dependent state of the nation of the United Kingdom, comprising a group of about 140 islands in the Atlantic Ocean]	Islands of Bermuda	24	0.62%

	Geographic region (current English name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's Herbarium	Number of collections	% of total number of coll.
15	Black Sea [sea, linked to the Mediterranean Sea through the Bosphorus, the Sea of Marmara, and the Dardanelles]	Mer Noire. The name Black Sea is used here for one collection lacking further locality data. Additional collections from named Black Sea localities are listed in entries for Turkey	1	0.03%
16	Brazil [nation]	Brasil, Brasilia, Brasilien	7	0.18%
17	Caicos Islands [island group in the Turks and Caicos Islands, a dependent state of the United Kingdom; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	Caicos Islands, B.W.I. [= British West Indies]	5	0.13%
18	Canada [nation]	Amerika	77	1.99%
19	Canary Islands [island group in the Atlantic Ocean, and autonomous community within the nation of Spain]	Kanar. Øer, Kanariske øer, De Kanariske øer	22	0.57%
20	Cape Verde [nation, and island group in the Atlantic Ocean]	Cape Verde Islands, Cap Verd. Inseln, Cap Verd. øer, Cap Verdiske øer	9	0.23%
21	Cargados Carajos [island group, and dependency of the nation of Mauritius]		4	0.10%
22	Caroline Islands [island group, a large part of which constitutes the nation of Micronesia, situated in the Pacific Ocean]	Karolinerne	7	0.18%
23	Caspian Sea [sea, the world's largest inland body of water]	Kaspiske hav	4	0.10%
24	Chagos Archipelago [island group comprising the British Indian Ocean Territory and belonging to the United Kingdom]	Chagos, Chagos Ins., Chagos øerne	23	0.59%
25	Channel Islands [island group in the English Channel, administered by the United Kingdom]	—	2	0.05%
26	Chatham Islands [island group in the Pacific Ocean, and a possession of New Zealand]	Chatamøerne, Chatam-øerne	4	0.10%
27	Chile [nation]	Also see entry for Tierra del Fuego, used here for collections when the administrative nation (Chile or Argentina) cannot be determined from locality information present	20	0.52%
28	Cocos Islands [island group in the Indian Ocean, and dependent state of the nation of Australia]	Cocos-Keeling Islands, Cocos Keeling-øerne	3	0.08%
29	Comoro Islands [nation, and island group in the Indian Ocean]	—	1	0.03%
30	Croatia [nation]	The name Croatia does not appear on any collection but individual localities or regions in the nation do	216	5.57%
31	Cuba [nation]	—	1	0.03%
32	Denmark [nation]	Danmark	73	1.88%
33	Djibouti [nation]	—	10	0.26%
34	Dominican Republic [nation, comprising part of the island of Hispaniola and some smaller islands; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	St. Domingo [= Santo Domingo]	2	0.05%

	Geographic region (current English name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's Herbarium	Number of collections	% of total number of coll.
35	Easter Island [island in the Pacific Ocean, forming part of the Valparaiso region of the nation of Chile]	—	2	0.05%
36	Egypt [nation]	—	13	0.34%
37	Eritrea [nation]	—	7	0.18%
38	Faeroe Islands [island group in the Atlantic Ocean, and dependent state of the nation of Denmark]	Færøerne	31	0.80%
39	Falkland Islands [island group in the Atlantic Ocean, and dependent state of the United Kingdom]	Falklandsøerne	17	0.44%
40	France [nation]	Frankreich, Frankrig, Frankrige, Frankrigs	253	6.52%
41	Galapagos [island group in the Pacific Ocean, constituting a province of the nation of Ecuador]	—	4	0.10%
42	Gambier Islands [island group in the Pacific Ocean, forming part of French Polynesia, a dependent state of France]	—	6	0.15%
43	Germany [nation]	The name Germany does not appear on any collection but individual localities in the nation do	28	0.72%
44	Ghana [nation]	Gold Coast	1	0.03%
45	Greece [nation]	Grækenland	15	0.39%
46	Greenland [dependent state of the nation of Denmark]	Grønl., Grønland	55	1.42%
47	Hawaiian Islands [island group in the Pacific Ocean, collectively constituting the state of Hawaii of the United States]	Hawaii, Sandwich Inseln, Sandwich Islands	12	0.31%
48	Iceland [nation]	Island	66	1.70%
49	Indonesia [nation, comprising over 13,000 islands and partly separating the Indian Ocean from the Pacific Ocean]	Nederlandsk Indies. The name Indonesia does not appear on any collection, but individual islands or localities in the nation do	209	5.39%
50	Isle of Man [dependent state of the nation of the United Kingdom, comprising the Isle of Man and several small islands, and situated in the Irish Sea, an arm of the Atlantic Ocean]	—	12	0.31%
51	Italy [nation]	The name Italy does not appear most collections, but individual localities in the nation do	48	1.24%
52	Jamaica [nation, comprising the island of Jamaica and some small islands situated in the Caribbean Sea; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	—	55	1.42%
53	Jan Mayen [island in the Atlantic Ocean, and dependent state of the nation of Norway]	—	1	0.03%
54	Japan [nation]	—	78	2.01%
55	Kerguelen [island group in the Indian Ocean, part of the French Southern and Antarctic Territories, overseen by the nation of France]	Kerguelensland	22	0.57%
56	Kiribati [nation, and island group in the Pacific Ocean]	—	1	0.03%

	Geographic region (current english name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's Herbarium	Number of collections	% of total number of coll.
57	Laccadive Islands [island group in the Indian Ocean and territory of the nation of India]	Lakadiverne	11	0.28%
58	Lebanon [nation]	Phoenicia	4	0.10%
59	Madagascar [nation, comprising the island of Madagascar and surrounding small islands and situated in the Indian Ocean]]	—	7	0.18%
60	Maldives [nation, comprising of clusters of Islands in the Indian Ocean]]	Maldiverne [= Maldive Islands]	41	1.06%
61	Malta [nation, comprising of three islands in the Mediterranean Sea]	—	2	0.05%
62	Martinique [dependent state of the nation of France; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	Martinicia	2	0.05%
63	Mauritania [nation]	Mauritanie, Côtes des Mauritanie	11	0.28%
64	Mauritius [nation]	Ile Maurice	17	0.44%
65	Mediterranean Sea [sea, with connections to the Atlantic Ocean, the Red Sea, and the Black Sea]	Mare Mediterr., Mari Mediterr., Middelhavet. The name Mediterranean Sea is used here for five collections lacking further locality data	5	0.13%
66	Mexico [nation]	—	13	0.34%
67	Monaco [nation]	—	19	0.49%
68	Morocco [nation]	Maroc, Marokko	43	1.11%
69	Netherlands [nation]	Netherlands	1	0.03%
70	New Caledonia [dependent state of the nation of France, comprising the island of New Caledonia and some smaller islands, and situated in the Pacific Ocean]	Nouvelle-Calédonia	1	0.03%
71	New Zealand [nation]	Ny Seland	31	0.80%
72	Norway [nation]	Norvège	916	23.61%
73	Papua New Guinea [nation, occupying the eastern half of the island of New Guinea and including some smaller islands, and situated in the Pacific Ocean as part of the Malay Archipelago]	Neu Guinea	4	0.10%
74	Persian Gulf [an arm of the Indian Ocean between the Arabian Peninsula and southwest Iran]	Persiske hav, Sinus Persicus	2	0.05%
75	Peru [nation]	—	1	0.03%
76	Philippines [nation, comprising over 7000 islands and situated in the Pacific Ocean]	—	1	0.03%
77	Pitcairn [island situated in the Pacific Ocean and dependent state of the United Kingdom]	—	1	0.03%
78	Portugal [nation]	—	5	0.13%
79	Puerto Rico [island group and dependent state of the United States, comprising the main island of Puerto Rico and several smaller islands; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	Porto Rico	65	1.68%

	Geographic region (current English name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's Herbarium	Number of collections	% of total number of coll.
80	Red Sea [sea, situated between the Arabian Peninsula and northeast Africa, and connected to the Mediterranean Sea and the Indian Ocean]	Rotes Meer, Rothes Meer. The name Red Sea is used here for four collections lacking further locality data	4	0.10%
81	Republic of Ireland [nation]	Ireland, Irland	129	3.33%
82	Réunion [dependent state of the nation of France, situated in the Indian Ocean and comprised of the Island of Réunion and several smaller islands]	—	4	0.10%
83	Rodrigues [dependency of the nation of Mauritius, situated in the Indian Ocean and comprising the island of Rodrigues and several smaller islands]	Isle of Rodriguez, Rodriguez	2	0.05%
84	Russia [nation]	—	5	0.13%
85	Saint-Barthélemy [island, administratively part of the Saint-Martin-Saint-Barthélemy arrondissement of Guadeloupe, a dependent state of the nation of France; also part of the West Indies archipelago separating the Atlantic Ocean and from Caribbean Sea]	St. Barthélemy	1	0.03%
86	Samoa [nation in the Pacific Ocean, comprising the western Samoa Islands]	—	7	0.18%
87	Samoa Islands [island group in the Pacific Ocean, divided into the nation of Samoa and American Samoa (a dependent state of the United States)]	Used here for six collections labeled Samoa but without further locality data	6	0.15%
88	São Tomé and Príncipe [nation], comprising two islands in the Gulf of Guinea, part of the Atlantic Ocean]	San Thome, San Tomé, St Thome, St. Thomé, St. Thomas	16	0.41%
89	Saudi Arabia [nation]	Saudi Arabia	1	0.03%
90	Saya de Malha Bank [subtidal geological formation situated on the Mascarene Plateau (Mauritius-Seychelles ridge) in the Indian Ocean, lying outside territorial waters but within the exclusive economic zone of Mauritius]	Saya de Malha	7	0.18%
91	Sénégal [nation]	The name Sénégal does not appear on any collection. All collections come from Cape Verde, variously written as Cape Verte, Cap Verd, Cap Vert, Cabo Verde, or Iles du Cap Vert]	9	0.23%
92	Seychelles [nation, comprising two groups of scattered islands in the Indian Ocean]	Seychellerne	21	0.54%
93	Society Islands [island group in the Pacific Ocean, forming part of French Polynesia, a dependent state of France]	Selskapsøerne	7	0.18%
94	South Africa [nation]	Sydafrika, Sydafr., Vestafrika, Vest-Afrika	39	1.01%
95	South Georgia and the South Sandwich Islands [island group in the Atlantic Ocean, and a dependent state of the Falkland Islands, in turn a dependent state of the United Kingdom]	Sydgeorgien	2	0.05%
96	South Orkney Islands [Atlantic Ocean island group in the British Antarctic Territory, in turn a colony of the United Kingdom]	South Orkney Islands	4	0.10%
97	Spain [nation]	Espagne, Spanien	22	0.57%

	Geographic region (current English name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's Herbarium	Number of collections	% of total number of coll.
98	Spitsbergen [island, and also the name of an island group forming part of Svalbard, a dependent province of the nation of Norway]	—	17	0.44%
99	Sri Lanka [nation]	Ceylon	12	0.31%
100	St. Helena [dependent state of the United Kingdom, comprising the island of St Helena and several others, situated in the Atlantic Ocean]	—	1	0.03%
101	St. Paul Island [island in the Indian Ocean, part of the French Southern and Antarctic Territories, overseen by the nation of France]	Ile St. Paul	1	0.03%
102	Sudan [nation]	The name Sudan does not appear on any collection but localities in the nation do	2	0.05%
103	Sweden [nation]	Sverige	61	1.57%
104	Taiwan [nation]	Formosa	1	0.03%
105	Tanzania [nation]	Afrikas östkyst, Ost-Afrika, Zanzibar	5	0.13%
106	Thailand [nation]	Siam. The name Thailand does not appear on any collections, but individual localities in the nation do	16	0.41%
107	Tierra del Fuego [a South American archipelago comprising all islands south of the Strait of Magellan, including the large island named Tierra del Fuego. Both the archipelago and the island are divided administratively between Chile and Argentina]	Feuerland, Fuegia, Ile de Feu, Ildlandet, Süd-Spitze Americas, Terre de Feu, T. de Feu. Used here for collections when the administrative nation (Chile or Argentina) cannot be determined from locality information present	14	0.36%
108	Tuamotu Archipelago [island group in the Pacific Ocean, forming part of French Polynesia, a dependent state of France]	The name Tuamotu Archipelago does not appear on any collection but individual islands in the archipelago do	9	0.23%
109	Tunisia [nation]	—	1	0.03%
110	Turkey [nation]	The name Turkey does not appear on any collections, but individual localities in the nation do, mostly involving the Black Sea and the Sea of Marmara	19	0.49%
111	Turkmenistan [nation]	The name Turkmenistan does not appear on the collection, but a Caspian Sea locality does	1	0.03%
112	Tuvalu [nation, comprising nine coral atolls in the Pacific Ocean that make up the Ellice Islands]	The name Tuvalu does not appear on any collection but individual islands in the nation	24	0.62%
113	United Kingdom [nation]	Region includes entries from England, Scotland and Wales	101	2.60%
114	United States [nation] [Hawaiian Islands listed separately]	America, Amerika, U.S. America	194	5.00%
115	Venezuela [nation]	—	2	0.05%
116	Virgin Islands of the United States [island group and dependent state of the United States, known as the Danish West Indies prior to 1917; also part of the West Indies archipelago separating the Atlantic Ocean from the Caribbean Sea]	Vestindien. The name Virgin Islands of the United States does not appear any collection, but individual localities in the dependent state do	67	1.73%

	Geographic region (current English name)	Equivalent, additional geographic names and abbreviations that appear on some boxes/packets in Foslie's Herbarium	Number of collections	% of total number of coll.
117	West Indies [archipelago, comprising over 1200 islands separating the Caribbean Sea and the Atlantic Ocean, encompassing the Greater Antilles, the Lesser Antilles and the Bahama Islands and including a number of island nations and dependent states]	Used here for one collection labeled West Indies but without further locality data	1	0.03%
118	Yemen [nation]	the name Yemen does not appear on the collection, but a locality in the nation does	1	0.03%
Totals			3879	100.00%

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