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# Phylogenetic structure in the Sphagnum recurvum complex (Bryophyta: Sphagnaceae) relative to taxonomy and geography --Manuscript Draft--

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	CONCLUSIONS
	We recognize seven species in the amended S. recurvum complex, including S. balticum and S. obtusum , in addition to the informal clade, S. "pseudopacificum". Although we detected some geographically-correlated phylogenetic structure within widespread morphospecies, our RADseq data support the interpretation that these species have intercontinental geographic ranges.

Keywords:	biogeography; peat moss; Sphagnaceae; Sphagnum					
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## Phylogenetic structure in the *Sphagnum recurvum* complex (Bryophyta: Sphagnaceae) relative to taxonomy and geography

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Running Head: Phylogenetic structure in the Sphagnum recurvum complex

**PREMISE:** The *Sphagnum recurvum* complex comprises a group of closely related species of peat mosses that are dominant components of many northern wetland ecosystems. Taxonomic hypotheses for the group range from interpreting the whole complex as one polymorphic species or as 6-10 species. The complex occurs around the Northern Hemisphere and some of the putative species also have intercontinental ranges. Our goals were to circumscribe the complex and assess its phylogenetic structure relative to morphologically defined species and geography.

**METHODS:** RADseq analyses were applied to a sample of 384 collections representing the European, North American, and (to a lesser extent) Asian ranges of the complex. The data were subjected to maximum likelihood phylogenetic analyses and analyses of genetic structure using the software, STRUCTURE, and multivariate ordination approaches.

**RESULTS:** Defined phylogenetically, the *S. recurvum* complex includes *S. angustifolium*, *S. fallax*, *S. flexuosum*, *S. pacificum*, and *S. recurvum*, as distinct clades with little evidence of admixture within them. In addition, we resolved another clade, sister to either *S. pacificum* or *S. fallax*, that is currently unnamed and is referred to in this paper as S. "pseudopacificum." We confirm that *S. balticum*, a species not generally included in the *S. recurvum* complex, and *S. obtusum*, never associated with the complex by previous authors, are nested within it among the core species. Within the complex, species with bluntly acute to obtuse stem leaf apices are sister to those with acute to apiculate stem leaves. Species with geographic ranges that span Europe, eastern North America, and Western North America exhibit a sister-group relationship between amphi-Atlantic and Pacific clades. European plants within *S. flexuosum* form a clade that is nested within a paraphyletic group of eastern North America.

**CONCLUSIONS:** We recognize seven species in the amended *S. recurvum* complex, including *S. balticum* and *S. obtusum*, in addition to the informal clade, S. "pseudopacificum". Although we detected some geographically-correlated phylogenetic structure within widespread morphospecies,

our RADseq data support the interpretation that these species have intercontinental geographic ranges.

**KEY WORDS**: biogeography; peat moss; Sphagnaceae; *Sphagnum*; *Sphagnum angustifolium*; *Sphagnum balticum; Sphagnum fallax; Sphagnum flexuosum; Sphagnum obtusum; Sphagnum pacificum*; and *Sphagnum recurvum* 

Plants that reproduce with spores rather than seeds, including the bryophytes, lycophytes, and monilophytes, are generally thought to have broad ranges that often span multiple continents (Schofield and Crum, 1972). It has been estimated that approximately 70% of the mosses found in Europe also occur in North America (Frahm and Vitt, 1993). Indeed, a perusal of the bryophyte volumes in the Flora of North America project indicate that as presently understood, most temperate and boreal bryophyte species are recorded from multiple continents. Moreover, a substantial number of Neotropical bryophytes are also reported from Africa and/or other tropical continental areas (Gradstein et al., 1983). Consistent with the general pattern of bryophytes having broad, often intercontinental ranges is that many south-temperate bryophyte species are thought to occur disjunctively between Australia/New Zealand and South America, with low rates of endemism in any one area (such as New Zealand) (Muñoz et al., 2004). In contrast, most seed plants are restricted to a single continent; Qian (1999) estimated that only about 6% of vascular plants are shared between North America and Europe. Notwithstanding issues such as how to define what constitutes a species, heterogeneity among plant groups in genetic/phylogenetic architecture, and differences in the approaches of different taxonomists, the general pattern that spore plants have broader ranges than seed plants has not been controversial (but see Vigalondo et al., 2019).

Dated molecular phylogenies have consistently suggested divergence times between intercontinentally disjunct bryophyte populations as being far too recent to be explained by continental drift. Thus, attention has focused on the efficacy of spore dispersal in minimizing or eliminating divergence among distinct populations of bryophytes. At the same time, recent systematic analyses have shown that some species previously thought to have extremely broad intercontinental ranges consist of genetically and sometimes morphologically divergent units that can be interpreted as separate species (Medina et al., 2012, 2013; Heinrichs et al., 2010; Renner et al., 2013, 2017; Hedenäs et al., 2014; Hassel et al 2018, Vigalondo et al., 2019).

In this paper we describe phylogenetic architecture in a small clade of closely related plants in the moss genus *Sphagnum* (peatmosses). *Sphagnum*, with some 200-400 species, is the largest of four genera in the moss class Sphagnopsida (Shaw et al., 2010, 2016). The genus is especially

abundant and diverse in north temperate and boreal regions of the Northern Hemisphere where it grows in and actually creates peatlands – bogs and fens – in many wetland habitats (Rydin and Jeglum, 2013). *Sphagnum*-dominated peatlands have long served as a model for research in community assembly and niche differentiation among closely related sympatric species. Moreover, because some 25% of earth's terrestrial carbon pool is stored in *Sphagnum*-dominated peatlands (Yu et al., 2010), the genus has recently become a model for linking the plants and their traits, ecosystem function, and global climate (Weston et al., 2018).

There has arguably been more molecular work on inter- and intraspecific genetic/phylogenetic structure on *Sphagnum* than on any other genus of bryophytes. Most Northern Hemisphere species of *Sphagnum*, like other bryophytes, are thought to have geographic ranges that span multiple continents (McQueen and Andrus, 2007). Genetic analyses have supported these interpretations that most species are widespread and that endemism, even at the continental scale, is low. Most of the North American species are found in Europe; some occur in both eastern and western North America, although some intercontinental species have amphi-Atlantic or amphi-Pacific ranges (Shaw et al., 2004, 2014; Kyrkjeeide et al., 2015, 2016a, b; Yousefi et al., 2017)

In their revision of *Sphagnum* for the *Flora of North America* project, McQueen and Andrus (2007) recognized 91 species. The genus is comprised of five major clades, each recognized as a subgenus (Shaw et al., 2016). The focus of this study, the so-called *S. recurvum* complex (Flatberg 1992a), falls within the subgenus *Cuspidata*. Taxonomy of the *S. recurvum* complex has been highly variable; Crum (1984) considered it a single species, *S. recurvum* P. Beauv., but McQueen and Andrus (2007) recognized 5-7 distinct species (depending on precisely how the complex is delimited). Flatberg (1992a) recognized five "core" species. Most of the putative species are widespread in both North America and Europe, excluding *S. rubroflexuosum* Andrus, endemic to a few sites in eastern North America, and *S. recurvum* s. str., which is restricted to the New World other than one confirmed report from the Azores. While most of the species are common and widespread across North America and Europe, some are not strictly circumboreal. *Sphagnum fallax*, for example, is common in Europe and eastern North America but appears to be absent from western North America. A related species, is a species of the species in the species and the species.

*S. pacificum*, is limited in North America to the Pacific coast and is not known from eastern North America nor Europe. *Sphagnum angustifolium*, perhaps the most common species in the complex, occurs in Europe, Asia, and both eastern and western North America.

Our goals in this research were to assess phylogenetic architecture of this complex, and address the following questions. (1) How many phylogenetically distinguishable species are there in the complex? (2) Is there genetic differentiation between plants on different continents such additional allopatric species are resolved, contrary to the interpretation that these species have intercontinental ranges? (3) If the species do have intercontinental ranges, is there detectable differentiation among metapopulation systems on different continents (or between eastern and western North American systems)? This group is especially appropriate to address these questions because the traditionally defined species are difficult to distinguish and have been variously interpreted at the taxonomic level, and they occupy wet microsites near the water table within peatland communities, possibly facilitating interspecific hybridization since sperm are released into the water and the taxa frequently co-occur in close proximity. Most of the putative species are currently thought to have intercontinental ranges.

#### MATERIALS AND METHODS

*Taxon sampling* – A total of 384 plants were sampled for the genomic analyses. These included plants generally considered part of the complex, two other taxa not generally included within the complex but sometimes considered close (*S. balticum*, *S. obtusum*), four other species from outside the complex but within the subg. *Cuspidata* (*S. annulatum*, *S. majus*, *S. pulchrum*, *S. riparium*), and one other more distant outgroup from the subg. *Subsecunda* (*S. missouricum*). Of these, 90 were excluded because of poor data quality. The remaining 294 samples that were included in the final analyses comprised 113 samples from Europe (of which 89 were from Norway, one from Portugal [Azores]), and 23 from European Russia), 134 from eastern North America, and 47 from western North America.

Voucher specimens are archived in the Duke University herbarium (DUKE). Specimen information and voucher data are included in Appendix S1. The central portion of a single capitulum was sampled for the molecular work and the remaining tissue from that stem was placed in a small packet and returned to the herbarium specimen.

**DNA isolation, library preparation, and sequencing** – Genomic DNA was extracted from dried samples using tissue from the capitulum of the gametophytes, each with a mass of approximately 100mg. Extractions followed the CTAB protocol outlined in Shaw et al. (2003). DNA concentrations were measured using a Qubit 2.0 Fluorometer (Life Technologies) and standardized to 20ng/µL. Genomic libraries were made following the double digestion restriction site-associated DNA sequencing (ddRADseq) protocol of Parchman et al. (2012) with modifications described here. Restriction digest of 10µL of the genomic DNA sample was performed in a 25µL reaction containing 0.5µL restriction enzyme EcoRI, 1µL restriction enzyme MseI, and 2.5 µL Cutsmart buffer (New England BioLabs) over three hours at 37°C, followed by 10 minutes at 65°C for permanent inactivation of the enzymes. Digested fragments of each sample were ligated to uniquely barcoded oligonucleotide adapters in 12µL reactions containing 9µL digested DNA, 1µL barcoded EcoRI adapter, 1µL Msel adapter, 0.2µL T4 DNA ligase enzyme, and 0.12µL 10X ligase buffer (New England BioLabs) at 23°C for one hour. Amplification of ligated DNA fragments containing both ligated adapters was performed in 20µL reactions containing 2µL ligated DNA, 4µL 1mM dNTP, 4µL 5X buffer, 1.3µL 5µM premixed PCR primers, 0.4µL MgCl<sub>2</sub>, 0.15µL DMSO, and 0.2µL iProof Taq polymerase (Bio-Rad). PCR product concentrations were measured using a Qubit 2.0 Fluorometer and pooled into four libraries, each containing 10ng of 96 PCR products. Each library was cleaned and size-selected for fragments around 350bp using AMPur XPbeads (Beckman Coulter), checked for guality on a BioAnalyzer (Agilent) and sequenced on a single lane of Illumina HiSeg 2000 with 100bp single-end reads or a single lane of NextSeg 500 with 150bp single-ended reads at the Genome Sequencing Shared resource operated by the Duke Center for Genomic and Computational Biology

(https://oit.duke.edu/comp-print/research/).

*RADseq data pipeline* – Raw illumina reads were checked for quality with FastQC (Andrews, 2010) and reads from the NextSeq 500 runs were trimmed to match the length of reads from the HiSeq 2000 runs. SNP discovery was performed with ipyrad v.0.7.29 (Eaton, 2014) using default parameters except as noted here. Reads were processed as datatype "ddrad" to match the library preparation method and samples were treated as haploid, since all except six samples of one outgroup species were expected to have haploid gametophytes. A maximum of two mismatched bases were allowed in the barcode during demultiplexing, Illumina adapter sequences and low-quality bases were trimmed from the reads, and trimmed reads less than 42 bases long or with more than five low quality bases were discarded. Multiple ipyrad runs were performed using a range of read clustering thresholds to identify the clustering threshold (0.90) that maximized the number of variable and parsimony informative loci and to verify that the results of downstream analyses are not sensitive to clustering threshold. Low-read samples and samples with low numbers of loci identified in these exploratory analyses, and additional runs using different minimum sample coverage values were performed to ensure that inferences are not sensitive to the number of loci and level of missing data.

*Phylogenetic analyses* – RAxML version 8.2.12 (Stamatakis, 2014) was used to estimate phylogenetic relationships among sequences under maximum likelihood (ML) using concatenated loci identified by ipyrad. The ML tree was estimated using random starting trees, the rapid bootstrap analysis and best scoring ML tree search, and the GTRGAMMA nucleotide substitution model. The rapid hill-climbing search algorithm was used to estimate the best ML tree using 100 bootstrap replicates to determine support for branches.

Phylogenetic relationships among species were also estimated under the multispecies coalescent model using singular value decomposition scores for species quartets (SVDquartets) as implemented in PAUP\* Version 4.0a, build 165 (Chifman and Kubatko, 2014; Chifman and Kubatko,

2015; Swofford, 2003). Ten million random quartets were sampled (22.28% of total distinct quartets) with 200 bootstrap replicates to determine branch support.

*Cluster analyses* – Each locus identified by ipyrad may contain multiple SNPs, so to avoid using tightly linked SNPs one randomly selected SNP per locus was used for clustering analyses. Genetic structure within the *Sphagnum recurvum* complex was explored using Bayesian model-based cluster analysis with STRUCTURE Version 2.3.2.1 (Pritchard et al., 2000). The most likely number of clusters (K) was evaluated using the method of Evanno et al. (2005) based on ten independent runs using an admixture model with correlated allele frequencies for each K from one to 10 with 50000 steps of burn-in and 500000 steps per run. Regardless of how this method evaluated the "optimal" K, we explored higher levels of K to assess the possibility of additional structure in the data. Matrices of membership coefficients across the independent runs were used to search for the optimal alignment with CLUMPP, version 1.1.2 (Jakobsson and Rosenberg, 2007). In addition to the entire *Sphagnum recurvum* complex, STRUCTURE was also used on subsets of the samples to explore finer-scale genetic structure within major clades identified in the phylogenetic analyses and within individual species when sufficient samples were available.

Principal Components Analysis (PCA) of scaled allele frequencies using the R package 'adagenet' (Jombart, 2011) was used to further explore genetic structure in the entire complex, in major clades, and within individual species.

*Genetic diversity analyses* – Genetic diversity patterns were explored by calculating diversity statistics and estimating pairwise Nei's unbiased genetic distance with GenAlEx 6.5 (Peakall and Smouse, 2006; Peakall and Smouse, 2012) and estimating pairwise Fst with the R package 'hierfstat' (Goudet, 2005). Genetic diversity statistics and distances were calculated for the entire complex, for major clades, and for individual species.

#### RESULTS

**Data characterization** – Four lanes of Illumina sequencing yielded 652 million reads. After trimming, removing barcodes and adapter sequences, filtering for quality, and removing samples with low readcounts, 448 million reads of 42 to 92 bp were retained across 294 individual plant samples, with the number of reads per individual ranging from 375,249 to 2,878,373 (median  $\pm$  SD = 1,518,724  $\pm$  531,416). The assembly pipeline produced 6170 loci shared among at least 80% of the individuals. 6148 of those loci contained one or more SNPs and 6100 contained one or more parsimony informative SNPs. The mean locus coverage per individual was 88.2%.

*Phylogenetic analyses* – Phylogenetic relationships among all individuals are provided in Appendix S2; relationships among species are summarized in Fig. 1. Rooted by a series of increasingly distant *Sphagnum* species, the *S. recurvum* complex is resolved as monophyletic with 100% bootstrap (BS) support (identified by asterisks in Figs 1 and S1). The complex, defined phylogenetically, includes two species, *S. balticum* and *S. obtusum*, that have not generally been identified as closely related to the core species. The complex is sister to a clade that includes *S. majus*, *S. annulatum*, and *S. pulchrum*. *Sphagnum majus* has been shown to be an allopolyploid species (i.e., diploid gametophytes, tetraploid sporophytes) derived from a cross between *S. cuspidatum* (also in subg. *Cuspidata*) and *S. annulatum*.

Two reciprocally monophyletic groups are resolved (each with 100% BS) within the *S*. *recurvum* complex, hereafter referred to as the "Pointed Leaf" and "Rounded Leaf" groups (clades). These labels refer to the stem leaves, which tend to be acute to apiculate in the Pointed Leaf and are obtuse to broadly acute in the Rounded Leaf clade (Fig. 2). These informal labels are not perfectly descriptive (for example, *S. balticum*, phylogenetically part of the Pointed Leaf group, has stem leaves that are barely pointed), but they apply in general. Stem leaf shapes and their apices are generally used for distinguishing species in this complex. *Sphagnum fallax* (Fig. 2:1-6), S. 'pseudopacificum'' [see below] (Fig. 2:7-12), and *S. pacificum* (Fig. 2:13-18) have acute to apiculate leaves whereas *S. balticum*, as noted, has broadly acute to more or less obtuse leaves. Species in the *S. angustifolium* 

clade, *S. angustifolium* (Fig. 2: 25-31), *S. obtusum* (Fig. 2: 32-37), and *S. flexuosum* (Fig. 2: 38-43) have broadly obtuse leaves that are often resorbed across the apex. Occasional stem leaves of *S. angustifolium* are more acute (e.g., Fig. 2: 31), causing confusion with *S. fallax*, with which is often co-occurs.

Support for species relationships within the complex differ between maximum likelihood (ML) analyses of the concatenated dataset and the quartet analyses (Fig. 1). Based on ML, four taxa are resolved, all with 100% BS, within the Pointed Leaf clade. These include *S. fallax, S. pacificum*, and *S. balticum*, plus a currently unnamed taxon that we refer to as S. "pseudopacificum." All samples identified morphologically as *S. brevifolium* or *S. isoviitae*, recognized as species by McQueen and Andrus (2007), Flatberg (2002, 2013), and Laine et al. (2018), are scattered within the *S. fallax* clade with no hint that either forms a monophyletic group (Appendix S2). In the Rounded Leaf clade, *S. angustifolium* itself is sister to *S. obtusum*, *S. flexuosum*, and *S. recurvum* in the ML analyses, but relationships of *S. obtusum* to *S. flexuosum* and *S. recurvum* are more ambiguous (Fig. 1). In the quartet analysis, *S. obtusum* plus *S. angustifolium* are resolved as sister to *S. flexuosum* plus *S. recurvum*. Ambiguity within and between the analyses relates mainly to the position of *S. obtusum*; the sister group relationship between *S. flexuosum* and *S. recurvum* is consistent and strongly supported in both (Fig. 1).

ML analyses of relationships among all accessions suggest geographically correlated genetic structure within species that have intercontinental ranges. Reciprocally monophyletic groups comprised of European versus eastern North American plants are resolved within *S. fallax* (Appendix S2). The European clade is supported at 100% BS whereas the North American clade is unsupported, although there is a perfect geographic segregation of plants between the clades. *Sphagnum fallax* does not occur in western North America.

Geographic structure within *S. angustifolium* is complex (Appendix S2). Most Alaskan samples are resolved as a separate (unsupported) clade sister to all the other samples. But a well-supported smaller second group of samples from Alaska (and British Columbia) appears to be more closely related to plants from northern Europe (Norway, Russia) (Appendix S2). Eastern North American

plants also form a single clade that spans at least from Wisconsin and Pennsylvania to subarctic Quebec. All European plants (including those from western Russia) form a clade nested within the overall North American paraphyletic group. Similarly, all European (Norwegian) samples of *S. flexuosum* form a clade that is nested within North American samples of that species. *Sphagnum recurvum* is restricted to eastern North America with the exception of one recorded occurrence in the Azores (Dias et al., 2009). A plant from that single European population is resolved as closely related to samples of *S. recurvum* from the southeastern U.S. (Appendix S2). Among outgroup taxa, samples of *S. majus* from the eastern U.S. are nested within European samples, but this pattern, opposite to that resolved within *S. angustifolium* and *S. flexuosum*, is based on more limited sampling.

Sampling within continents was too limited to thoroughly assess geographic structure on more local scales, but several species were sampled sufficiently from within eastern North America to suggest that some geographic structure is likely. Within *S. fallax*, for example, samples collected from the same or proximate sites within states generally group together (Appendix S2). As previously noted, Alaskan samples of *S. angustifolium* fall into two clades, both distinct from samples collected in temperate eastern U.S. Some grouping of geographically proximate samples is also evident within *S. recurvum* and *S. flexuosum* (Appendix S2).

*Cluster Analyses* – Results of cluster analyses based on STRUCTURE parallel those from the phylogenetic analyses (Fig. 3). When all samples were analyzed as a group, at K=2 (evaluated as "optimal") the Pointed Leaf and Rounded Leaf groups were resolved, with *S. balticum* showing substantial admixture between the two. *Sphagnum pacificum* and *S. obtusum* also showed admixture, but to a very limited extent (Fig. 2). As with the phylogenetic analyses, no distinction is evident between *S. fallax, S. brevifolium*, and *S. isoviitae*.

Separate analyses of the Pointed and Rounded Leaf groups (left and right, respectively, in Fig. 3) reveal additional genetic structure. For the Pointed Leaf group, at K=3 (optimal), two genotype groups are resolved within the phylogenetic species, *S. fallax*. Norwegian samples identified as *S. brevifolium* and *S. isoviitae* all belong to one of those two groups (Fig. 2), but the group also includes

plants that appeared to be unambiguous *S. fallax* s. str. North American samples identified as *S. brevifolium* or *S. isoviitae* are scattered across the same *S. fallax* genotype groups. *Sphagnum pacificum* and *S.* "pseudopacificum", in contrast, are genetically divergent from both of the two *S. fallax* genotype groups. In an analysis of *S. fallax* alone (including *S. brevifolium* and *S. isoviitae*), K=2 was considered optimal, and this resolves European and North American samples of this species but does not resolve *S. fallax*, *S. brevifolium*, and *S. isoviitae* (which all occur on both continents; Fig. 2). Even at K=3 or K=4, we found no additional genetic structure to support separating *S. brevifolium* or *S. isoviitae* from *S. fallax* (results not shown).

In a separate analysis of the Rounded Leaf group, the optimal K=2. One of the genotype groups is fixed within *S. angustifolium* and the other in *S. flexuosum*, with *S. recurvum* and *S. obtusum* showing different patterns of admixture for the two genotype groups. At K=4, each of the four morphospecies, *S. angustifolium*, *S. flexuosum*, *S. recurvum*, and *S. obtusum*, are resolved as different clusters. Within *S. angustifolium*, at K=2, eastern North American and European samples belong to the same genetic group (light grey in Fig. 2) and the western North American (mainly Alaskan) plants mostly belong to a different genetic group but with some admixture. Moreover, five Alaskan plants belong to the light grey genotype group, otherwise restricted to eastern North American and European plants. At increasing levels of K, additional genetic structure is suggested within *S. angustifolium*, but also with increasing evidence of admixture (Appendix S3). At K=4, the two phylogenetically resolved groups of Alaskan plants belong to separate clusters. Within *S. flexuosum*, European and eastern North American plants belong to different genotype groups, with a limited amount of admixture (Fig. 2).

Genetic patterns resolved by phylogenetic and STRUCTURE analyses are corroborated by principal components analyses (PCA) (Appendix S4). Differentiation between the Rounded and Pointed Leaf groups is strong (Appendix S4A), as are morphospecies within those groups (Appendix S4B, C). Differentiation between European and North American plants within *S. fallax* (Appendix S4D) and *S. flexuosum* (Appendix S4G) is also evident. Moreover, the greater genetic similarity between *S. angustifolium* plants from eastern North America and Europe compared to either with western North

American plants is clear, as is the occurrence of two genetically divergent groups of *S. angustifolium* plants from Alaska (Appendix S4E). The PCA also corroborates differentiation of S. "pseudopacificum" and *S. pacificum* (Appendix S4F).

*Genetic differentiation and diversity* – Genetic differentiation (estimated by Nei's D and Fst) among species in the *S. recurvum* complex is generally low, corroborating the view that this is a group of very closely related species (Table 1). In fact, differentiation is also low (Fst < 0.4) between the Rounded and Pointed groups of species within the complex, and some species within those two groups are more differentiated than are the groups.

For all estimated statistics, the Rounded Leaf group of species contains higher genetic diversity, and more private alleles, than the Pointed Leaf group, although the sample size was somewhat larger for the latter than the former (Table 2). Within the Pointed Leaf group, the most common species (and most sampled), *S. fallax*, contains the highest levels of genetic diversity; similarly, *S. angustifolium*, which is the most common species (and most abundantly sampled), is more genetically diverse than any other Rounded Leaf species (Table 2).

#### DISCUSSION

*Systematic/taxonomic implications* – Both circumscription of the *S. recurvum* complex and the numbers of species within it have been disputed, and our results inform both issues. The core species comprising the complex (Flatberg 1989, 1992a,b; Laine et al., 2018; McQueen and Andrus, 2007) are *S. brevifolium*, *S. fallax*, *S. flexuosum*, *S. isoviitae*, *S. pacificum*, and *S. recurvum*. It is referred to as the *S. recurvum* complex because that species was the first described. Members of the complex typically have two side by side branch buds in the lower parts of the capitula whereas most Sphagna have them one above the other or single. These species are further characterized (though not unique to these within subg. *Cuspidata*) by the arrangement of pores on the branch leaves: few other than a single conspicuous pore near the distal end of each hyaline cell on the outer (convex or abaxial)

surface, and more numerous, larger round pores on the inner (convex, adaxial) surface. Finally, compared to other taxa in the subg. *Cuspidata*, species in the *S. recurvum* group are generally characterized by relatively short stem leaves, sometimes barely longer than wide, although this trait is somewhat variable (as shown in Fig. 2).

Flatberg (1992a) noted that *S. balticum* and *S. pulchrum* appear to be closely related to the *S. recurvum* complex and that the decision to exclude them from his taxonomic studies on this group was largely arbitrary. Based on phylogenetic analyses of organellar (plastid, mitochondrial) genome sequences, *S. balticum* is nested within the *S. recurvum* complex (Shaw et. al., 2016), and our results corroborate that conclusion. *Sphagnum balticum* lacks the paired branch buds generally characteristic of the core species, and the stem leaves are somewhat longer than in the other species (Fig. 2). They also spread widely from the stem, unlike the more pendent-spreading stem leaves of most *S. recurvum* complex species. The branch leaf pore pattern, typically with one prominent distal pore on the outer surface of each hyaline cell and more numerous, round, larger pores inside, is similar to that of the core species. *Sphagnum obtusum*, also shown here to be part of the *S. recurvum* complex, has a somewhat different branch leaf pore structure than the others. Outer pores are more numerous, sometimes in commissural rows, and are often faint and poorly defined.

Sphagnum pulchrum, in contrast, falls outside the *S. recurvum* complex, in a clade that includes the gametophytically haploid *S. annulatum*. That clade also includes two allopolyploid species (i.e., diploid gametophytes, tetraploid sporophytes) that share *S. annulatum* as one of their parents. *Sphagnum majus* is derived from a cross between *S. annulatum* and *S. cuspidatum* (Såstad et al., 2000), and *S. jensenii* derives from a cross between *S. annulatum* and *S. balticum* (Såstad et al., 1999a). Both *S. annulatum, S. majus* and *S. jensenii* differ morphologically by numerous pores on the convex surface of branch leaves, stem leaves much longer than broad, and stem cortex 2-3 cells wide (except in *S. annulatum*). Flatberg (1992a), based on morphology, noted that *S. pulchrum* appears to bridge the *S. recurvum* and *S. annulatum* complexes; our results indicate that *S. pulchrum* shares a recent common ancestor with *S. annulatum* and is not in any way phylogenetically intermediate between the two groups.

Several species in the S. recurvum complex are reported from South America and/or other tropical areas and genetic analyses are needed to determine if in fact those plants are conspecific with the temperate and boreal (to subarctic) samples included in this study. Some northern Sphagnum species definitely do occur at low latitudes but some samples from South America identified as S. recurvum, for example, are allopolyploids (unlike northern S. recurvum) and are clearly not conspecific (unpublished data). Flatberg (1992a) speculated that S. recurvum could be conspecific with two tropical species, S. pulchricoma and S. cuspidatulum, which would imply that S. recurvum has a pantropical range that includes South America, Africa, and Asia. This view is not supported by genetic information from microsatellites, however, which indicates that both S. pulchricoma and S. cuspidatulum are distinct from S. recurvum (Karlin et al., 2014). We can only confirm the occurrence of S. recurvum is eastern North America, with a single known European locality, in the Azores (Dias et al., 2009). That collection from the Azores falls within the S. recurvum clade in our analyses (Appendix S2), closely related to collections from the southeastern U.S. Nevertheless, in addition to cases of northern species possibly occurring in tropical regions, there could be other, distinct, tropical species that would fall within the S. recurvum complex. The current circumscription of the complex, limited to the northern species included in this study, is necessarily a work-in-progress.

Our analyses resolve eight clades within the *S. recurvum* complex, seven corresponding to widely recognized species, plus S. "pseudopacificum". Crum (1984) considered plants that we attribute to *S. angustifolium*, *S. fallax*, *S. flexuosum*, and *S. recurvum* as conspecific (*S. recurvum* s. lat.). *Sphagnum pacificum* had not been described at the time, and Crum did not consider *S. balticum* or *S. obtusum* as part of the *S. recurvum* complex. McQueen and Andrus (2007) recognized all of the taxa we resolve here as distinct species and added S. *rubruflexuosum*, describing this new species from a few sites in Pennsylvania and Maryland (Andrus, 1988). Plants that we included in the present analyses from the type locality for *S. rubroflexuosum* were genetically indistinguishable from *S. flexuosum*.

The two major clades within the *S. recurvum* complex, referred to here as the Rounded and Pointed Leaf groups, correspond more or less to groups recognized previously (Flatberg 1992a). The

Pointed leaf group contains *S. fallax* (including *S. brevifolium* and *S. isoviitae*) and *S. pacificum*, plus the clade resolved as S. "pseudopacificum" in our analyses. These species are characterized by acute to apiculate stem leaves (Fig. 2), and also share yellow spores and somewhat differentiated stem cortical cells. Our results show that *S. balticum* is part of this clade as well; it has broadly and bluntly acute stems leaves, but does have yellow spores and a more or less differentiated cortex (Flatberg 1992a). Species in the Rounded Leaf group, including *S. angustifolium*, *S. flexuosum*, *S. obtusum*, and *S. recurvum*, have brown spores, stem cortex little or not differentiated, and rounded stem leaf apices that are obviously and characteristically resorbed. That apical resorption is minimal in *S. angustifolium* compared to the other species in this subgroup (Fig.2: 25-49). Our results show that these morphological traits generally track phylogenetic relationships within the complex with regard to the grouping of species into more inclusive clades.

In terms of species delineation, the most controversial issue in the complex pertains to the delineation of S. fallax, S. isoviitae, and S. brevifolium. Both S. fallax and S. brevifolium were described in the 19<sup>th</sup> century (S. cuspidatum var. fallax Klinggräff and S. cuspidatum var. brevifolium Röll, respectively). Flatberg (1992a) described S. isoviitae from central Norway as part of his taxonomic studies on the S. recurvum complex. These three species are closely related morphotypes within the Pointed Leaf group and frequently grow intimately mixed (Fig. 4). Flatberg and collaborators (Flatberg, 1992a, b; Såstad and Flatberg, 1994; Stenøien et al., 1997; Såstad et al., 1999b) have conducted a series of morphometric, experimental, and genetic studies to test the occurrence and degree of discontinuity among them and concluded that the three can be distinguished morphologically (although weakly so, at best, for S. fallax vs. S. isoviitae). They are frequently distinguishable in the field and/or as dried specimens, and differ in color, capitulum shape, branch leaf shape and arrangement (e.g., the degree of ranking [running in rows]), and the extent to which the branch leaves of the inner part of the capitula recurve when dry. They can also differ subtly in microscopic characters including the shape of the chlorophyllose cells in transverse section. Såstad et al (1999a) showed that whereas isozyme and RAPD markers evidenced genetic differentiation among S. recurvum, S. angustifolium, and S. flexuosum in the Rounded Leaf group, no such

differentiation was detected among *S. fallax*, *S. brevifolium*, and *S. isoviitae* in the Pointed Leaf group. Using microsatellites, Szurdoki et al. (2014) showed that *S. angustifolium*, *S. fallax*, and *S. flexuosum* are genetically distinct, but they did not address the issue of *S. fallax* vs. *S. isoviitae* or *S. brevifolium*.

Neither North American nor Norwegian samples in our data set that had been identified morphologically as *S. brevifolium* or *S. isoviitae* were distinguishable from *S. fallax* based on the RADseq data. Our data provide no hint of genetic divergence within *S. fallax* that could be construed as evidence in favor of separating *S. brevifolium*, *S. isoviitae*, or *S. rubroflexuosum*. Analyses using STRUCTURE identified two genotype groups within *S. fallax*, but these groups do not correspond to these morphotypes. Our results strongly suggest that neither *S. brevifolium* nor *S. isoviitae* represent phylogenetically distinct species, but are rather morphotypes nested within *S. fallax*.

The absence of differentiation using the molecular markers employed here does not bear on the question of whether the morphological characters used to distinguish them as species are genetically based. Indeed, the fact that morphs corresponding to *S. brevifolium* and *S. isoviitae* are often distinguishable in both Scandinavia and eastern North America suggest that they may well represent genetic variants. It could be that a limited number of genes control those morphological traits, and that they are polymorphic within *S. fallax*.

Szurdoki et al. (2014) found that *S. angustifolium*, *S. fallax*, and *S. flexuosum* could be distinguished by molecular data, but suggested that their genetic delineation was sometimes incongruent with morphological patterns. We also first found that some of our plant identifications for these taxa conflicted with subsequent molecular phylogenetic results, but reexamination of all specimens included in the project indicated that essentially every case of morphological-genetic incongruence involved initial misidentifications (by us). One result of our reexaminations was that *S. fallax* turned out to be more common in eastern North America than *S. angustifolium*, and occupies a broader niche range than we (or others; Johnson et al., 2014) had realized. *Sphagnum angustifolium* is generally thought to form hummocks whereas *S. fallax* typically grows in lawns and carpets closer to the water table. Our study suggests that not only is *S. fallax* more common than *S. angustifolium* in eastern North America, it forms low hummocks rather commonly.

**Genetic admixture** – STRUCTURE software identified genotypic groups within the complex and by conducting hierarchical analyses at different phylogenetic levels (within and between clades) we found some evidence of genotypic admixture within plants. This admixture can reflect retention of ancestral polymorphism and/or introgression. Sphagnum balticum is the only species that appeared to have a substantially admixed structure combining genetic attributes of the Rounded and Pointed Leaf clades (Fig. 3). This species is especially variable morphologically, combines stem leaf structure of the two groups (i.e., bluntly acute to rounded stem leaves in the Pointed Leaf clade), and was involved as the paternal parent in hybridization (with another species of the subg. Cuspidata, S. tenellum) that yielded the allopolyploid species, S. troendelagicum (Stenøien et al., 2010). As such, S. balticum is a species that invites additional study of genetic structure and the possibility of interspecific introgression across its broad intercontinental range. It may be a central figure facilitating genetic exchange between members of the S. recurvum complex, and beyond, in the subg. Cuspidata. Despite the fact that other species in the complex grow mixed in wet microsites that could facilitate interspecific hybridization, we found surprisingly little evidence of interspecific admixture. Additional analyses are needed, however, since STRUCTURE may not reveal introgression if it occurred long enough in the past for subsequent coalescence within species that are largely reproductively isolated.

*Geographic patterns* – Low but non-zero levels of migration/gene flow have been detected between North American and European plants of several *Sphagnum* species (Szövényi et al., 2008; Stenøien et al., 2011), and similarly between western North American and eastern Asian plants (Shaw et al., 2014, 2015). Dating of divergences between European and North American conspecifics have generally inferred Pleistocene time scales (Szövényi et al., 2008; Stenøien et al., 2011).

Both the Rounded Leaf and Pointed Leaf groups within the *S. recurvum* complex have intercontinental ranges that include Europe, Asia, and North America. We detected geographic structure within the three species that have the broadest geographic ranges: *S. fallax* in the Pointed Leaf group; *S. angustifolium* and *S. flexuosum* in the Rounded Leaf group. In *S. fallax*, eastern North

American and European clades are reciprocally monophyletic. This species does not occur in western North America. *Sphagnum angustifolium* does occur in all three regions and its phylogenetic structure is complex. There are multiple, geographically correlated clades. Alaska alone harbors plants representing genetically and phylogenetically divergent *S.angustifolium* plants. In *S. flexuosum*, European plants form a clade that is nested within a paraphyletic group of North American samples.

Vigalondo et al. (2019) found that a species generally interpreted as having a broad intercontinental distribution in the moss family Orthotrichaceae consists of more or less allopatric clades that also differ in multivariate patterns of morphological variation. Citing other recent studies that have found similar phylogenetic structure within supposedly widespread species, Vigalondo et al. (2019) suggested that species diversity in mosses and liverworts may be significantly underestimated. Evidence to support this broad conclusion is currently limited to fewer than a half dozen bryophyte species/complexes (with a total of some 20,000 species in the combined phyla), and it is noteworthy that all are tropical to temperate groups. The situation in *Sphagnum*, as an example of common and widespread temperate to boreal bryophytes, may be different. As data accumulate, we see a pattern in *Sphagnum* of detectable but minimal divergence among metapopulation systems on different continents. This pattern may be generally true among species that are ecologically abundant community dominants around the Northern Hemisphere. Life history correlates of differing phylogenetic structure need to be investigated. For example, the species of Orthotrichaceae studied by Vigalondo et al. (2019) may be less clonal and more short-lived than are *Sphagnum* species.

#### Key to species in the S. recurvum complex –

As our species delineations differ from those in other recent treatments of the group, we provide the key below to distinguish the seven species we resolve with RADseq data. The clade we identify as S. "pseudopacificum" requires further work, especially additional collections. It is not included in the key and would likely key out by collectors as *S. pacificum*. Because the three morphs of *S. fallax* are often distinguishable we also provide a key to distinguish them in order to encourage further research into their genetics and ecology. The brevifolium and isoviitae morphs are formally recognized by Lönnell

and Hassel (2018) as varieties of *S. fallax*; i.e. *S. fallax* var. *brevifolium* (Lindb. ex Braithw.) Lönnell & Hassel and *S. fallax* var. *isoviitae* (Flatberg) Lönnell & Hassel.

#### Key to species in the *Sphagnum recurvum* complex

1. Stem leaves bluntly acute, obtuse-truncate or truncate 2
1. Stem leaves acute or apiculate
2. Stem leaves rounded-obtuse, ± narrowly eroded at apex
2. Stem leaves obtuse-truncate to truncate, narrowly to widely eroded/fimbriate at apex 5
3. Stem leaves wide spreading; upper stem leaf cells fibrillose; branch fascicles usually with one
pendent branch S. balticum
3. Stem leaves appressed to slightly spreading; stem leaf cells efibrillose (very rarely with
rudimentary fibrils); branch fascicles with 2(-3) pendent branches 4
4. Capitula green to brownish, convex, with straight branches; stem leaves not or little longer
than wide, scarcely or not eroded apically S. angustifolium
4. Capitula usually greenish, rather flat with a knoblike inner part of short concentrically
crowded branches; stem leaves slightly but definitely longer than wide; eroded apically
S. flexuosum
5. Capitula flat; branch leaves non-recurved when dry, unranked, branch leaf cells on outer surface
with numerous small pores often in two rows; chlorophyllose cells of branch leaves in transverse
section isosceles-triangular, slightly enclosed on inner surface S. obtusum
5. Capitula +/- convex; branch leaves sharply recurved when dry, often conspicuously ranked; branch
leaf cells on outer surface usually with one apical end pore; chlorophyllose cells of branch leaves in
transverse section equilateral-triangular and broadly enclosed on inner surface S. recurvum
6. Stem leaves acute-apiculate to apiculate; branch leaf tips strongly subulate-involute above;

#### Key to Sphagnum fallax morphs

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#### **AUTHOR CONTRIBUTIONS**

A.J.S. and B.A. developed the project, conducted most of the field work, examined all plants microscopically, and participated in the lab work and data analysis. A.D. conducted the analyses and prepared the paper. H.S., K.I.F, and M.S.I. participated in field work and preparation of the paper.

#### DATA AVAILABILITY

The sequences and alignment analyzed in this study are available in Dryad ([TO BE UPLOADED UPON ACCEPTANCE]

#### SUPPORTING INFORMATION

Appendix S1. Voucher information for accessions included in the RADseq analyses.

**Appendix S2.** Phylogenetic relationships among samples of *Sphagnum recurvum* complex species and related species based on RADseq loci. Nodes with bootstrap support >50% are labeled.

**Appendix S3**. Genetic structure of *S. angustifolium* revealed by STRUCTURE analyses at increasing levels of K.

Appendix S4. Principal Components Analysis (PCA) of variation in RADseq loci among samples of
(A) all *Sphagnum recurvum* complex species, (B) Pointed Leaf species, (C) Rounded Leaf species,
(D) *S. fallax*, *S. isoviitae*, and *S. brevifolium*, (E) *S. angustifolium*, (F) *S. pacificum*, (G) *S. flexuosum*.

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#### Figure Legends

**Fig. 1.** Summary of phylogenetic relationships among *Sphagnum recurvum* complex species and related species based on RADseq loci. Relationships were estimated using maximum likelihood (left) and singular value decomposition scores for species quartets (right). Nodes are labeled with bootstrap support values.

**Fig 2.** Stem leaf variation in the *S. recurvum* complex. All photos at same magnification; scale bar = 200 µm. 1-6 = *S. fallax*, 1-2 SB5051 (*BS19013*, PE), 3-4 SB5083 (*Ignatov 2015-14*, Russia), 5-6 SB5112 (*Garrett A149*, PE same site as img 1-2). 7-12 = *S.* "pseudopacificum", 7-8 SB5225 (*Garrett AG541*, AK-Matanuska-Susitna), 9-10 SB5212 (*Garrett AG500*, AK-Alyeska), 11-12 SB5220 (*Garrett AG525*, AK-Kenai). 13-18 = *S. pacificum*, 13-14 SB5152 (*JS 2016-26A*, AK-Juneau), 15-16 SB5154 (*JS 2016-30*, AK-Whittier), 17-18 SB5179 (*Piatkowski 2017-60*, AK-Yakutat). 19-24 = *S. balticum*, 19-20 AG237 (*Garrett A225*, Norway), 21-22 AG249 (*Garrett A248*, Norway), 23-24 AG235 (*Garrett A220*, Norway). 25-31 = *S. angustifolium*, 25-26 SB5250 (*Piatkowski BP2018\_145B*, WI), 27-28 SB5077 (*Ignatov 2015-6*, Russia), 29-30 SB5230 (*Garrett AG569*, AK-Fairbanks), 31 SB5252 (*Garrett AG586*, AK-Fairbanks), 32-37 = *S. obtusum*, 32-33 SB5229 (*Garrett AG579*, AK-Fairbanks), 34-35

SB5189 (*Piatkowski BP2017\_264*, AK-Anchorage), 36-37 SB5215 (*Garrett AG513*, AK-Kenai) 38-43 = *S. flexuosum*, 38-39 SB4985 (*BS18906*, MD), 40-41 SB4976 (*Garrett A033*, MD), 42-43 SB5009 (*Garrett A075*, PA) 44-49 = *S. recurvum*, 44-45 SB4995 (*Garrett A064*, MD), 46-47 SB5109 (*Garrett A142*, PA), 48-49 SB5234 (*BA19605*, NC)

**Fig. 3.** Results of STRUCTURE analyses of RADseq loci for all *Sphagnum recurvum* complex species, for the Rounded Leaf and Pointed Leaf species separately, and for individual species. For each analysis, the optimal K-value is presented along with a higher K-value when it provides additional clustering information. *S. balticum* and *S. obtusum* were not analyzed separately due to small sample sizes, and a separate analysis of *S. recurvum* samples did not provide additional clustering information.

**Fig. 4.** Field-derived photographs of three morphologically distinguishable morphs within the phylogenetic species, *S. fallax*. These morphs are not distinguished by our molecular results but may warrant further study because of subtle morphological and ecological differences. A. fallax morph. B. brevifolium morph. C. isoviitae morph. Photos: Kjell Ivar Flatberg. License: CC BY 4.0 (Norwegian Environmental Specimen Bank).



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6 February 2020

Dear Editor:

I herewith submit a Research Article manuscript entitled **Phylogenetic structure in the** *Sphagnum recurvum* complex (Bryophyta: Sphagnaceae) relative to taxonomy and geography for consideration by the AJB.

**Note:** the data associated with this paper is available in a Dropbox folder with the Phylip format alignment of concatenated loci, and the one-snp-per-locus data in Structure format. If the paper is accepted for publication we will put them on Dryad along with the demultiplexed reads.

#### https://www.dropbox.com/sh/yem1lklg7gjkj4b/AAAV9otbHPuzp5w1bJAunJAa?dl=0

The *Sphagnum recuvum* complex is a group of closely related peatmoss species (Bryophyta) who's phylogenetic/taxonomic structure has been controversial for more than a century. The species have great ecological significance because they are important components of peat-forming wetland ecosystems that currently store some 25-30% of the total terrestrial carbon pool, and are therefore critical determinants of global climate. Moreover, peatmosses in the genus *Sphagnum* have long been utilized in research on community ecology, and more recently they have been developed as an exciting model system for comparative and ecological genomics. One species (*S. fallax*) in the *S. recurvum* complex, the focus of the current paper, has been sequenced to provide a high-quality reference genome for these purposes (supported by the JGI; paper in prep.), but its relationships to a suite of closely related species has remained ambiguous.

The specific questions this paper addresses are: (1) How many phylogenetically distinguishable species are there in the *S. recurvum* complex? (2) Is there genetic differentiation between plants on different continents such additional allopatric species are resolved, contrary to the interpretation that these species have intercontinental ranges? (3) If the species do have intercontinental ranges, is there detectable differentiation among metapopulation systems on different continents (or between eastern and western North American systems)?

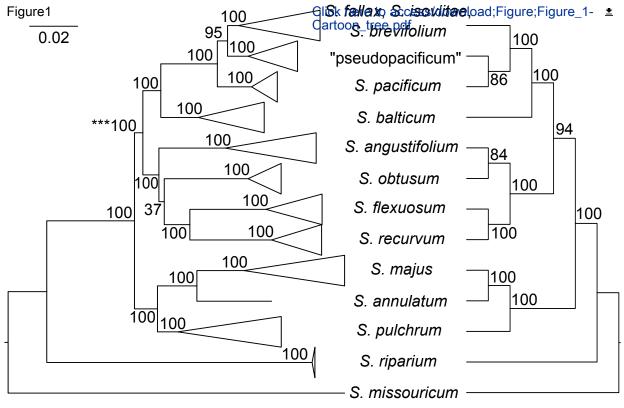
The major contribution of this research is to resolve phylogenetic relationships, using a variety of approaches, and based on genome-scale data, in a widespread complex of

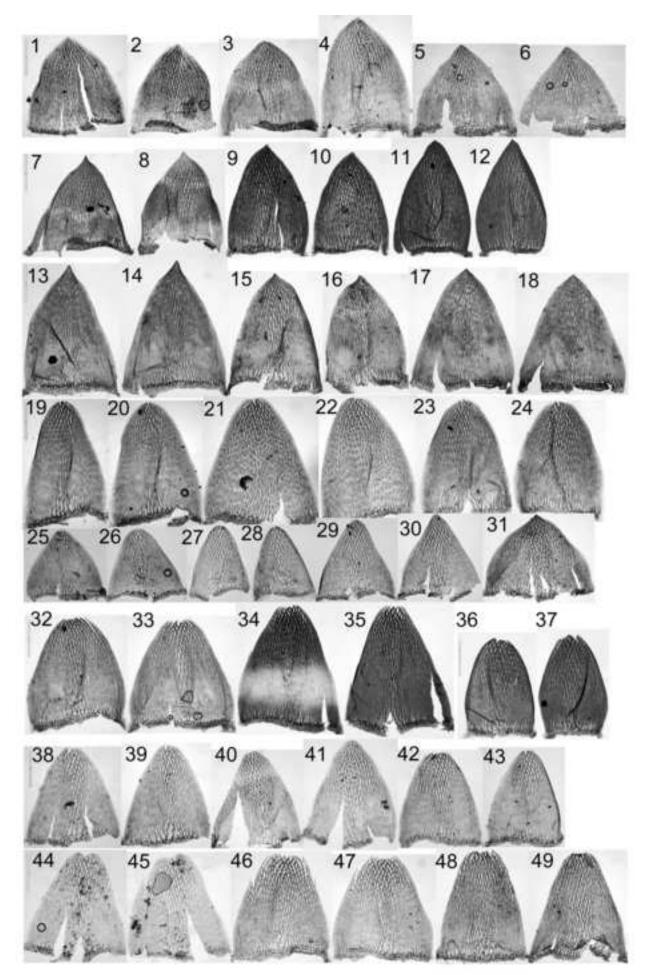
closely related spore-producing plants. We address global biogeographic patterns and document inter- and intraspecific variation within and between Northern Hemisphere continental areas. The research resolves important systematic and evolutionary questions, *and* deals formally with the taxonomic implications of those patterns. We document morphological variation and provide keys that will be important tools for ecologists and botanists working in wetland ecosystems, and more broadly, on embryophyte plants. As such, this research will be of interest to a very broad audience and can serve as a model for linking genome variation, morphology, and taxonomy.

Thank you for considering this paper for publication in the American Journal of Botany.

Jonathan Shaw Professor of Biology Duke University

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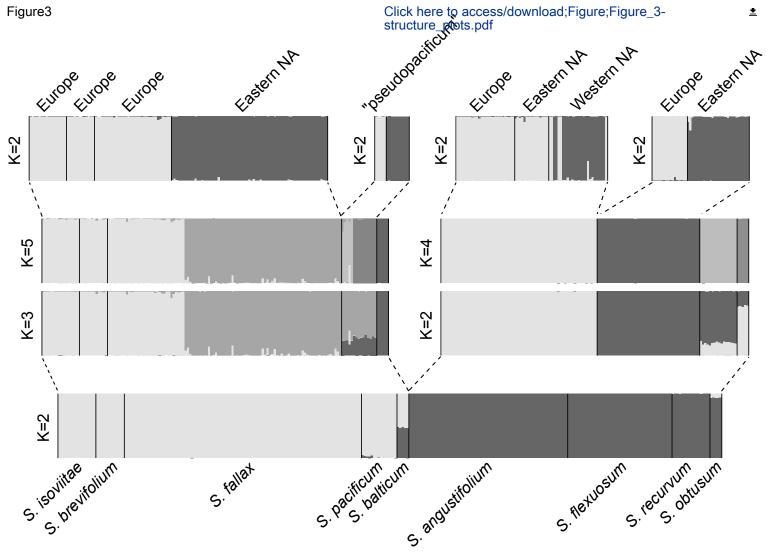


Table 1—Pairwise estimates of Nei's unbiased distance (above the diagonal) and Fst (below the diagonal) between species and leaf types in the *Sphagnum* recurvum complex.

	S. fallax	"pseudopacificum"	S. pacificum	S. balticum	S. angustifolium	S. flexuosum	S. recurvum	S. obtusum
S. fallax	0.000	0.017	0.024	0.084	0.103	0.119	0.123	0.137
"pseudopacificum"	0.041	0.000	0.035	0.080	0.105	0.121	0.129	0.135
S. pacificum	0.060	0.248	0.000	0.083	0.117	0.135	0.142	0.149
S. balticum	0.069	0.146	0.194	0.000	0.120	0.124	0.133	0.145
S. angustifolium	0.492	0.237	0.307	0.152	0.000	0.114	0.116	0.131
S. flexuosum	0.511	0.365	0.456	0.237	0.523	0.000	0.088	0.156
S. recurvum	0.250	0.157	0.283	-0.010	0.276	0.238	0.000	0.164
S. obtusum	0.115	0.318	0.381	0.045	0.128	0.220	0.010	0.000
Leaf type:								
	Pointed	Rounded						
Pointed	0	0.085						
Rounded	0.336	0						

Table 2—Genetic variability in species and leaf-types in the *Sphagnum recurvum* complex. N, number of individuals for each species or genetic cluster excluding clones and individuals showing >10% admixture between clusters; PPL, percent polymorphic loci; Na, mean alleles per locus; Ne, mean effective number of alleles per locus; PPr, percent private alleles; I, Shannon's information index.

	Ν	PPL	Na ±SE	Ne ±SE	PPr	I ±SE
Total	280	100.00	$1.558 \pm 0.015$	$1.122 \pm 0.007$		0.131 ±0.006
Pointed Leaf	148	41.24	$1.418 \pm 0.021$	$1.082 \pm 0.009$	23.76	$0.091 \pm 0.007$
S. fallax	128	29.51	$1.300 \pm 0.023$	$1.070 \pm 0.010$	13.33	$0.073 \pm 0.008$
"pseudopacificum"	5	7.73	$1.077 \pm 0.013$	$1.049 \pm 0.009$	1.09	$0.044 \pm 0.007$
S. pacificum	10	5.62	$1.056 \pm 0.011$	$1.031 \pm 0.007$	2.00	$0.029 \pm 0.006$
S. balticum	5	5.39	$1.054 \pm 0.011$	$1.037 \pm 0.008$	3.78	$0.032 \pm 0.006$
Rounded Leaf	132	68.38	$1.699 \pm 0.020$	$1.163 \pm 0.012$	36.40	$0.171 \pm 0.009$
S. angustifolium	67	27.40	$1.274 \pm 0.022$	$1.076 \pm 0.010$	14.89	$0.079 \pm 0.008$
S. flexuosum	44	16.63	$1.169 \pm 0.018$	$1.056 \pm 0.009$	10.42	$0.058 \pm 0.008$
S. recurvum	16	14.75	$1.148 \pm 0.017$	$1.046 \pm 0.007$	11.43	$0.053 \pm 0.007$
S. obtusum	5	7.73	$1.077 \pm 0.013$	$1.052 \pm 0.009$	8.70	$0.045 \pm 0.008$

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| DNA<br>isolate plate barcode   
   | Sphagnum species  
   
   | Collectors   | Col. nr.   
   
   | Country   | State/Province   | County/District  
  | Collection<br>Date  | Locality short   | Locality full   | Loc abbr  
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| AG194 1 GACTCGTT<br>AG195 1 AGTTAGTT   
   |   
   
   |  |  
   
   |   | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Trondheim   
  |   |  | Gråkallen<br>Gråkallen  |   
   |
| AG197 1 CAGATCTT<br>AG198 1 CTATCCTT   
   |   
   
   |  | A159<br>A161   
   
   | Norway<br>Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Trondheim   
  |   |  | Gräkallen<br>Gräkallen  |   
   |
| AG199 1 GGTACCTT   
   | fallax  
   
   | A. Garrett   | A164<br>A165   
   
   | Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Trondheim   
  | 8/12/13   | 3 Gråkallen  | Gräkallen   |   
   |
| AG201 1 AGAGTATT   
   | flexuosum   
   
   | A. Garrett   | A166   
   
   | Norway  | Sør-Trøndelag  | Trondheim  
  | 8/12/13   | 3 Gråkallen  | Gräkallen<br>Gräkallen  |   
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   | A. Garrett   | A167<br>A168   
   
   |   | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Trondheim   
  |   |  | Gråkallen<br>Gråkallen  |   
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   |  | A170<br>A171   
   
   |   | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Trondheim   
  |   |  | Gråkallen<br>Gråkallen  |   
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   |  | A175<br>A177   
   
   |   | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Orkdal  
  |   |  | Gråkallen<br>Husdalen, series of mires around lake Husdalsvatnet  |   
   |
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   |   
   
   |  | A178<br>A180   
   
   |   |  | Orkdal<br>Orkdal   
  | 8/13/13   |  | Husdalen, series of mires around lake Husdalsvatnet<br>Husdalen, series of mires around lake Husdalsvatnet  |   
   |
| AG212 1 AGTCGTCT   
   | fallax  
   
   | A. Garrett   | A182   
   
   | Norway  | Sør-Trøndelag  | Orkdal   
  | 8/13/13   | 3 Husdalen   | Husdalen, series of mires around lake Husdalsvatnet   |   
   |
| AG214 1 CGGAGACT   
   | brevifolium   
   
   | A. Garrett   | A184<br>A186   
   
   |   | Sør-Trøndelag  | Orkdal<br>Orkdal   
  |   | 3 Husdalen   | Husdalen, series of mires around lake Husdalsvatnet<br>Husdalen, series of mires around lake Husdalsvatnet  |   
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   |  | A188<br>A190   
   
   |   | Sør-Trøndelag  | Orkdal<br>Orkdal   
  |   |  | Husdalen, series of mires around lake Husdalsvatnet Husdalen, series of mires around lake Husdalsvatnet   |   
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   |  | A192<br>A193   
   
   |   |  | Orkdal<br>Orkdal   
  |   |  | Husdalen, series of mires around lake Husdalsvatnet<br>Husdalen, series of mires around lake Husdalsvatnet  |   
   |
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   |  | A194<br>A197   
   
   |   | Sør-Trøndelag<br>Sør-Trøndelag   | Orkdal<br>Trondheim  
  | 8/13/13<br>8/14/13  |  | Husdalen, series of mires around lake Husdalsvatnet<br>Skiela, mountain-side by parking lot   |   
   |
| AG221 1 AATACGAT   
   | isoviitae   
   
   | A. Garrett   | A198<br>A201   
   
   | Norway  |  | Trondheim<br>Trondheim   
  | 8/14/1  | 3 Skjøla   | Skjøla. Vassfjellet Chapel<br>Skjøla. Vassfjellet Chapel  |   
   |
| AG225 1 ATAGGCTG   
   | angustifolium   
   
   | A. Garrett   | A205   
   
   | Norway  | Sør-Trøndelag  | Trondheim  
  | 8/14/13   | 3 Skjøla   | Skjøla. Vassfjellet Chapel  |   
   |
| AG227 1 GCCATATG   
   | fallax  
   
   | A. Garrett   | A208<br>A209   
   
   |   | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Trondheim   
  |   | 3 Skjøla   | Skjøla. Vassfjellet Chapel<br>Skjøla. Vassfjellet Chapel  |   
   |
| AG229 1 CAAGATGG   
   | fallax  
   
   | A. Garrett   | A210<br>A211   
   
   | Norway<br>Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Trondheim<br>Klæbu   
  | 8/14/13   |  | Skjøla. Vassfjellet Chapel<br>Tømmerdalsmyran mire  |   
   |
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   |  | A212<br>A214   
   
   | Norway<br>Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Klæbu<br>Melhus  
  |   | 3 Tømmerdalsmyran<br>3 Endurshaugen  | Tømmerdalsmyran mire<br>Endurshaugen  |   
   |
| AG232 1 TCGCGAGG<br>AG233 1 GATAGAGG   
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   |  | A215<br>A218   
   
   | Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Melhus<br>Melhus   
  | 8/14/13   | B Endurshaugen   | Endurshaugen  |   
   |
| AG234 1 ACCGAAGG   
   | flexuosum   
   
   | A. Garrett   | A219   
   
   | Norway  | Sør-Trøndelag  | Melhus   
  | 8/14/13   | 3 Endurshaugen   | Endurshaugen  |   
   |
| AG237 1 ATGATTAG   
   | balticum  
   
   | A. Garrett   | A225   
   
   | Norway  |  | Melhus<br>Klæbu  
  | 8/14/13   | 3 Damtjønnbekken   | Endurshaugen<br>Damtjønnbekken W Stream fen   |   
   |
| AG239 1 TTCTTCAG   
   | flexuosum   
   
   | A. Garrett   | A226<br>A227   
   
   | Norway  |  | Klæbu<br>Klæbu   
  | 8/14/13   | 3 Damtjønnbekken   | Damtjønnbekken W Stream fen<br>Damtjønnbekken W Stream fen  |   
   |
| AG241 1 TTAGCAAG   
   | brevifolium   
   
   | A. Garrett   | A228<br>A232   
   
   | Norway<br>Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Klæbu<br>Klæbu   
  | 8/14/13   | 3 Damtjønnbekken   | Damtjønnbekken W Stream fen<br>Damtjønnbekken W Stream fen  |   
   |
| AG242 1 AACCGTTC   
   | brevifolium   
   
   | A. Garrett   | A233   
   
   | Norway  | Sør-Trøndelag<br>Sør-Trøndelag   | Klæbu<br>Klæbu   
  | 8/14/13   | 3 Damtjønnbekken   | Damtjønnbekken W Stream fen<br>Damtjønnbekken W Stream fen  |   
   |
|  
   | brevifolium   
   
   | A. Garrett   | A236<br>A238   
   
   | Norway  | Nord-Trøndelag   | Steinkjer<br>Steinkjer   
  | 8/15/13   | B Henningvatnet  | Henningvatnet<br>Henningvatnet  |   
   |
| AG246 1 TCGCTCTC   
   | fallax  
   
   | A. Garrett   | A239   
   
   | Norway  | Nord-Trøndelag   | Steinkjer  
  | 8/15/13   | 3 Henningvatnet  | Henningvatnet   |   
   |
| AG248 1 AGCGCGGC   
   | isoviitae   
   
   | A. Garrett   | A241<br>A242   
   
   | Norway  |  | Steinkjer<br>Steinkjer   
  | 8/15/13   | 3 Henningvatnet  | Henningvatnet<br>Henningvatnet  |   
   |
| AG250 1 GGAATAGC   
   | brevifolium   
   
   | A. Garrett   | A249   
   
   | Norway  |  | Steinkjer<br>Steinkjer   
  | 8/15/1  | 3 Henningvatnet  | Henningvatnet<br>Henningvatnet  |   
   |
|  
   | isoviitae   
   
   |  | A250<br>A251   
   
   | Norway  | Nord-Trøndelag   | Steinkjer<br>Steinkjer   
  | 8/15/13   | 3 Henningvatnet  | Henningvatnet<br>Henningvatnet  |   
   |
|  
   | isoviitae   
   
   | A. Garrett   | A252<br>A254   
   
   | Norway  | Nord-Trøndelag   | Steinkjer<br>Steinkjer   
  | 8/15/13   | 3 Henningvatnet  | Henningvattet<br>Henningvattet  |   
   |
| AG255 1 TTGCGTCC   
   | fallax  
   
   | A. Garrett   | A254   
   
   | Norway  | Nord-Trøndelag   | Steinkjer  
  | 8/15/13   | 3 Henningvatnet  | Henningvatnet   |   
   |
| AG257 1 CAGGCTCC   
   | flexuosum   
   
   | A. Garrett   |  
   
   | Norway  | Nord-Trøndelag<br>Nord-Trøndelag   | Steinkjer<br>Grong   
  | 8/15/1  | 3 Hela   | Henningvatnet<br>Hela   |   
   |
| AG258 1 TGAACTCC<br>AG259 1 AGATTGCC   
   |   
   
   |  | A259<br>A260   
   
   |   |  | Grong<br>Grong   
  | 8/15/13<br>8/15/13  |  | Heia<br>Heia  |   
   |
| AG260 1 GGTAGGCC<br>AG261 1 CTACCGCC   
   |   
   
   |  | A261<br>A262   
   
   |   | Nord-Trøndelag<br>Nord-Trøndelag   | Grong<br>Grong   
  | 8/15/13   |  | Hela<br>Hela  |   
   |
|  
   | angustifolium   
   
   | A. Garrett   | A263<br>A264   
   
   | Norway  | Nord-Trøndelag   | Grong<br>Grong   
  | 8/15/13   | 3 Hela   | Hela  |   
   |
| AG264 1 CCGTTACC   
   | brevifolium   
   
   | A. Garrett   | A267   
   
   | Norway  | Nord-Trøndelag   | Høylandet  
  | 8/16/13   | 3 Gresstjønna  | Gresstjønna lake and Latmyrbukta  |   
   |
| AG266 1 ATAAGACC   
   | fallax  
   
   | A. Garrett   | A271<br>A272   
   
   | Norway  | Nord-Trøndelag<br>Nord-Trøndelag   | Høylandet<br>Høylandet   
  |   |  | Gresstjønna lake and Latmyrbukta<br>Gresstjønna lake and Latmyrbukta  |   
   |
| AG267 1 CGAGAACC<br>AG268 1 GTCCAACC   
   |   
   
   |  | A273<br>A274   
   
   | Norway<br>Norway  | Nord-Trøndelag<br>Nord-Trøndelag   | Høylandet<br>Høylandet   
  |   |  | Gresstjønna lake and Latmyrbukta<br>Gresstjønna lake and Latmyrbukta  |   
   |
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   |  | A279   
   
   | Norway  | Nord-Trøndelag<br>Nord-Trøndelag   | Høylandet<br>Høylandet   
  |   |  | Gresstjønna lake and Latmyrbukta<br>Gresstjønna lake and Latmyrbukta  |   
   |
|  
   | fallax  
   
   | A. Garrett   | A281<br>A282   
   
   | Norway  | Nord-Trøndelag<br>Nord-Trøndelag   | Høylandet<br>Høylandet   
  | 8/16/13   | 3 Gresstjønna  | Gresstjønna lake and Latmyrbukta<br>Gresstjønna lake and Latmyrbukta  |   
   |
| AG274 1 GAACCAAC<br>AG275 1 TTGCAGTA   
   | fallax  
   
   | A. Garrett   | A283   
   
   | Norway  | Nord-Trøndelag   | Høylandet  
  | 8/16/13   | 3 Gresstjønna  | Gresstjønna lake and Latmyrbukta  |   
   |
| AG276 1 GACGGCTA   
   | fallax  
   
   | A. Garrett   | A285   
   
   | Norway  | Nord-Trøndelag<br>Nord-Trøndelag   | Høylandet<br>Høylandet   
  | 8/16/13   | 3 Gresstjønna  | Gresstjønna lake and Latmyrbukta<br>Gresstjønna lake and Latmyrbukta  |   
   |
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   |   
   
   | A. Garrett   | A287   
   
   | Norway  | Sor-Trøndelag  | Høylandet<br>Klæbu   
  |   | 3 Målsjømyran  | Gresstjønna lake and Latmyrbukta<br>Målsjømyran   |   
   |
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   | Norway  | Sor-Trøndelag  | Klæbu  
  | 8/17/13   | 3 Målsjømyran  |   |   
   |
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   |   
   
   | A. Garrett   | A290   
   
   | Norway  | Sor-Trøndelag  | Klæbu  
  |   | 3 Målsjømyran  | Målsjømyran<br>Målsjømyran  |   
   |
| AG281 1 GGTCTCGA   
   | flexuosum   
   
   | A. Garrett   | A291   
   
   | Norway<br>Norway  | Sor-Trøndelag<br>Sor-Trøndelag   | Klæbu  
  | 8/17/1  | 3 Målsjømyran<br>3 Målsjømyran   | Målsjømyran<br>Målsjømyran  |   
   |
| AG281 1 GGTCTCGA<br>AG282 1 AATTGCGA<br>AG283 1 GCGTACGA   
   | flexuosum<br>isoviitae<br>brevifolium   
   
   | A. Garrett<br>A. Garrett<br>A. Garrett   | A291<br>A292<br>A293   
   
   | Norway<br>Norway<br>Norway<br>Norway  | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag   | Klæbu<br>Klæbu<br>Klæbu  
  | 8/17/13<br>8/17/13<br>8/17/13<br>8/17/13  | 3 Målsjørnyvan<br>3 Målsjørnyvan<br>3 Målsjørnyvan<br>3 Målsjørnyvan   | Målsjømyran<br>Målsjømyran<br>Målsjømyran<br>Målsjømyran  |   
   |
| AG281         1         GGTCTCGA           AG282         1         AATTGCGA           AG283         1         GCGTACGA           AG285         1         CCGCGCCA           AG286         1         ACTGGTAA   
   | flexuosum // // // // // // // // // // // // //  
   
   | A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett   | A291<br>A292<br>A293<br>A298<br>A300   
   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway  | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag   | Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu  
  | 8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/17/13  | 3 Milsjømyran<br>3 Milsjømyran<br>3 Milsjømyran<br>3 Milsjømyran<br>3 Milsjømyran<br>3 Milsjømyran   | Miligimyan<br>Miligimyan<br>Miligimyan<br>Miligimyan<br>Miligimyan<br>Miligimyan  |   
   |
| AG281         1         GGTCTCGA           AG282         1         AATTGCGA           AG283         1         GCGTACGA           AG285         1         CCGCGCCA           AG285         1         CCGGCGA           AG285         1         CCGTACGAA           AG285         1         CCGTCGCAA           AG395         1         GCTTCGAA           SB4957         2         GACTCGTT   
   | flexuosum<br>isoviitae<br>brevifolium<br>angustfolium<br>angustfolium<br>flexuosum<br>faliax  
   
   | A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett   | A291<br>A292<br>A293<br>A298<br>A300<br>A278<br>A003   
   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA   | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Nord-Trøndelag<br>West Virginia   | Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Høylandet<br>Grant Co.  
  | 8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/16/13<br>20-Jun-13  | 3 Målsjømyran<br>3 Målsjømyran<br>3 Målsjømyran<br>3 Målsjømyran<br>3 Målsjømyran<br>3 Gresstjønna<br>0 obly Sods  | Mäligimyran<br>Mäligimyran<br>Mäligimyran<br>Mäligimyran<br>Mäligimyran<br>Gresstjona lake and Latmyrbukta<br>Gresstjona lake and Latmyrbukta<br>Ji mi Ed Dolly Sode. Proci: Ground on FR19. Peor fen with smal   |   
   |
| AG281         1         GGTCTCGA           AG282         1         AATTGCGA           AG283         1         GCGTACGA           AG285         1         GCGTACGA           AG285         1         CCGCGCCA           AG285         1         CCTGGTAC           AG285         1         GCTCTGGAA           AG395         1         GCTCGAA           S84957         2         AGCTGTT           S84958         2         TAAGAGTT           S84959         2         TAAGAGTT   
   | flexuodum<br>isovitae<br>breefolium<br>angustifolium<br>angustifolium<br>flexuodum<br>fallax<br>fallax<br>fallax<br>fallax<br>fallax  
   
   | A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett   | A291<br>A292<br>A293<br>A298<br>A300<br>A278<br>A003<br>A003<br>A006<br>A007   
   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA  | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Nord-Trøndelag<br>Nord-Trøndelag<br>West Virginia<br>West Virginia  | Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Grant Co.<br>Grant Co.<br>Grant Co.  
  | 8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/17/13<br>8/16/13<br>20-Jun-13<br>20-Jun-13<br>20-Jun-13  | MAšigemyran     Mašigemyran     Mašigemyran     Mašigemyran     Mašigemyran     Mašigemyran     Mašigemyran     Mašigemyran     Mašigemyran     Dally Sods     Dally Sods     Dally Sods   | Mikijemyran<br>Mikijemyran<br>Mikijemyran<br>Mikijemyran<br>Mikijemyran<br>Jan (at div) Soa, Frack Grandt on FR3, Poor fen with smit<br>33 m (at div) Soa, Frack Grandt on FR3, Poor fen with smit<br>33 m (at div) Soa, Frack Grandt on FR3, Poor fen with smit  | DS DS   
   |
| AG281         1         GGTCTCGA           AG282         1         AATTGCGA           AG283         1         CGTATCGA           AG285         1         CCGTACGA           AG285         1         CCGTACGA           AG285         1         CCGCGCCA           AG285         1         CCGCGCTA           AG395         1         CCTTCGAA           SB4957         2         GACTCGTT           SB4958         2         AGTMAGTT           SB4950         2         TAGAGTT           SB4950         2         CAGATCTT   
   | fleuosum<br>isovitae<br>brevfolium<br>angustfolium<br>angustfolium<br>fleuosum<br>fallax<br>fallax<br>fallax<br>fallax<br>fallax  
   
   | A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett<br>A. Garrett   | A291<br>A292<br>A293<br>A298<br>A300<br>A278<br>A003<br>A006   
   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA  | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Nord-Trøndelag<br>West Virginia<br>West Virginia<br>West Virginia   | Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Høylandet<br>Grant Co.<br>Grant Co.   
  | 8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/16/1:<br>20-Jun-13<br>20-Jun-13<br>20-Jun-13  | J Måligiennyan<br>J Måligiennyan<br>J Måligiennyan<br>J Måligiennyan<br>J Måligiennyan<br>G (crestigensa<br>Dolly Sods<br>Dolly Sods<br>Dolly Sods   | Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Distribution<br>Millipenyan<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distribution<br>Distributio   | DS<br>DS<br>DS  
   |
| AG281         1         GGTCTCGA           AG282         1         AATIGCGA           AG283         1         GCGTACGA           AG285         1         GCGTACGA           AG285         1         CCGCGCA           AG285         1         CCTCGAA           S84951         1         ACTGGTAA           S84959         2         GACTCGTT           S84959         2         TAAGAGTT           S84950         2         CAGATCTT           S84961         2         CTATCCTT  
   | fleuosom<br>isovitae<br>brevefolium<br>angustofolum<br>angustofolum<br>feuosom<br>fallas<br>fallas<br>fallas<br>fallas<br>fallas  
   
   | A. Garrett<br>A. Garrett   | A291<br>A292<br>A293<br>A298<br>A300<br>A278<br>A003<br>A006<br>A007<br>A008<br>A007<br>A008<br>A009<br>A011   
   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA<br>USA   | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Nord-Trøndelag<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia   | Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Høylandet<br>Grant Co.<br>Grant Co.<br>Grant Co.  
  | 8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>8/17/1:<br>20-Jun-13<br>20-Jun-13<br>20-Jun-13<br>20-Jun-13<br>20-Jun-13   |  | Mikijemyran<br>Mikijemyran<br>Mikijemyran<br>Mikijemyran<br>Mikijemyran<br>Jan (at div) Soa, Frack Grandt on FR3, Poor fen with smit<br>33 m (at div) Soa, Frack Grandt on FR3, Poor fen with smit<br>33 m (at div) Soa, Frack Grandt on FR3, Poor fen with smit  | DS<br>DS<br>DS  
   |
| AG2B1         1         GGTCTCGA           AG2B2         1         AATTGCGA           AG2B3         1         GCGTACGA           AG2B4         1         ACCGTACGA           AG2B5         1         CCCGCCCA           AG2B5         1         CCCGCCCA           AG2B5         1         ACTGGTAA           SB4957         2         CACTGGTTA           SB4959         2         ACTGATAAGTT           SB4950         2         CAGATCTT           SB4960         2         CAGATCTT           SB4962         2         CAGATCTT           SB4963         2         TCCACTT           SB4963         2         TCCACTT           SB4963         2         TCCACTT           SB4959         2         TCCACTT           SB4960         2         AGACTATT  
   | flexussum<br>isovitae<br>brevfolium<br>angustfolium<br>angustfolium<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux<br>fallux   
   
   | A. Garrett<br>A. Garrett   | A291<br>A292<br>A293<br>A298<br>A300<br>A278<br>A003<br>A006<br>A007<br>A006<br>A007<br>A008<br>A008<br>A009<br>A011<br>A012<br>A013   
   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA   | Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>Sor-Trøndelag<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia<br>West Virginia   | Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Klæbu<br>Grant Co.<br>Grant Co.<br>Grant Co.<br>Grant Co.<br>Grant Co.<br>Grant Co.  
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| AC231         1         GGTTCGA           AC232         1         ATTGCA           AC233         1         GCGTACGA           AC234         1         GCGTACGA           AC235         1         GCGTACGA           AC236         1         GCGTACGA           AC236         1         GCGTACGA           AC236         1         ACTGGTA           S44957         2         GACTGGTA           S44959         2         GACACGTT           S44950         2         GACACTT           S44950         2         GACACGTT           S44950         2         GAGACGATT           S44960         2         GAGCATT           S44960         2         GAGCATT           S44960         2         GAGCATT           S44960         2         GAGCATT           S44960         2         GCTIGATT           S44960         2         GCTGATT           S44962         2         GCTGATT           S44968         2         GCTGCGT   
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   | A. Garrett  | A291<br>A292<br>A293<br>A298<br>A298<br>A298<br>A298<br>A298<br>A200<br>A000<br>A000<br>A000<br>A000<br>A000<br>A000<br>A00   
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  | A. Garrett  | À291           À292           À293           À293           À298           À300           À278           À006           À007           À008           À009           À011           À012           À013           Ì8991           18977           À018           À020           À021           À023           À024           À025           À026           À021           À023           À026           À027   
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Garrett A. Garrett</td> <td>Ä291         Ä292           Ä292         Ä293           Ä293         Ä293           Ä300         Ä278           Ä300         Ä203           Ä300         Ä300           Ä300         Ä300           Ä300         Ä300           Ä300         Ä303           Ä003         Ä006           Ä004         Ä005           Ä005         Ä006           Ä004         Ä011           Ä011         Ä012           Ä012         Ä013           Ä020         Ä014           Ä021         Ä023           Ä025         Ä029           Ä033         Ä033</td> <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA</td> <td>Sor-Trandelag<br/>Sor-Trandelag<br/>Sor-Trandelag<br/>Sor-Trandelag<br/>Sor-Trandelag<br/>Sor-Trandelag<br/>Sor-Trandelag<br/>Sor-Trandelag<br/>New Yorkaha<br/>West Virginia<br/>West Virginia<br/>West Virginia<br/>West Virginia<br/>West Virginia<br/>New York<br/>West Virginia<br/>New York<br/>West Virginia<br/>West Virginia</td> <td>Klebu           Klebu           Klebu           Klebu           Klebu           Grant Co.           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Garrett A. Garrett</td> <td>A291         A292           A293         A293           A293         A293           A293         A298           A300         A278           A300         A278           A003         A005           A005         A007           A006         A007           A008         A008           A009         A011           A011         A013           A020         A021           A021         A023           A022         A024           A033         A033           A034         A041</td> <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trande</td> <td>Klebu           Klebu           Klebu           Klebu           Klebu           Klebu           Grant Co.           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   | A. Garrett  | A291         A292           A293         A293           A293         A293           A293         A298           A300         A278           A300         A278           A003         A005           A005         A007           A006         A007           A008         A008           A009         A011           A011         A013           A020         A021           A021         A023           A022         A024           A033         A033           A034         A041   
  | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA  | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trandelag<br>Nord-Trande   | Klebu           Klebu           Klebu           Klebu           Klebu           Klebu           Grant Co.           Garrett Co.           Garrett Co.   
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| AC231         1         GGTTCGA           AC232         1         ATTGCA           AC233         1         GCGTACGA           AC234         1         GCGTACGA           AC235         1         GCGTACGA           AC236         1         GCGTACGA           AC236         1         GCGTACGA           AC236         1         ACTGGTA           AC236         1         ACTGGTA           AC236         1         ACTGGTA           AC236         2         GGTACTA           S48950         2         GAATCOTT           S48961         2         GGTACTA           S48962         2         GGTACTT           S48963         2         CGTACT           S48964         2         GGTACTT           S48965         2         CGTCGT           S48966         2         CTCGTATT           S48967         2         CTCGTATT           S48978         2         CGTCGTT           S48977         2         ACCTGT           S48978         2         CTCGATT           S48977         2         ACGTACT           S48978         2 <td>fleuosum fleuosum fle</td> <td>A. Garrett A. Garrett</td> <td>A291         A292           A293         A293           A293         A293           A293         A298           A300         A278           A300         A278           A003         A005           A005         A007           A006         A007           A008         A008           A009         A011           A011         A013           A011         A013           A020         A020           A021         A023           A025         A033           A034         A044           A045         A045</td> <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trandelag<br/>Nord-Trande</td> <td>Klebu           Klebu           Klebu           Klebu           Klebu           Klebu           Grant Co.           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Garrett Co.     &lt;</td> <td>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/17/11<br/>8/1</td> 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  | A. Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ92           ÄZ93         ÄZ93           ÄZ93         ÄZ98           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ94           ÄZ94         ÄZ94           ÄZ95         ÄZ94  
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA  | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Nard-Trandelag<br>Nard-Trandelag<br>Wast-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia<br>West-Virginia  
  | Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Grant Go.           Grarett Go.           Garrett Go.   | 8(17)12)<br>8(17)12)<br>8(17)12)<br>8(17)12)<br>8(17)12)<br>8(17)12)<br>8(17)12)<br>8(17)12)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10)<br>9(10) | Malagenyran<br>Malagenyran<br>Malagenyran<br>Malagenyran<br>Malagenyran<br>Gerseglann<br>Dody Sofa<br>Dody Sofa<br>Carl Turer<br>Caraan Loop
Ma<br>Caraan Ma<br>Caraan Ma<br>Caraan Ma<br>Caraan Ma   | Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>District Construction of HIL Par fen with war<br>District Construction of HIL Par fen with HIL   | 65  |
| AC231         1         GGTTCGA           AC232         1         ATTGCA           AC233         1         GCGTACGA           AC234         1         GCGTACGA           AC235         1         GCGTACGA           AC236         1         CCGGCACA           AC236         1         CCGGCACA           AC236         1         CCGGCACA           AC236         1         ACTGGTA           S4495         2         GATCGTT           S4495         2         GATCGTT           S4495         2         GATACTT           S4496         2         GGTACTGT           S44964         2         GGTACTGT           S44965         2         GACCATT           S44966         2         GACCATT           S44967         2         GCACCATT           S44968         2         GCTCATT           S44967         2         GCATCGT           S44967         2         GCATCGT           S4497         2         GCATCGT           S4497         2         GCATCGT           S4497         2         GCATCGT           S44977         2  
   | fleuosum fleuosum sovitate fleuosum angustfolium angustfolium angustfolium fleuosum faltax fa   
   
  | A. Garrett  | A291         A292           A293         A293           A293         A293           A293         A298           A300         A2078           A003         A005           A005         A005           A005         A005           A005         A005           A011         A013           A012         A013           A013         18991           A020         A012           A012         A013           A023         A023           A023         A023           A033         A043           A043         18905           18905         18905   
   | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA  | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Mest Virginis<br>West Virginis<br>Mest Virginis<br>Me   | Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Grant Co.           Grarett Co.           Garrett Co.   
   | 8(27)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2(3)<br>8(17)2  | li Malagenyan<br>li Mal   | Milligenyan<br>Milligenyan<br>Milligenyan<br>Milligenyan<br>Milligenyan<br>Milligenyan<br>Milligenyan<br>Milligenyan<br>Milligenyan<br>Distribution (Milligenya)<br>Distribution (   | 65           65           65           65           65           65           65           65           65           65           65           65           65           65           65           65           66  |
| AC231         1         GGTTCGA           AC232         1         ATTGCA           AC233         1         GCGTACGA           AC234         1         ACCGACA           AC235         1         GCGTACGA           AC236         1         ACTGGTA           AC236         1         ACTGGTA           AC236         1         ACTGGTA           S44957         2         GACTGGTA           S44958         2         GACACTGT           S44959         2         GGATCTT           S44950         2         GGATCTT           S44950         2         GGATCTT           S44950         2         GGATCTT           S44954         2         GGATCTT           S44955         2         GGATCTT           S44954         2         GGATCAT           S44954         2         GGTCAT           S44957         2         GACTGAT           S4497         2         GCACTCGT           S4497         2         GCACTCGT           S4497         2         GCACTCGT           S4497         2         GCGACT           S4497         2   
   | fleuosum fle  
   
   | A. Garrett  | A291         A292           A293         A293           A293         A293           A293         A200           A200         A200           A200         A207           A003         A005           A005         A005           A005         A001           A011         11991           118977         A013           A020         A012           A012         A013           A020         A023           A022         A013           A023         A026           A024         A025           A023         A043           A043         A043           18905         18906           18905         18907           1107a/1         X  
  | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa  | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Nest Virginia<br>West Virginia<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland   
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  | klæbu           klæbu           klæbu           klæbu           klæbu           klæbu           klæbu           grant Go.           graret Go.  | 8(27)2198<br>8(27)2198<br>8(27)2198<br>8(27)2198<br>8(27)2198<br>8(27)219<br>8(27)219<br>8(27)219<br>8(27)219<br>8(27)219<br>8(27)219<br>8(27)219<br>8(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)219<br>2(27)2(  | li Malagonyan<br>li Mal   | Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>District Construction of the second second<br>second second second second
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   | fleuosum       fleuosum       sovitate       angustfolum       angustfolum       feuosum       faltac       faltac <td>A, Garrett A, Garrett</td> <td>A291         A292           A292         A293           A293         A293           A293         A298           A300         A203           A003         A003           A004         A005           A005         A003           A011         A013           A013         18991           18977         A018           A020         A012           A021         A013           A020         A014           A020         A013           A020         A014           A020         A013           A023         A033           A033         A033           A034         A043           A045         18904           18904         18904           A045         18904           A047         A045           A045         A047           A045         A047           A045         A047           A045         A047           A045         A047           A045         A043           A045         A045</td> <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Net Son-Trandelag<br/>Net Son-Trandelag<br/>Net</td> <td>Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Grant Co.           Garrett Co.      Garrett
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  | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa<br>Usa  | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Net Son-Trandelag<br>Net   | Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Grant Co.           Garrett Co.      Garrett Co. </td <td>8(27)2)8(2)8(2)8(2)8(2)8(2)8(2)8(2)8(2)8(2)8</td> <td>Malagenyran     Malagenyran     Malagenyr</td> <td>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa<br/>Milgionysa</td> <td>65           65           65           65           65           65           65           65           65           65           65           65           65           66           67           68           64           64           64           64           64           64           64           64           64           64           64           64           64           64           64           64           65           64           65           64           65           64           65           64           65           64           65           64           65           5           5           5           5           5           5           5           5&lt;</td> | 8(27)2)8(2)8(2)8(2)8(2)8(2)8(2)8(2)8(2)8(2)8  | Malagenyran     Malagenyr  
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  | A. Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ95           ÄZ95         ÄZ94           ÄZ95         ÄZ94           ÄZ95         ÄZ94           ÄZ94         ÄZ95           ÄZ92         ÄZ92           ÄZ93         ÄZ92           ÄZ94         ÄZ92           ÄZ95         ÄZ92           ÄZ94         ÄZ92           ÄZ95         ÄZ92           ÄZ94 <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Non-Trandelag<br/>Non-Trandelag<br/>West Virginia<br/>West Virginia<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyland<br/>Manyla</td> <td>Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Grant Co.           Garrett Co.           &lt;</td> <td></td> <td>li Malagenyan<br/>li Mal</td> <td>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Millipenyan<br/>Distribution of the second second second second<br/>Distribution of the second second second second<br/>Distribution of the second second second second second<br/>Distribution of the second second</td> <td>65           65           65           65           65           66           67           68           68           69           64           65           66           67           68           64           64           64           65           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           67           5           5           68           69           61           62           63           64           65           66           67           68           64           &lt;</td>   
  | Norway<br>Norway<br>Norway<br>Norway<br>Norway<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA<br>USA  | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Non-Trandelag<br>Non-Trandelag<br>West Virginia<br>West Virginia<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyland<br>Manyla  | Klæbu           Klæbu           Klæbu           Klæbu           Klæbu           Grant Co.           Garrett Co.           <   
   |   | li Malagenyan<br>li Mal   | Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Distribution of the second second second second<br>Distribution of the second second second second<br>Distribution of the second second second second second<br>Distribution of the second   | 65           65           65           65           65           66           67           68           68           69           64           65           66           67           68           64           64           64           65           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           66           67           5           5           68           69           61           62           63           64           65           66           67           68           64           < |
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   | A. Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ00         ÄZ00           AG06         ÄG07           ÄG03         ÄG07           ÄG04         ÄG07           ÄG05         ÄG07           ÄG03         ÄG07           ÄG03         ÄG07           ÄG03         ÄG03           ÄG02         ÄG22           ÄG23         ÄG23           ÄG24         ÄG25           ÄG25         ÄG23           ÄG33         ÄG33           ÄG34         ÄG43           ÄG44         ÄG45           IB906         IB906           IB906         ÄG55           ÄG55         ÄG54           ÄG55         ÄG56           ÄG56   
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Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Millipenyan<br>Distribution of the second second second second second<br>Distribution of the second sec   | 65           65           65           65           65           66           67           68           69           64           65           66           67           68           64           64           64           64           64           64           64           64           64           64           64           64           64           64           64           64           64           64           65           64           65           64           65           64           65           64           65           64           65           64           65           64           65           64           65           64           65           64           |
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   | A. Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ92           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄÄ00         ÄZ93           ÄÄ00         ÄZ93           ÄÄ00         ÄÄ00           ÄÄ00         ÄÄ00           ÄÄ00         ÄÄ00           ÄÄ00         ÄÄ01           ÄÄ00         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ01         ÄÄ02           ÄÄ02         ÄÄ02           ÄÄ03         ÄÄ03           ÄÄ03         ÄÄ03           ÄÄ03         ÄÄ03           ÄÄ03         ÄÄ03           ÄÄ03         ÄÄ03           ÄÄ04         ÄÄ03           ÄÄ05         ÄÄ05           Ä055         ÄÄ054           Ä056         Ä054           Ä052 </td <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa<br/>Usa</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Nathal Son-Trandelag<br/>Nathal Son-Trand</td> <td>Klebu           Klebu           Klebu           Klebu           Klebu           Klebu           Grant Go.           Garrett Go.           G</td> <td></td> <td>Malagenyran<br/>Malagenyran<br/>Malagenyran<br/>Malagenyran<br/>Malagenyran<br/>Malagenyran<br/>Gerseglaen<br/>Dody Sofa<br/>Dody Sofa<br/>Dody Sofa<br/>Dody Sofa<br/>Dody Sofa<br/>Dody Sofa<br/>Dody Sofa<br/>Carl Turer<br/>Carl Turer<br/>C</td> <td>Millipsingenia<br/>Millipsingenia<br/>Millipsingenia<br/>Millipsingenia<br/>Millipsingenia<br/>Millipsingenia<br/>Distribution of the second second second second second<br/>second second seco</td> <td>65           65           65           65           65           66           67           68           68           69           61           62           63           64           65           64           65           64           65           64           65           5           5           5           5           5           5           5           5           5<!--</td--></td>  
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| AC281         1         GGTTCGA           AC282         1         ATTGCA           AC283         1         GCCTACCB           AC284         1         ATTGCA           AC285         1         CCCTACCB           AC285         1         CCCGACCA           AC286         1         ACTGGTA           AC285         2         CATCGAT           S84857         2         CACTCGAT           S84857         2         CACTCGAT           S84858         2         CACATCGTT           S84859         2         CACATCGTT           S84862         2         CACTCAT           S84863         2         CACTCAT           S84864         2         CACTCAT           S84865         2         CCTCAT           S84866         2         CACTCAT           S84967         2         CACTCAT           S84967         2         CACTCAT           S84967         2         CACTCAT           S84972         2         CACTCAT           S84972         2         CACTCAT           S84972         2         CACTCAT           S84972  
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  | A. Garrett  | A291         A292           A292         A293           A293         A293           A293         A293           A300         A203           A203         A203           A003         A006           A003         A006           A004         A006           A012         A013           18991         18977           A018         A020           A020         A018           A020         A018           A021         A018           A020         A021           A021         A021           A023         A023           A023         A023           A024         A025           A033         A043           A043         A043           A045         A056           A056         A053           A056         A056           A059         A056           A059         A056           A056         A056           A059         A056           A056         A056           A059         A056           A059         A056           A059<  
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| AC231         1         GETTCGA           AC232         1         ATTGCA           AC233         1         GECTACGA           AC234         1         GECTACGA           AC235         1         GECTACGA           AC235         1         GECTACGA           AC235         1         GECTACGA           AC236         1         ATTGCA           AC236         1         ATTGCA           AC236         1         ATTGCA           S40405         2         AGTACTA           S44960         2         CAATCAT           S44961         2         TATCCT           S44962         2         GATACTAT           S44963         2         CACTAT           S44964         2         CACTAT           S44965         2         CACTAT           S44967         2         GETTCCAT           S44968         2         CETCATT           S44970         2         CACTAT           S44971         2         CACTAT           S44972         2         CACTAT           S44972         2         CACTAT      S44972         2         CACTAT<  | fleuosum       fleuosum       breveflolum       angustfolum       angustfolum       falla       falla <td< td=""><td>A. 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Garrett</td><td>ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ95           ÄZ95         ÄZ94           ÄZ95         ÄZ93           ÄZ93         ÄZ93           ÄZ94<td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA</td><td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>West Virginia<br/>West Virginia<br/>Mest Virginia<br/>Me</td><td>kitebu kitebu 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Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ95           ÄZ95         ÄZ94           ÄZ95         ÄZ93           ÄZ93         ÄZ93           ÄZ94 <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA<br/>USA</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>West Virginia<br/>West Virginia<br/>Mest Virginia<br/>Me</td> <td>kitebu kitebu ki</td> 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Garrett</td> <td>ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄÄ00         ÄZ93           ÄÄ00         ÄZ93           ÄÄ00         ÄZ93           ÄÄ00         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ91         ÄZ93           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ94           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ92         ÄZ93           ÄZ93<td>Norway,<br/>Norway,<br/>Norway,<br/>Norway,<br/>Norway,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso</td><td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Non-Trandelag<br/>Non-Trandelag<br/>Nest Virginia<br/>West 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   | A. Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ92           ÄZ92         ÄZ92           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ95         ÄZ94           ÄZ91         ÄZ95           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ95           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ95         ÄZ93           ÄZ94 <td>Norway,<br/>Norway,<br/>Norway,<br/>Norway,<br/>Norway,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso,<br/>Uso</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>West Virginia<br/>West Virginia<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>Pennyelwania<br/>P</td> <td>kitebu kitebu ki</td> <td></td> <td>Malagenyran     Malagenyran     Molagenyran     Molagenyr</td> <td>Milligenyan<br/>Milligenyan<br/>Milligenyan<br/>Milligenyan<br/>Milligenyan<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990)<br/>Series (1990) (Sen. Fronz Groud on FILL) Neur Series (1990) (Sen. Here) (1990)<br/>Series (1990) (Sen. Fronz Groud (1990) (Sen. Here) (1990)</td> <td>65       65       65       65       65       65       65       65       65       66       67       68       64       65       64       65       64       65       64       65       64       65       66       66       66       66       66       66       66       66       66       66       66       66       66       67       68       64       65       66       66       67       68       69       61       62       63       64       65       66       67       68       69       68       68       68       68       68       68       68       68       68       68       68       68       68   </td>   
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| AC231         1         GGTCTGA           AC232         1         ATTGCA           AC233         1         GCCTACGA           AC234         1         ACCGACA           AC235         1         GCCTACGA           AC236         1         ACCGGCAA           AC236         1         ACTGGTAA           AC236         1         ACTGGTAA           AC236         1         ACTGGTAA           S48950         2         AGTAGT           S48960         2         CAGATCGT           S48961         2         GGTACCT           S48962         2         GGTACCT           S48963         2         CAGATCT           S48964         2         CAGATCT           S48965         2         CAGATCT           S48966         2         CAGATCT           S48967         2         CAGCTCAT           S48978         2         CAGCTGAT           S48979         2         CAGCTGAT           S48971         2         CAGCTGAT           S48972         2         CAGCAGT           S48972         2         CAGCAGT           S48972 <t< td=""><td>fleuosum       fleuosum       storitae       storita       storita    <trtr>     storita&lt;</trtr></td><td>A. 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Garrett</td><td>ÄZ91         ÄZ92           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ00         ÄZ00           ÄZ00         ÄZ03           ÄZ00         ÄZ03           ÄZ03         ÄZ03           ÄZ04         ÄZ03           ÄZ05         ÄZ03           ÄZ01         ÄZ03           ÄZ02         ÄZ02           ÄZ02</td></t<> <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>West Virginia<br/>West 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   | fleuosum       fleuosum       sovitate       angustfolum       angustfolum       angustfolum       fallax   
   
  | A. Garrett  | ÄZ91         ÄZ92           ÄZ92         ÄZ92           ÄZ92         ÄZ92           ÄZ93         ÄZ92           ÄZ93         ÄZ93           ÄÄ00         ÄZ92           ÄÄ00         ÄZ92           ÄÄ00         ÄÄ00           ÄÄ00         ÄÄ00           ÄÄ00         ÄÄ00           ÄÄ00         ÄÄ01           ÄÄ00         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ01         ÄÄ01           ÄÄ02         ÄÄ02           Ä02         ÄÄ02           Ä02   
   | Norway,<br>Norway,<br>Norway,<br>Norway,<br>Norway,<br>Norway,<br>Uso,<br>Uso,<br>Uso,<br>Uso,<br>Uso,<br>Uso,<br>Uso,<br>Uso   | Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>Son-Trandelag<br>West Virginia<br>West
Virginia<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Manjadad<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai<br>Pennoplunai   | kitebu  |   | Malagenyran     Malagenyran     Molagenyran     Molagenyr  |
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| AC23E 1         CGTCTCGA           AC23E 1         CGTCTCGA           AC23E 1         CGCTACGA           AC23E 1         CCCTACGA           AC23E 1         CCCTACGA           AC23E 1         CCCTACGA           AC23E 1         CCCTACGA           AC23E 2         CACTGGTA           AC23E 2         CACTGGTA           SAB57 2         CACTGGTA           SAB59 2         CACATCGT           SAB59 2         CACATCGT           SAB450 2         CACATCGT           SAB450 2         CACATCGT           SAB462 2         CGTCACT           SAB462 2         CGTCACT           SAB462 2         CACCATT           SAB462 2         CACCATT           SAB462 2         CACCATT           SAB462 2         CACCATT           SAB472 2         CCCATTGT           SAB472 2         CCCATTGT      SAB4973 2         CCCATTGC  
   | fleuosum       fleuosum       sovitate       fallax       fallax       fallax       sovitate       fallax dhy type       fallax       sovitate       fallax dhy type       fallax       fallax dhy type       fallax       fallax <td>A. Garrett A. Garrett</td> <td>Ä291         Ä292           Ä292         Ä293           Ä293         Ä298           Ä293         Ä298           Ä300         Ä201           Ä301         Ä301           Ä301         Ä301           Ä301         Ä301           Ä302         Ä303           Ä302         Ä303           Ä303         Ä303           Ä304         Ä304           Ä304         Ä304           Ä305         Ä304           Ä304         Ä304           Ä304         Ä304           Ä304         Ä304           Ä304         Ä304           Ä304         Ä304          
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Garrett</td><td>ÄZ91         ÄZ91           ÄZ92         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ92           ÄZ92         ÄZ92           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ94           ÄZ95         ÄZ94           ÄZ95         ÄZ94           ÄZ91         ÄZ95           ÄZ93         ÄZ95           ÄZ93         ÄZ95           ÄZ94         ÄZ95           ÄZ95         ÄZ94           ÄZ95         ÄZ95           ÄZ95         ÄZ94           ÄZ95<td>Norway Norway Norway Norway Norway Norway Norway Norway Norway Usa Norway Usa Usa Usa Usa Usa Usa Usa Usa Usa Usa</td><td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>West Virginia<br/>West 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   | A. Garrett  | ÄZ91         ÄZ91           ÄZ92         ÄZ92           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ93         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ94         ÄZ93           ÄZ95         ÄZ93           ÄZ93         ÄZ93           ÄZ94 <td>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Norway<br/>Uso<br/>Norway<br/>Uso<br/>Norway<br/>Uso<br/>Norway<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso<br/>Uso</td> <td>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>Son-Trandelag<br/>West Virginia<br/>West
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Sector	SB5034 2 AGGCATAC	isoviitae	B. Shaw	18967	USA	New York	Franklin Co	23-Jun-13	St. Regis Lake	Adirondacks region, E side of Lower St. Regis Lake N of Tupper La SR
D         D        D        D        D        D        D        D	SB5035 2 TAGAGGAC	brevifolium	B. Shaw	18968	USA	New York	Franklin Co	23-Jun-13	St. Regis Lake	Adirondacks region, E side of Lower St. Regis Lake N of Tupper La SR
M         N        N        N        N        N        N        N	SB5037 2 GAACCAAC	brevifolium	B. Shaw	18971	USA	New York	Franklin Co	23-Jun-13	St. Regis Lake	Adirondacks region, E side of Lower St. Regis Lake N of Tupper La SR
Des         Des        Des         Des         Des         Des         Des         Des         Des         Des         Des         Des         Des         Des         Des         Des         Des        Des        Des        Des        Des        Des        Des        Des        Des        Des        Des	SB5039 2 GACGGCTA	flexuosum	B. Shaw	18974	USA	New York	Franklin Co	23-Jun-13	St. Regis Lake	Adirondacks region, E side of Lower St. Regis Lake N of Tupper La SR
Des         Des        Des        Des        Des        Des        Des        Des        Des        Des        Des										Belfast. Just NE of the beginning of the "Little River Nature Trail" The Glades, 4.2 mi E of McHenry MH
Des         Des        Des        Des        Des        Des        Des        Des										
N         N        N        N        N        N        N        N	SB5048 2 CCGCGCCA	recurvum	T. Neily B. Shaw							
N         N        N        N        N        N	SB5051 2 GCTTCGAA	fallax	B. Shaw	19013	USA	Pennsylvania	Pike Co.	25-Jun-13	Billings Pond	Billings Pond, N of Co. rd. 4004 (Blooming Grove Rd.), 1.1 mi W o BP
N         N        N         N         N         N	SB5053 3 GACTCGTT	riparium	M. Ignatov & E. Ignatova	2015-38	Russia	Moscow Province	Odinzovo Distr.	2015	Zvenigorod	Zvenigorod Biological Station of Moscow State University RU
No.     No.<					Russia	Moscow Province				
N         N        N         N        N        N        N        N						Moscow Province	Odinzovo Distr.			
N         N										
N         N        N         N         N         N	SB5066 3 GCAGTCGT	fallax (macroscopically angustifolium-like)	M. Ignatov & E. Ignatova	2015-28 (loc 36)	Russia			2015	Zvenigorod	Zvenigorod Biological Station of Moscow State University RU
Desc         Desc <thdesc< th="">        Desc        Desc        <thdesc<< td=""><td>SB5069 3 TAATCAGT</td><td>angustifolium</td><td>M. Ignatov &amp; E. Ignatova</td><td>2015-9</td><td>Russia</td><td>Moscow Province</td><td>Odinzovo Distr.</td><td>2015</td><td>Zvenigorod</td><td>Zvenigorod Biological Station of Moscow State University RU</td></thdesc<<></thdesc<>	SB5069 3 TAATCAGT	angustifolium	M. Ignatov & E. Ignatova	2015-9	Russia	Moscow Province	Odinzovo Distr.	2015	Zvenigorod	Zvenigorod Biological Station of Moscow State University RU
N         N	SB5071 3 AGTCGTCT	fallax	M. Ignatov & E. Ignatova	2015-10	Russia	Moscow Province	Odinzovo Distr.	2015	Zvenigorod	Zvenigorod Biological Station of Moscow State University RU
No.         No.        No.         No.         No.		majus ssp. majus	M. Ignatov & E. Ignatova							German Twp., Jam Pond Bog, N of county rd. 5 between Rabbit P JP Zvenigorod Biological Station of Moscow State University RU
Bit         Desc         Desc <thdesc< th=""> <thdesc< th=""> <thdesc< th=""> <thde< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thde<></thdesc<></thdesc<></thdesc<>										
No.         No.        No.         No.         No.			M. Ignatov & E. Ignatova	2015-26						
N         N         Normal         Normal        Normal        Normal	SB5083 3 AGCTCAAT	fallax s.l.	M. Ignatov & E. Ignatova	2015-14	Russia	Moscow Province	Odinzovo Distr.	2015	Zvenigorod	Zvenigorod Biological Station of Moscow State University RU
BAI         BAI        BAI        BAI        BAI        BAI	SB5086 3 GCCATATG	angustifolium	M. Ignatov & E. Ignatova	2015-19	Russia			2015	Zvenigorod	Zvenigorod Biological Station of Moscow State University RU
N         N         Norw         Norw        Norw        Norw         Norw        Nor	SB5089 3 TAGGTCGG	pseudopacificum	Pisarenko	27.8.2009	Russia	Name Wards	Warner Ca	27-Aug-09	RU4	RU4
No.         No.        No.         No.         No.	SB5091 3 TCGCGAGG	flexuosum	B. Shaw	18992	USA	New York	Rensselaer Co.	24-Jun-13	Miller Rd.	Sandlake Twp. E of Albany, along Miller Rd. 0.8 mi S of jct. with N MiR
	SB5093 3 ACCGAAGG	fallax	B. Shaw	18876	USA	West Virginia	Grant Co.	20-Jun-13	Dolly Sods	Along FR-19 (Dolly Sods Rd.), 0.2 mi NE of Dolly Sods Picnic Groun DS
Dist         Dist <thdist< th="">         Dist         Dist         <thd< td=""><td>SB5095 3 AACTACCG</td><td>isoviitae</td><td>B. Shaw</td><td>18878</td><td>USA</td><td>West Virginia</td><td>Grant Co.</td><td>20-Jun-13</td><td>Dolly Sods</td><td>Along FR-19 (Dolly Sods Rd.), 0.2 mi NE of Dolly Sods Picnic Group DS</td></thd<></thdist<>	SB5095 3 AACTACCG	isoviitae	B. Shaw	18878	USA	West Virginia	Grant Co.	20-Jun-13	Dolly Sods	Along FR-19 (Dolly Sods Rd.), 0.2 mi NE of Dolly Sods Picnic Group DS
Dist       Dist <thdist< th="">       Dist       Dist</thdist<>	SB5100 3 TTAGCAAG	fallax	B. Shaw	18892	USA	West Virginia	Grant Co.	20-Jun-13	Canaan Loop Rd.	Canaan Valley area, along FR-13 (Canaan Loop Rd.), 3.0 mi SW of CaL
No.         No.        No.         No.         No.					USA	West Virginia				
NUM         NUM        NUM         NUM         NUM					USA	Maryland			Cunningham Lake	Along NE shore of Cunningham Lake, S of 4-H Camp Rd., 0.85 mi CuL
Desc         Desc <thdesc< th="">         Desc         Desc</thdesc<>	SB5107 3 AGCGCGGC	fallax	B. Shaw	18936	USA	Pennsylvania	McKean Co	22-Jun-13	Martin Run	Sergeant Twp., along Martin Run just N of Wilcox-Claremont Rd. MR
Bill A         Bill A        Bill A        Bill A </td <td>SB5109 3 GGAATAGC</td> <td>recurvum</td> <td>A. Garrett</td> <td>A142</td> <td>USA</td> <td>Pennsylvania</td> <td>Pike Co.</td> <td>25-Jun-13</td> <td>Billings Pond</td> <td>Billings Pond, N of Co. rd. 4004 (Blooming Grove Rd.), 1.1 mi W of BP</td>	SB5109 3 GGAATAGC	recurvum	A. Garrett	A142	USA	Pennsylvania	Pike Co.	25-Jun-13	Billings Pond	Billings Pond, N of Co. rd. 4004 (Blooming Grove Rd.), 1.1 mi W of BP
Dist         Dist <thdist< th="">         Dist         Dist         <th< td=""><td>SB5113 3 CGCCTTCC</td><td>recurvum</td><td>B. Shaw</td><td>18941</td><td>USA</td><td>New York</td><td>Chenango Co.</td><td>22-Jun-13</td><td>Jam Pond</td><td>German Twp., Jam Pond Bog, N of county rd. 5 between Rabbit P JP</td></th<></thdist<>	SB5113 3 CGCCTTCC	recurvum	B. Shaw	18941	USA	New York	Chenango Co.	22-Jun-13	Jam Pond	German Twp., Jam Pond Bog, N of county rd. 5 between Rabbit P JP
Ball         Ball <th< td=""><td>SB5116 3 CAGGCTCC</td><td>fallax</td><td>A. Garrett</td><td>A118</td><td>USA</td><td>New York</td><td>Warren Co.</td><td>24-Jun-13</td><td>Carl Turner</td><td>Along Carl Turner Rd. Just E of I+87, S of Schroon Lake, 0.4 mi NE CT</td></th<>	SB5116 3 CAGGCTCC	fallax	A. Garrett	A118	USA	New York	Warren Co.	24-Jun-13	Carl Turner	Along Carl Turner Rd. Just E of I+87, S of Schroon Lake, 0.4 mi NE CT
Nome         Nome         Nome         Nome         Nome         Nome         Nome         Nome         Nome         No         Nome         No         No         Nome         No         No        No        No         No<									Carl Turner	Along Carl Turner Rd. just E of I-87, S of Schroon Lake, 0.4 mi NE c CT
Bit Note         And         Bit Note         Bit Note <th< td=""><td>SB5120 3 CTACCGCC</td><td>flexuosum</td><td>A. Garrett</td><td>A126</td><td>USA</td><td>New York</td><td>Warren Co.</td><td>24-Jun-13</td><td>Carl Turner</td><td>Along Carl Turner Rd. just E of I-87, S of Schroon Lake, 0.4 mi NE c CT</td></th<>	SB5120 3 CTACCGCC	flexuosum	A. Garrett	A126	USA	New York	Warren Co.	24-Jun-13	Carl Turner	Along Carl Turner Rd. just E of I-87, S of Schroon Lake, 0.4 mi NE c CT
Dist         Dist <thdist< th="">         Dist         Dist         <th< td=""><td>SB5122 3 ATTGAGCC</td><td>fallax</td><td>B. Shaw</td><td>18994</td><td>USA</td><td>New York</td><td>Rensselaer Co.</td><td>24-Jun-13</td><td>Miller Rd.</td><td>Sandlake Twp. E of Albany, along Miller Rd. 0.8 mi S of jct. with N MIR</td></th<></thdist<>	SB5122 3 ATTGAGCC	fallax	B. Shaw	18994	USA	New York	Rensselaer Co.	24-Jun-13	Miller Rd.	Sandlake Twp. E of Albany, along Miller Rd. 0.8 mi S of jct. with N MIR
Biol         Biolone	SB5124 3 TGCTGACC	brevifolium	B. Shaw	18996	USA	New York	Rensselaer Co.	24-Jun-13	Miller Rd.	Sandlake Twp. E of Albany, along Miller Rd. 0.8 ml S of jct. with N MIR
Bits         Bits <t< td=""><td>SB5126 3 CGAGAACC</td><td>isoviitae</td><td>B. Shaw</td><td>18998</td><td>USA</td><td>New York</td><td>Rensselaer Co.</td><td>24-Jun-13</td><td>Miller Rd.</td><td>Sandlake Twp. E of Albany, along Miller Rd. 0.8 mi S of jct. with N MIR</td></t<>	SB5126 3 CGAGAACC	isoviitae	B. Shaw	18998	USA	New York	Rensselaer Co.	24-Jun-13	Miller Rd.	Sandlake Twp. E of Albany, along Miller Rd. 0.8 mi S of jct. with N MIR
Bit Dist										
Bit Dist										On mainland, on Militail Rd., 0.41 mi NE from Militail Creek cross NC
Num         Num        Num         Num         Num	SB5138 3 TCTACTGA	pacificum	B. Shaw	19045	Canada	British Columbia	Vancouver I.	12-Jul-10	San Juan Ridge	Central Bistesu, energi sena de Nerro
No.         No. <td>SB5148 4 ATCAGGTT</td> <td>angustifolium</td> <td>J. Shaw</td> <td>2016-1</td> <td>USA</td> <td>Alaska</td> <td>Juneau</td> <td>4-Jul-16</td> <td>AukeLake</td> <td>Alaska. Juneau area, along trail around Auke Lake, UAS campus</td>	SB5148 4 ATCAGGTT	angustifolium	J. Shaw	2016-1	USA	Alaska	Juneau	4-Jul-16	AukeLake	Alaska. Juneau area, along trail around Auke Lake, UAS campus
Norm         Biology	SB5150 4 AGTTAGTT	angustifolium	J. Shaw	2016-16	USA	Alaska	Juneau	10-Jul-16	Douglasi	Alaska. Douglas Island, west of Juneau. N end of Douglas Hwy., s
No.         No. <td>SB5153 4 CTATCCTT</td> <td>pacificum</td> <td>J. Shaw</td> <td>2016-27</td> <td>USA</td> <td>Alaska</td> <td>Juneau</td> <td>13-Jul-16</td> <td>AukeBay</td> <td>Alaska. Juneau area, Pinus contorta muskeg, Spaulding Meadows</td>	SB5153 4 CTATCCTT	pacificum	J. Shaw	2016-27	USA	Alaska	Juneau	13-Jul-16	AukeBay	Alaska. Juneau area, Pinus contorta muskeg, Spaulding Meadows
No         A         Balent         Balentt         Balentt <td< td=""><td>SB5155 4 TCCTACTT</td><td>angustifolium</td><td>J. Shaw</td><td>2016-34</td><td>USA</td><td>Alaska</td><td>Kenai Peninsula</td><td></td><td>Whittier AK1</td><td>Alaska. Whittier area, along Shotgun Cove Trail, ENE of Whittier. Alaska. Peatland E of the Seward Hwy (AK. 1), 15.4 ml. S of Hope</td></td<>	SB5155 4 TCCTACTT	angustifolium	J. Shaw	2016-34	USA	Alaska	Kenai Peninsula		Whittier AK1	Alaska. Whittier area, along Shotgun Cove Trail, ENE of Whittier. Alaska. Peatland E of the Seward Hwy (AK. 1), 15.4 ml. S of Hope
Nome		angustifolium	J. Shaw	2016-70	USA	Alaska				
No.         No. <td></td>										
Big         Solution         Lange         Data         Data        Data        Data        <	SB5159 4 GTTGAATT	angustifolium	J. Shaw	2017-160	Canada	Quebec	Sept Iles	20-Sep-17	Boulevard Laure	Sept Iles area, W of Sept Iles along Hwy. 138 (Boulevard Laure), a
Nome         Nome </td <td>SB5162 4 GCAGTCGT</td> <td>angustifolium</td> <td>J. Shaw</td> <td>2017-181</td> <td>Canada</td> <td>Quebec</td> <td>Schefferville</td> <td>22-Sep-17</td> <td>Lac Juin</td> <td>Just WNW of Schefferville Airport along margin of Lac Juin</td>	SB5162 4 GCAGTCGT	angustifolium	J. Shaw	2017-181	Canada	Quebec	Schefferville	22-Sep-17	Lac Juin	Just WNW of Schefferville Airport along margin of Lac Juin
New Process         Normal         N	SB5359 4 TCGATTCT	isoviitae	A. Garrett	A271	Norway	Nord-Trøndelag	Høylandet	16-Aug-13	Gresstjønna	Gresstjønna lake and Latmyrbukta
Nin 1 Control Application <t< td=""><td>SB5361 4 GACGTACT</td><td>flexuosum</td><td>A. Garrett</td><td>A282</td><td>Norway</td><td>Nord-Trøndelag</td><td>Høylandet</td><td>16-Aug-13</td><td>Gresstjønna</td><td>Gresstjønna lake and Latmyrbukta</td></t<>	SB5361 4 GACGTACT	flexuosum	A. Garrett	A282	Norway	Nord-Trøndelag	Høylandet	16-Aug-13	Gresstjønna	Gresstjønna lake and Latmyrbukta
Number       Number		angustifolium angustifolium							to Menihak Avenue de la Gare	N side of road (right side going out) between Schefferville and M SCH-11 3.5 km W of Schefferville train station on Avenue de la Gare. Sma SCH-13
1971     4     Concord     Bandom									DanMollerTr FR10	
Number         All	SB5179 4 AGCTCAAT	pacificum	B. Piatkowski	2017-60	USA	Alaska	Yakutat	29-May-17	FR10	Tongass National Park; along Forest Road 10
Number         Classical         System         Backadd         Diric         Mathem         Balant         Market         Balant         Bala	SB5184 4 CAAGATGG	pacificum	B. Piatkowski	2017-106	USA	Alaska	Juneau	1-Jun-17	UA	
Symple         S         Conder         Symple         Symple        Symple        Symple							Juneau	3-Jun-17	UA	
Syster         A         Activation         Systep         A Standard         Standard         St	SB5187 4 TCGCGAGG	angustifolium	B. Piatkowski	2017-186	USA	Alaska	Anchorage	16-Jun-17	Baxter Bog	Baxter Bog
Stable         I         TerrCode         specific legent sp	SB5191 4 AACTACCG	angustifolium	B. Piatkowski	2016-15	USA	New York	Burlington Co.	17-Jul-16	Cranberry Bog	Greenwoods Convervancy, Cranberry Bog
System         Image and any and any and any and any and any	SB5194 4 TTCTTCAG	angustifolium	B. Piatkowski	2016-141	USA	New York	Franklin Co.	10-Aug-16	Spitfire Bog	Spitfire Bog; towards the south of Upper St. Regis Lake
Status         A ArtAccic         Appertability         A concret         AG47         Via         Akaka         Achorage         OP-age         Some lake         Some lake instructionstruction take instructionstruction         Some lake instruction         Some lake instructi								17-Apr-18	Militail Rd	
Submote         A         Control         Magnetifyithm         A control         Submate         Submate/Submate         Submate/Submat	SB5207 4 AATCAAGC	angustifolium	A. Garrett	AG487	USA	Alaska	Anchorage	07-Aug-14	Goose Lake	Goose Lake, trail around the lake accessed from Goose Lake Park
SH221       4       KoCrTCC       Auticom (peudopacticum clade)       A. Garrett       AG500       UA       Alaka       Kenal Pennisula       0"-day 14 /mpria       Stochog at fyngels in an Auson Masker Pris, trait          SH212       4       KACTCC       augustfolum (baued pacificum)       A. Garrett       AG50       UA       Alaka       Kenal Pennisula       0"-day 14 /mpria       Deschi Traddes degri (rifts, 12 hm ord) the tightw/          SH212       4       KATCGCC       degustfolum       A Garrett       AG518       USA       Alaka       Kenal Pennisula       0"-day 14 /mpria       Deschi Traddes degri (rifts, 12 hm ord) the tightw/           SH212       4       KATGGCC       degustfolum       A Garrett       AG518       USA       Alaka       Kenal Pennisula       0"-day 14 /mpria       Sodoon Kenal area, 2.hm of the airo Maranho fith, tele          SH224       4       KATGGCC       degustfolum       A Garrett       AG533       USA       Alaka       Maranho Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho       Maranho <td>SB5209 4 CGCCTTCC</td> <td>angustifolium</td> <td>A. Garrett</td> <td>AG491</td> <td>USA</td> <td>Alaska</td> <td>Anchorage</td> <td>07-Aug-14</td> <td>Alyeska</td> <td>SE of Anchorage at Alyeska Ski area. Moose Meadow Park, trailh</td>	SB5209 4 CGCCTTCC	angustifolium	A. Garrett	AG491	USA	Alaska	Anchorage	07-Aug-14	Alyeska	SE of Anchorage at Alyeska Ski area. Moose Meadow Park, trailh
SB212       4       AFTTGCC       Signatifylium       A. Garrett       AG10       UA       Alska       Kenal Pennikula       0"-Augi 14       North 21       Boundh models segar oft fink 21       Boundh models segar	SB5212 4 CAGGCTCC	balticum (pseudopacificum clade)	A. Garrett	AG500	USA	Alaska	Anchorage	07-Aug-14	Alyeska	SE of Anchorage at Alyeska Ski area. Moose Meadow Park, trailh
Space         A         Rescance         space/space	SB5214 4 AGATTGCC	angustifolium	A. Garrett	AG510	USA	Alaska	Kenai Penninsula	07-Aug-14	Hwy1-10	Downhill roadside sedge-y rich fen, 4.2 km north of the Highway
Start         A         CortACC         spacefinition         A. Garrett         A Garrett         A Sala         Meal Penninuel         Bandard Line Start         Reference Mark         Reference Mark <td>SB5217 4 ACGACGCC</td> <td>angustifolium</td> <td>A. Garrett</td> <td>AG518</td> <td>USA</td> <td>Alaska</td> <td>Kenai Penninsula</td> <td>07-Aug-14</td> <td>MarathonRd</td> <td>Soldotna-Kenai area, ca. 5 km N of Kenai on Marathon Rd. Flat, e</td>	SB5217 4 ACGACGCC	angustifolium	A. Garrett	AG518	USA	Alaska	Kenai Penninsula	07-Aug-14	MarathonRd	Soldotna-Kenai area, ca. 5 km N of Kenai on Marathon Rd. Flat, e
SH220         4         CFCACC         Section (seudopacificancidade)         A. Garrett         AS257         U         Alska         Kenal Penninula         08-Aug 14         Solatoma Aint Seudoma Mice										
SB222         4         CRAACCC         Spacific/Local         Application         A Garrett         AG33         USA         Maku         Matuula-Sudma         Os-Ag-14         Summain         Net/Main         Aug 2000000000000000000000000000000000000	SB5220 4 TGCTGACC	pacificum (pseudopacificum clade)	A. Garrett	AG525	USA		Kenai Penninsula	08-Aug-14	Soldotna	N of Soldotna along Swanson River Rd. N of Sterling. Small pond :
Status       4       CFG/GTAC       Sequett/bilinm       A Garrett       AGS4       USA       Maturula-Suitinta       09-Aug.14       Statusmant.       Net Walls, cu sing At 3100000 Prisk twy 10.3 m 5 d taw       Image: Status         Status       4       AGGATAC       Angustfolium       A Garrett       AGS3       USA       Alaska       Faitbanks North Status       Image: Status	SB5222 4 CGAGAACC	angustifolium	A. Garrett	AG533	USA	Alaska	Matanuska-Susitna	08-Aug-14	KashwitnaL	N of Wasilla, ca. along AK 3 (George Parks Hwy.) 0.5 ml S of Kashv
Status       4       AGCATAC       appustfolium       A. Garrett       AGS45       USA       Alaka       Fairbanks North Size       0       Augut 4 lainend.       Balaine take, Fairbank, of Famers Loop Au       Image and take (Fairbank, of Famers Loop Au       Image and take, Fairbank, Shorth Size       Image	SB5224 4 CTCAGTAC	angustifolium	A. Garrett	AG534	USA	Alaska	Matanuska-Susitna	09-Aug-14	KashwitnaL	N of Wasilla, ca. along AK 3 (George Parks Hwy.) 0.5 mi S of Kashv
SB222       4       ACCAACL       ghugsthölum       A. Garrett       AG3ret       Maka       Matzuuka-Sustma       0 - Aug-14 Icasimenta       Ned Windta, a. Jang Ma (Janga Perks Fung) and Sin	SB5226 4 AGGCATAC	angustifolium	A. Garrett	AG558	USA	Alaska	Fairbanks North Star	09-Aug-14	BallaineL	Ballaine Lake, Fairbanks, off Farmers Loop Rd.
SH220       4       TGCATCA       Signatifylium       A. Garrett       AGS45       USA       Fatanks North Star       10.40g.14       Initianci,       Statutes, of Farmen Loop Attac,       Fatanks, of Farmen Loop Attac,       Fatanks, North Star       Agarct       Agarct       Agarct       Agarct       Agarct       Agarct       Fatanks, North Star       Agarct       Agarct       Agarct       Agarct       North Carolina       Tanghyania Co.       0.540y.18       North Star       Agarct       North Carolina       Tanghyania Co.       0.540y.18       North Carolina       North Carolina       Branghyania Co.       2.540y.17       North Sarolina       North Carolina       Branghyania Co.       2.540y.17       North Sarolina       North Carolina       Branghyania Co.       2.540y.17       North Sarolina       North Carolina       North Carolina       North Carolina       North Carolina       North Carolina       North Carolina       North Caroli	SB5228 4 GACGAGAC	angustifolium	A. Garrett	AG542	USA	Alaska	Matanuska-Susitna	09-Aug-14	KashwitnaL	N of Wasilla, ca. along AK 3 (George Parks Hwy.) 0.5 mi S of Kashu
SB222       4       ACGCCTA       Revnum       B. Paikowski       20.8-0       USA       USA       Profila       Prof	SB5229 4 GAACCAAC SB5230 4 TTGCAGTA	obtusum angustifolium			USA	Alaska		11-Aug-14	Nordale Rd	Fairbanks, fen further south down Nordale Rd., 590 m N of Andro
Status         4         TCATCAC         Recurvam         B, Agueton         19405         USA         Maine         Hearoxity Co.         64 Junit 18         Green Swamp         Green Swamp <thgreen swamp<="" th="">         Green Swamp         <thgreen s<="" td=""><td>SB5231 4 GACGGCTA</td><td>recurvum</td><td>B. Piatkowski</td><td>2018-40</td><td>USA</td><td></td><td>Franklin</td><td>17-May-18</td><td>Wright Lake</td><td>Apalachicola National Forest; near Wright Lake</td></thgreen></thgreen>	SB5231 4 GACGGCTA	recurvum	B. Piatkowski	2018-40	USA		Franklin	17-May-18	Wright Lake	Apalachicola National Forest; near Wright Lake
SB2329         4         CAGTCCA         Juddrum         8, Agerton         1943         USA         Maine         Hancok Co.         25 Jun 17         Mem reshard         Benesses Water shards and life shards an	SB5234 4 TCTACTGA	recurvum	B. Aguero	19605	USA	North Carolina	Brunswick Co.	04-Jun-18	Green Swamp	Green Swamp
SB2324         4         ACGTCTA         Revosum         A. Garrett         ALG         USA         USA         Pennyhania         Pie Co.         2 sun 31 Billing-Prod.         Billing-Prod. M Gor. 400 (Bioloning Grow 40), 1 Lm Verg         Peril           SS242         4         CATGTAA         ingustfolum         J. Shaw         2018-19         USA         Alexa         Denail Brown         25.box 13 Billing-Prod.         Alling-Prod. M Gor. 400 (Bioloning Grow 40), 1 Lm Verg         P           SS242         4         CATACG         ingustfolum         J. Shaw         2018-193         USA         Alexa         Denail Brown         23.box 18 Biocrache to Admonsary Vaide 4194.3.3         Alexa 5 Androno.0.9 m V         —           SS252         4         ACCATCG         ingustfolum         B. Platkowski         2018-195         USA         Wisconsin         Walvorth         23.box 18 Biochafteg         Beulah Bog State Natural Area         ma           SS252         4         ACCCTCC         ingustfolum         B. Platkowski         2018-195         USA         Wisconsin         Walvorth         23.box 18 <biochafteg< td="">         Beulah Bog State Natural Area         ma           SS252         4         TGCTCCC         ingustfolum         A. Garrett         AGS5         USA         Malvard         Pr</biochafteg<>	SB5239 4 CAAGTCCA	pulchrum	B. Aguero	19453	USA	Maine	Hancock Co.	25-Jun-17	Winter Harbor	Between Winter Harbor and Birch Harbor on ME 186
Status         4         CTATICG         Jegustfolium         9. Patkowski         2014-143         USA         Wisconsin         Walworth         2.3 Jun 18         Beulah Bog State Natural Area         8.           Status         4         ACCTTC         angustfolium         8. Patkowski         2018-1438         USA         Wisconsin         Walworth         2.3 Jun 18         Beulah Bog State Natural Area         8.           Status         ALCCGTTC         angustfolium         8. Patkowski         2018-1438         USA         Wisconsin         Walworth         2.3 Jun 18         Beulah Bog State Natural Area         8.6           State Status         angustfolium         A.GCGTTC         angustfolium         A.Garett         ASSE         USA         Walworth         2.3 Jun 18         Beulah Bog State Natural Area         8.6           State State Status         angustfolium         A.Garett         ASSE         USA         Walworth         2.3 Jun 18         Beulah Bog State Natural Area         8.6           State Sta	SB5241 4 ACTGGTAA	flexuosum	A. Garrett	A146	USA	Pennsylvania	Pike Co.	25-Jun-13	Billings Pond	Billings Pond, N of Co. rd. 4004 (Blooming Grove Rd.), 1.1 mi W of BP
382525         4         AGCGTTC:         angustfolium         B. Platkowski         2018-1478         USA         Wisconsin         Wisconsin         23-Jun 38         Beukin Bog State Natural Area         as           582525         4         TGGTCCC         angustfolium         A. Garrett         AGS6         USA         Walconsin         Valorabits         08-Hook 14         Incolander         Net of Falamatic Stammenter along Nordale RJ, Junt 5 of Chema H            582524         TGGTCCC         angustfolium         A. Garrett         AG555         USA         Alaska         Falarahis North Star         08-Hook 14         Hordander         Matrix 16-Staffs         Net of Falamatic Stammenter along Nordale RJ, Junt 5 of Chema H	SB5249 4 CCTAATCG	angustifolium	B. Piatkowski	2018-143B	USA	Wisconsin	Walworth	23-Jun-18	Beulah Bog	Beulah Bog State Natural Area BB
SB2522         4         TGGTCGCC         aggustfolum         A. Garrett         AGS6         USA         Alaska         Fathanks North Star         0 eNo-14 (incident)         Not of antibaski stam conter along Neodelish (incident)         Incident)         Incident)           S82325         4         TGGTCGCC         aggustfolium         A. Garrett         ADS55         VL         Alaska         Fathanks North Star         0 eNo-14 (incident)         Not of antibaski stam conter along Neodelish (incident)         Incident)	SB5250 4 ACTCTCAG	angustifolium	B. Piatkowski	2018-145B						
	SB5252 4 TGGTCCGC	angustifolium	A. Garrett	AG586	USA	Alaska	Fairbanks North Star	08-Nov-14	NordaleRd	NE of Fairbanks town center along Nordale Rd. just S of Chena H

