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Jon-Arne Snøli

A COLLECTION OF MARINE MOLLUSCA FROM MØRE AND ROMSDAL,
NORTHWESTERN NORWAY

TRONDHEIM 1974

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A COLLECTION OF MARINE MOLLUSCA FROM MØRE AND ROMSDAL,
NORTHWESTERN NORWAY

by

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The Royal Norwegian Society of Sciences and Letters, The Museum

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ABSTRACT

Sneli, Jon-Arne. 1974. A collection of marine Mollusca from Möre and Romsdal, Northwestern Norway. *K. norske Vidensk. Selsk. Mus. Miscnea* 20: 1-17.

The main benthic faunal elements found at 33 stations sampled during a two-week cruise in the faunistically poorly investigated fjords and coastal areas of Möre and Romsdal province, Northwestern Norway, during the summer of 1970, are listed, and detailed species lists are presented for the Caudofoveata (2 species found), Placophora (8), Prosobranchia (74), some Opisthobranchia (14), Pteropoda (1), and Scaphopoda (6).

Jon-Arne Sneli, Biological Station, N-7000 Trondheim.

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INTRODUCTION

The marine fauna of Northwestern Norway as a whole has been poorly investigated, although some information can be found in several early publications (see Brattegard & Vader 1972 and the literature cited therein).

Our knowledge of the taxonomy and distribution of the marine molluscs from this region is mainly based on the early investigations by Ström (1762), and Liljeborg (1852), and the excellent monograph by G.O. Sars (1878). More recently, Dons (1934, 1937, 1942, 1949), Odhner (1939), and Snøli (1968) have provided further information.

During the summer of 1970 scientists from the Biological Stations at Espengrenn and Trondheim made a fourthnightly cruise in the fjords and coastal areas of Møre and Romsdal province from ca. latitude $62^{\circ}10'N$ to $63^{\circ}20'N$ (Fig. 1).

Samples were collected from many different biotopes, from muddy, deep fjord basins to sandy substrates near the open coast. The samples were obtained with a triangular dredge, a rectangular dredge, or a modified Ockelmann sledge. The coarse contents of the catch were sorted by hand, while the finer fractions were sorted through graded sieves down to 0.5 mm mesh-size.

This paper presents species lists for the Caudofoveata, Placophora, Prosobranchia, some Opisthobranchia (mainly fam. Pyramidellidae), Pteropoda, and Scaphopoda collected during the cruise. Special attention was paid to collecting these particular groups, together with the Pelecypoda, Peracarida, and Pogonophora, although as much material as possible of other groups was also secured. Records of Peracarida have been published by Brattegard & Vader (1972), and Greve (1972).

Molluscs were found at 33 of the 51 stations investigated. The richest collections made were those from sandy bottoms in comparatively deep coastal waters, and at both the stations 70 038 and 70 065, 29 mollusc species were collected. Brattegard & Vader (1972) found no fewer than 54 peracarid species at station 70 065.

Of the 105 species collected, 59 belong to the boreal and 20 to the arctic-boreal faunal elements. One species, *Caecum glabrum*, had its hitherto known distribution range extended northward

Fig. 1. Map of all stations sampled during the 1970 cruise to Möre and Romsdal province. Only the two last digits of the station numbers have been entered on the map. The exact geographical positions of the stations are given in the text.

along the Norwegian coast.

The Caudofoveata have been identified by Dr. L. von Salvini-Plawen and the Prosobranch family Eulimidae by amanuensis A. Warén. The published material is preserved at the Museum of the Royal Norwegian Society of Sciences and Letters in Trondheim.

LIST OF STATIONS

Stn 70 022. 29 June 1970. Trondheimsleia, mouth of Dromnessund, 63°24'N, 08°36'30"E. Depth 10-40 m, stones and gravel; triangular dredge. Conspicuous faunal elements: *Modiolus modiolus*, *Astarte sulcata*, *Stichastrella rosea*, *Ophiopholis aculeata*.

Stn 70 023. 29 June 1970. Trondheimsleia, mouth of Dromnessund, 63°24'N, 08°36'40"E. Depth 10-20 m, some gravel and *Laminaria saccharina*; triangular dredge. Conspicuous faunal elements: *Ophiotrix fragilis*, *Ophiopholis aculeata*, *Pagurus bernhardus*, *Hiatella* sp.

Stn 70 024. 30 June 1970. Julsundet, between Forholmen and Bolholmen, 62°45'20"N, 06°55'45"E. Depth about 50 m, rocky bottom; triangular dredge. Conspicuous faunal elements: *Paramuricea placomus*, *Primnoa resedaeformis*, *Geodia* sp., *Phakellia* sp.

Stn 70 027. 1 July 1970. Moldefjorden, E of Tautra, 62°41'N, 07°00'E. Depth 450 m, soft bottom; bottom sledge. Conspicuous faunal elements: *Kophobelemnoides stelliferum*, *Siboglinum ekmani*, *Psilaster andromeda*, *Stichopus tremulus*.

Stn 70 031. 1 July 1970. Vatnefjorden, NE of Lövøy, 62°36'50"N, 06°36'20"E. Depth 8-2 m, shell-sand with *Laminaria saccharina*, *Chorda filum*, and other algae; bottom sledge. Conspicuous faunal elements: *Ophiocomina nigra*.

Stns 70 032, 70 033. 2 July 1970. Samsfjorden, opposite Ringstad, 62°35'20"N, 06°26'50"E. Depth 60-70 m, sand and gravel; rectangular dredge and bottom sledge. Conspicuous faunal elements: *Virgularia mirabilis*, *Echinocardium flavescens*, *Amphiura* spp., *Arctica islandica*, *Pagurus prideauxi*, *Siboglinum fiordicum*.

Stn 70 034. 2 July 1970. Haramsfjorden, between Hestøy and Haugnes lighthouse, 62°36'40"N, 06°17'20"E. Depth, 42 m, sand; bottom sledge.

Stn 70 035. 2 July 1970. Haramsfjorden, Hestøy, 62°35' 15"N, 06°16'30"E. Depth 30 m, stones and algae; triangular dredge. Conspicuous faunal elements: *Asterias rubens*, *Stichastrella rosea*, *Henricia* spp., *Balanus balanus*, *Hiatella* sp.

Stn 70 036. 2 July 1970. Vigrafjorden, between Björnøy and Vigra, 62°34'N, 06°10'E. Depth 155-170 m, rectangular dredge; soft bottom. Conspicuous faunal elements: *Maldane* sp., *Calocaris macandreae*, *Psilaster andromeda*, *Pennatulula* sp., *Siboglinum fiordicum*.

Stn 70 037. 3 July 1970. Breisunddypet, SE of Godøy, 62°27'N, 05°54'E. Depth 245 m; bottom sledge. Conspicuous faunal elements: *Ophiura* sp., *Pandalina profunda*, *Munida* sp.

Stn 70 038. 3 July 1970. Breisunddypet, NE of Grasøyana, 62°28'N, 05°47'E. Depth 60-120 m, shell-sand; bottom sledge.

Stn 70 044. 3 July 1970. Leinøy, Røynsund, 62°19'15"N, 05°43'40"E. Depth 12-30 m, stones and *Laminaria*; triangular dredge. Conspicuous faunal elements: *Astropecten irregularis*, *Asterias rubens*, *Ophiotrix fragilis*, *Ophiopholis aculeata*, *Modiolus modiolus*.

Stn 70 045. 4 July 1970. Gurskøy, Moltu, 62°18'N, 05°38'E. Depth 30-35 m, stones, shell-gravel, and sand; triangular dredge. Conspicuous faunal elements: *Cardium echinatum*, *Arctica islandica*, *Hiatella* sp., *Siboglinum* sp.

Stn 70 046. 4 July 1970. Sandsfjorden, between Gjøtangen and Gjøskjæra, 62°15'50"N, 05°30'45"E. Depth 25-50 m, triangular dredge; gravel and shell-sand. Conspicuous faunal elements: *Glycimeris glycimeris*, *Strongylocentrotus droebachiensis*, *Stichastrella rosea*, *Henricia* spp., *Spatangus purpureus*.

Stn 70 048. 4 July 1970. Rovdefjorden, NE of Kopperevet, 62°11'45"N, 05°34'E. Depth 150-200 m, sand; bottom sledge. Conspicuous faunal elements: *Psilaster andromeda*, *Echinocardium flavescens*, *Ophiura* spp.

Stn 70 050. 6 July 1970. Voldafjorden, Andenes, 62°07' 45"N, 06°04'30"E. Depth 150 m; triangular dredge. Conspicuous faunal elements: *Lima excavata*, *Brisinga endecacnemos*, *Stichopus tremulus*, *Psilaster andromeda*, *Phakellia* sp.

Stn 70 052. 6 July 1970. Voldafjorden, 62°10'N, 05°58' 40"E. Depth 650-690 m, soft bottom; bottom sledge. Conspicuous faunal elements: *Psilaster andromeda*, *Siboglinum ekmani*, *Bathysiphon minuta*.

Stn 70 053. 6 July 1970. Voldafjorden, Björkeviken, 62°12'25"N, 05°57'20"E. Depth 10-25 m, gravel and *Laminaria*; triangular dredge. Conspicuous faunal elements: *Echinus esculentus*, *Asterias rubens*, *Ophiura albida*, *Ophiopholis aculeata*.

Stn 70 055. 7 July 1970. Ellingsøyfjorden, between Svinøy and Lerstadholmen, 62°28'30"N, 06°17'E. Depth 40-60 m, stones and gravel; triangular dredge. Conspicuous faunal elements: *Cucumaria frondosa*, *Psolus squamatus*, *Stichastrella rosea*, *Echinus* spp.

Stn 70 056. 7 July 1970. Ellingsøyfjorden, 62°28'40"N, 06°19'E. Depth 44-52 m, sand; bottom sledge. Conspicuous faunal elements: *Arctica islandica*, *Psialster andromeda*, *Ophiura* spp., *Amphiura* spp.

Stn 70 057. 7 July 1970. Ellingsøyfjorden, 62°29'N, 06°19'E. Depth 20-50 m; triangular dredge. Conspicuous faunal elements: *Modiolus modiolus*, *Marthasterias glacialis*, *Asterias rubens*.

Stn 70 058. 7 July 1970. Vigrafjorden, between Gjøsundholmen and Kalvøy, 62°32'30"N, 06°12'E. Depth 30-60 m; triangular dredge. Conspicuous faunal elements: *Arctica islandica*, *Hiatella* sp., *Astarte sulcata*, *Astropecten irregularis*.

Stn 70 062. 8 July 1970. Frenefjorden, opposite Löset, 62°50'20"N, 07°55'30"E. Depth 50-62 m, sand; bottom sledge. Conspicuous faunal elements: *Stichastrella rosea*, *Amphiura* spp., *Ophiura* spp., *Turritella communis*, *Dentalium entale*.

Stn 70 063. 8 July 1970. Julsund, SE of Harøyodden, 62°51'40"N, 06°58'E. Depth 100 m, sand; bottom sledge. Conspicuous faunal elements: *Ophiura* spp., *Amphiura* spp., *Amphilepis norvegica*.

Stn 70 064. 9 July 1970. Bremnesfjorden, between Klubbneset og Staveneset, 63°07'N, 07°41'E. Depth 180-200 m, stone, gravel, and sand; rectangular dredge. Conspicuous faunal elements: *Paramuricea placomus*, *Stichopus tremulus*, *Geodia* sp., *Phakellia* sp., ophiuroids, *Hiatella* sp.

Stn 70 065. 9 July 1970. 2 nautical miles N of Kirkelandet, Kristiansund N, 63°09'40"N, 07°44'E. Depth 145 m, sand; bottom sledge.

Stn 70 066. 9 July 1970. Talgsjøen, Hammersund, 63°09'50"N, 07°51'E. Depth 80-120 m, stones and sand; triangular dredge.

Stn 70 067. 9 July 1970. Årsundfjorden, between Kråkøy and Langøy, 63°07'30"N, 08°00'E. Depth 290-300 m, soft bottom;

bottom sledge.

Stn 70 068. 9 July 1970. Halsefjorden, oppsite Halsbukten, 63°14'30"N, 08°32'35"E. Depth 120-140 m, soft sand bottom; triangular dredge. Conspicuous faunal elements: *Amphilepis norvegica*, *Stichopus tremulus*, *Kophobelemnoides stelliferus*, *Siboglinum ekmani*.

Stn 70 069. 9 July 1970. Aresvikfjorden, 63°09'30"N, 08°17'E. Depth 200-225 m, soft bottom; rectangular dredge. Conspicuous faunal elements: *Stichopus tremulus*, *Brissopsis lyrifera*, *Amphilepis norvegica*.

Stn 70 070. 10 July 1970. Auresund, oppsite Torsetneset, 63°14'30"N, 08°32'35"E. Depth 120-140 m, fine sand; bottom sledge. Conspicuous faunal elements: *Pennatula* sp., *Arctica islandica*, *Ctenodiscus crispatus*, *Amphilepis norvegica*, *Ophiura sarsi*.

Stn 70 071. 10 July 1970. Gjerdesviken, 63°17'40"N, 08°23'15"E. Depth 110-120 m, soft bottom; bottom sledge.

Stn 70 072. 10 July 1970. Torsetsund, opposite Torset, 63°19'N, 08°37'35"E. Depth 12-30 m; triangular dredge. Conspicuous faunal elements: *Asterias rubens*, *Ophiotrix fragilis*, *Ophiopholis aculeata*, *Cucumaria frondosa*, *Alcyonium digitatum*.

Stn 70 073. 10 July 1970. Trondheimsfjorden, N of Havnvik, 63°26'30"N, 08°42'E. Depth 210-230 m, soft bottom; rectangular dredge. Conspicuous faunal elements: *Calocaris macandreae*, *Brissopsis lyrifera*, *Stichopus tremulus*, *Leanira tetragona*.

LIST OF SPECIES

Caudofoveata

Falcidens crossotus (Salvini-Plawen) - 70 048, 70 065

Falcidens sagittiferus (Salvini-Plawen) - 70 048

Placophora

Lepidopleurus alveolus (M. Sars) - 70 050, 70 051, 70 074, 70 065

Lepidopleurus asellus (Gmelin) - 70 023, 70 032, 70 035, 70 044,

70 045, 70 046, 70 053, 70 055, 70 057, 70 058, 70 072

Hanleya hanleyi (Bean) - 70 022, 70 024, 70 032, 70 038, 70 044,

70 055, 70 064, 70 065

Ischnochiton albus (Linnaeus) - 70 023, 70 045, 70 046, 70 053,

70 057, 70 064, 70 072

Tonicella marmorea (Fabricius) - 70 023, 70 035, 70 044, 70 045,
70 046, 70 053, 70 057, 70 072

Tonicella rubra (Linnaeus) - 70 044, 70 053, 70 072

Callochiton laevis (Montagu) - 70 035, 70 046

Acanthochiton fascicularis (Linnaeus) - 70 023, 70 044, 70 072

Prosobranchia

Scissurella crispata Fleming - 70 037, 70 038, 70 046, 70 048,
70 064, 70 065, 70 071

Emarginula fissura (Linnaeus) - 70 035, 70 038, 70 046, 70 072

Puncturella noachina (Linnaeus) - 70 038, 70 044, 70 046, 70 065,
70 072

Acmaea testudinalis (Müller) - 70 023, 70 072

Acmaea virginea (Müller) - 70 023, 70 035, 70 044, 70 046, 70 053,
70 057, 70 058, 70 072

Lepeta caeca (Müller) - 70 032, 70 055, 70 058

Iothia fulva (Müller) - 70 045, 70 055, 70 064

Propilidium ancyloide Forbes - 70 065

Calliostoma occidentale (Michels & Adams) - 70 038

Calliostoma zizyphinus (Linnaeus) - 70 022

Clelandella miliaris (Brocchi) - 70 038, 70 045, 70 046, 70 048,
70 055, 70 065

Gibbula cineraria (Linnaeus) - 70 023, 70 031, 70 053, 70 072

Gibbula tumida (Montagu) - 70 023, 70 031, 70 044, 70 053, 70 055,
70 057, 70 072

Margarites groenlandicus (Gmelin) - 70 023, 70 044, 70 053, 70 057,
70 072

Margarites helycinus (Phipps) - 70 023, 70 063

Solariella affinis (Friele) - 70 037, 70 038, 70 048, 70 064, 70 065

Skenea basistriata (Jeffreys) - 70 064, 70 065

Skenea peterseni (Friele) - 70 038

Moelleria costulata (Möller) - 70 064

Lacuna divaricata (Fabricius) - 70 031, 70 062, 70 072

Lacuna parva (da Costa) - 70 035, 70 063

Alvania abyssicola (Forbes) - 70 052

- Alvania beani* (Hanley) - 70 045, 70 046
Alvania cimicoides (Forbes) - 70 022, 70 031, 70 064, 70 065
Alvania jeffreysi (Waller) - 70 038, 70 065
Alvania punctura (Montagu) - 70 038
Alvania zetlandica (Montagu) - 70 022, 70 038, 70 064, 70 065
Cingula alderi (Jeffreys) - 70 062
Cingula turgida (Jeffreys) - 70 037, 70 038, 70 048, 70 063, 70 065,
70 067
Onoba striata (Montagu) - 70 031, 70 035, 70 064
Rissoa albella (Lovén) - 70 031
Rissoa inconspiqua (Alder) - 70 023, 70 031, 70 034
Rissoa violacea (Desmarest) - 70 031, 70 034
Turritella communis Risso - 70 032, 70 034, 70 045, 70 055, 70 056,
70 057, 70 058, 70 062, 70 070
Caecum glabrum (Montagu) - 70 038, 70 046
Bittium reticulatum (da Costa) - 70 031
Cerithiopsis tubercularis (Montagu) - 70 065
Cerithiella metula (Lovén) - 70 034, 70 037, 70 038, 70 048, 70 062,
70 063
Eumetula costulata (Möller) - 70 065
Aclis sarsi (Dautzenberg & Fischer) - 70 065
Aclis walleri Jeffreys - 70 064
Eulima bilineata (Alder) - 70 035, 70 038, 70 048, 70 056, 70 058,
70 063, 70 065, 70 071
Haliella stenostoma (Jeffreys) - 70 027, 70 038, 70 048, 70 063,
70 066, 70 067, 70 069, 70 070
Balcis devians (Monterosato) - 70 031 - 70 033, 70 036, 70 037,
70 045, 70 046, 70 048, 70 058, 70 063, 70 071
Balcis frieli (Jordan) - 70 034- 70 037, 70 048, 70 052
Balcis lubrica (Monterosato) - 70 062
Balcis monterosatoi (Monterosato) - 70 063
Balcis permula (Monterosato) - 70 038
Aporrhais pespellecani (Linnaeus) - 70 055, 70 058
Trichotropis borealis Broderip & Sowerby - 70 038, 70 044, 70 057,
70 065, 70 071
Capulus ungaricus (Linnaeus) - 70 038, 70 065
Velutina velutina (Müller) - 70 058
Natica clausa Broderip & Sowerby - 70 038, 70 071

- Amauropsis islandicus* (Gmelin) - 70 057
Lunatia intermedia (Philippi) - 70 046
Lunatia montagui (Forbes) - 70 022, 70 038, 70 046
Lunatia pallida (Broderip & Sowerby) - 70 036, 70 056, 70 070
Boreotrophon barvicensis (Johnston) - 70 034, 70 037, 70 045, 70 046,
70 048, 70 063, 70 065, 70 069, 70 071
Buccinum undatum Linnaeus - 70 023- 70 055, 70 056, 70 071, 70 072
Neptunea despecta (Linnaeus) - 70 022
Colus fusiformis (Broderip) - 70 063, 70 064, 70 065
Beringius turtoni (Bean) - 70 038
Admete viridula (Fabricius) - 70 037, 70 038, 70 063, 70 065, 70 071
Typhlomangelia nivalis (Lovén) - 70 038, 70 071
Thesbia nana (Lovén) - 70 038
Oenopota bicarinata (Couthouy) - 70 038
Oenopota harpularia (Couthouy) - 70 065
Oenopota tenuicostata (M. Sars) - 70 037, 70 046, 70 065, 70 070,
70 071
Oenopota trevelli (Turton) - 70 065
Philbertia linearis (Montagu) - 70 045
Philbertia purpurea (Montagu) - 70 023, 70 037, 70 038
Philbertia teres (Reeve) - 70 038, 70 065
Spirotropis carinata (Philippi) - 70 038, 70 065
Taranis moerchi (Malm) - 70 034, 70 037, 70 052, 70 062, 70 063,
70 065, 70 067

Opisthobranchia

- Enteroxenos oestergreni* Bonnevie - 70 069, 70 073
Chrysallida eximia (Jeffreys) - 70 065
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70 063, 70 064, 70 067, 70 070, 70 071

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