

Seaweeds of the Faroe Islands

An annotated checklist

Tarar í føroyskum øki.

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Úrtak

Í tíðini juli 1994 til august 2000 vórðu sum liður í BIOFAR-verkætlunum tarar og algur savnað á 265 støðum kring Føroyar. Øll navngreinað sløg eru sett í lista og sløg og nøvn brúkt frá 1896 eru tikin við. Tilsaman 265 sløg vórðu funnin: 114 reyðtarar, 83 brúntarar, 4 gulgrønalgur og 64 grønalgur, av hesum vórðu 44 funnin fyri fyrstu ferð í Føroyum. Eisini vórðu funnar 18 blágrønalgur. Fyri eitt slag av hesum verður skotið upp at nýta heitið *Sphaenosiphon farlowi* (Børgesen) R.Nielsen and K.Gunnarsson comb.nov.

Abstract

Collections of marine algae were made at 265 stations between July 1994 and August 2000 as part of the BIOFAR programme. The identified species are listed including previous records and names used in publications about marine algae from the Faroe Islands since 1896. The 113 Rhodophyceae, 83 Phaeophyceae, 4 Xanthophyceae and 64 Chlorophyceae listed here total 264 species, 42 of these are new records for the Faroe Islands. We also identified 18 Cyanophyceae, for one of them *Sphaenosiphon farlowii* (Børgesen) R. Nielsen and K. Gunnarsson comb. nov. is proposed.

Introduction

A comprehensive study of the marine flora and fauna of the Faroes, known as the BIOFAR project was initiated in 1987 (Nørrevang *et al.*, 1994). In the beginning the main objective was to make an inventory of the marine benthic fauna living in the Faroese waters. Since 1994 the project has focused on organisms in the littoral and shallow sublittoral and the marine benthic macroalgae were included (Sørensen *et al.*, 2001). A description of different communities of marine plants and animals on the shores and in the shallow water around the islands was given by Bruntse *et al.* (1999a) and the effect of wave exposure on the distribution of littoral algae by Bruntse *et al.* (1999b) and Lein *et al.* (2001).

The first published account of the marine benthic macroalgae of the Faeroes dates back to J. Landt (1800). An important early collection is Lyngbye's 'Tentamen hydrophytologiae danicae' (Lyngbye, 1819)

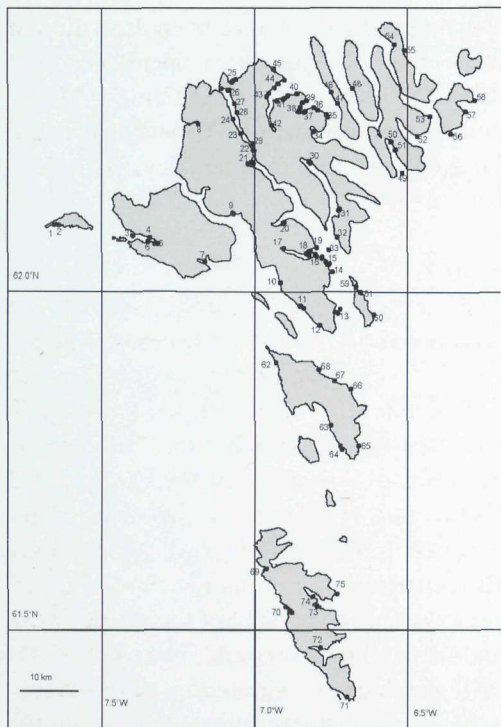


Fig. 1. Locations of the sampling stations at the Faroe Islands, 1994-2000.

that includes a number of Faroese algae of which some were described as new species. A summary of the old literature on the marine algae of the Faroe Islands is included by Børgesen (1902), and Irvine (1982).

Comprehensive studies of the marine algae of the Faroe Islands took place around 1900. Simmons (1897) was the first to publish a general description of the vegetation and listed about 125 species. At the same time Børgesen initiated a study of the marine flora and published a preliminary list of species new to the Faroe Islands (Børgesen in Børgesen and Hansen, 1896). He

collected algae in spring and summer months in the period 1895-1900 and in 1902. In addition he obtained a collection made by H. Jónsson in the autumn and early winter 1897, and also studied older material maintained at the Botanical Museum, Copenhagen. A detailed account for 216 species of marine algae was included in 'The Botany of the Færøes' (Børgesen, 1902). This was supplemented with a description of the algal vegetation (Børgesen, 1904a; 1905a) commented by Børgesen (1904b; 1905b), Porsild and Simmons (1904) and Simmons (1905). A biogeographical survey of the marine algae of the Arctic Sea and of the northernmost part of the Atlantic was published by Børgesen and Jónsson (1905).

The last major investigation of the marine algae in the area took place in the summer 1980. This was the first time collections were obtained by diving. The distribution of sublittoral algae in sheltered fjords and sounds and at open shores were illustrated and 223 species of bluegreen, red, brown and green algae recorded (Irvine, 1982; Price and Farnham, 1982; Tittley *et al.*, 1982). Studies were also undertaken at selected localities by two students, Rex (1970, unpubl. report) and Holt (1975, unpubl. report) cited by Irvine (1982).

Information on marine algae of the Faroe Islands has also been included in a number of monographs *e.g.* Petersen (1911), Kornmann (1962b), Hoek (1963), Lokhorst and Trask (1981), Prud'homme van Reine (1982), and Athanasiadis (1996).

This paper lists species of marine benthic macroalgae collected in the years 1994 to

2000 and identified as part of the BIOFAR project. It also includes comments on other species recorded for the Faroe Islands since 1897. The line drawings of seaweeds accompanying the paper are original illustrations of Faroese algae prepared by Astrid Andreassen.

Material and methods

The BIOFAR collections of macroalgae were made at 265 stations between July 1994 and August 2000. Detailed information about date of sampling, location, depth, and substrate for the individual stations is presented by Sørensen *et al.* (2001), their locations are indicated in Fig. 1 and Table 1. Most collections were made by the authors during 10 visits to the Faroe Islands, others were made by staff at the Kaldbak Marine Biological Laboratory.

Algae were collected selectively by hand at low tide in the littoral zone and by Scuba-diving at sublittoral levels to 30 m depth. Divers collected algae into hand-nets with a 0.5 mm mesh size. A few samples were obtained by dredging between 15 and 35 m. Collections were made in all seasons but less frequently during winter. An effort was made to include collections from a wide range of habitats. When possible the samples were placed in running sea water in the laboratory and dealt with while fresh. If the collecting stations were distant from the laboratory or the time too short, the samples were fixed in 2% formalin-seawater. Macroscopic algae were prepared as herbarium specimens; when required material was also mounted in KARO® (corn syrup) as permanent microscope slides.

Voucher specimens have been deposited in the Botanical Museum Copenhagen and duplicate collections at the Faroese Museum of Natural History, Tórshavn and the Marine Research Institute, Reykjavik, Iceland.

Results

The present list includes species of Cyanophyceae (Nostocophyceae), Rhodophyceae (Bangiophyceae), Phaeophyceae (Fucophyceae), Xantophyceae (Tribophyceae) and Chlorophyceae. The use of class-names follows Silva *et al.* (1996). Names not in current use but applied by Simmons (1897) and in later publications about marine algae from the Faroe Islands are given. Author names are abbreviated according to Brummit and Powell (1992).

For each entry there is at least one reference to a good description or illustration. The BIOFAR stations where the species were collected are listed, and depth distribution, month of collection and observations of reproductive structures are noted.

In the list of excluded species are early records of species based on misidentifications, uncertain records require confirmation, and species known to be no longer present.

The list includes the following symbols:

*: new or previously unpublished records for the Faroe Islands

(): collection from a wide depth range.

Depth distribution: only handpicked material included.

SEAWEEDS OF THE FAROE ISLANDS
AN ANNOTATED CHECKLIST

Table 1. Station numbers and corresponding numbers in the map, Fig. 1.

The details of collection dates, depths and geographical coordinates for each station can be found in Sørensen *et al.* (2001).

station	map no.	station	map no.	station	map no.	station	map no.	station	map no.	station	map no.	station	map no.
1001	26	1040	20	1146	18	1288	4	1365	70	1702	44	1760	70
1002	26	1041	20	1174	11	1289	5	1366	70	1703	43	1761	54
1003	18	1042	20	1175	25	1290	5	1371	50	1709	18	1762	50
1004	18	1043	20	1176	25	1291	5	1372	49	1710	13	1763	53
1005	18	1044	18	1183	22	1292	39	1373	49	1711	13	1764	6
1006	18	1045	18	1184	22	1293	38	1374	49	1712	13	1765	27
1007	18	1046	18	1187	41	1294	38	1375	50	1713	13	1766	37
1008	18	1047	7	1191	41	1295	38	1376	56	1714	18	1767	72
1009	33	1048	7	1192	41	1296	38	1377	56	1715	18	1768	10
1010	33	1049	18	1195	32	1297	34	1378	56	1716	18	1769	10
1011	33	1050	25	1196	15	1298	34	1379	56	1717	18	1770	37
1012	15	1110	18	1228	61	1299	34	1380	51	1718	18	1771	27
1013	15	1111	18	1229	41	1300	34	1381	51	1719	68	1772	27
1014	15	1112	18	1231	60	1301	34	1382	51	1720	67	1773	37
1015	15	1113	18	1233	41	1305	18	1496	52	1721	66	1774	37
1016	69	1114	14	1234	41	1306	5	1527	48	1722	65	1775	54
1017	69	1115	17	1235	41	1341	18	1530	48	1723	64	1776	54
1018	69	1116	17	1236	41	1343	3	1532	48	1724	64	1777	50
1019	69	1117	17	1237	19	1344	3	1682	29	1725	63	1778	50
1020	69	1118	17	1238	19	1346	3	1683	43	1726	63	1779	53
1021	73	1119	30	1239	19	1347	15	1684	28	1727	63	1780	53
1022	73	1120	30	1240	18	1348	59	1685	43	1728	62	1781	6
1023	73	1121	30	1272	42	1349	12	1686	23	1729	62	1782	6
1024	73	1122	30	1273	42	1350	45	1687	24	1730	62	1783	2
1025	75	1123	16	1274	42	1351	45	1688	35	1731	62	1784	1
1026	75	1124	18	1275	21	1352	11	1689	35	1732	62	1785	1
1027	75	1126	31	1276	11	1353	25	1690	36	1733	18	1850	72
1028	75	1127	31	1277	11	1354	9	1691	36	1734	16	1851	74
1029	75	1128	31	1278	11	1355	9	1692	46	1735	16	1852	72
1030	45	1129	31	1279	20	1356	18	1693	47	1736	16	1853	74
1031	45	1130	30	1280	38	1357	71	1694	37	1737	16	1903	70
1032	45	1132	16	1281	39	1358	71	1695	37	1738	16	1911	57
1033	15	1134	16	1282	26	1359	71	1696	38	1739	16	1912	57
1034	45	1137	21	1283	26	1360	71	1697	39	1754	40	1913	58
1035	55	1138	21	1284	26	1361	71	1698	41	1756	73	1914	58
1036	55	1139	21	1285	26	1362	71	1699	40	1757	18	1915	8
1037	55	1140	21	1286	26	1363	70	1700	44	1758	3	1916	22
1038	55	1142	12	1287	4	1364	70	1701	44	1759	10		

Table 1. Station numbers and corresponding numbers in the map, Fig. 1. The details of collection dates, depths and geographical coordinates for each station can be found in Sørensen *et al.*, (2001).

CYANOPHYCEAE (NOSTOCOPHYCEAE)

Calothrix scopulorum (F. Weber & D. Mohr)

C. Agardh ex Bornet & Flahault

Reference: Frémy (1934).

Stations: 1016, 1047, 1048, 1049, 1050, 1126, 1137, 1272, 1279, 1280, 1282, 1289, 1297, 1305, 1349, 1352, 1353, 1354, 1357, 1358, 1363, 1682, 1684, 1687, 1688, 1690, 1692, 1695, 1697, 1718, 1738, 1769, 1773, 1774, 1775, 1779, 1780, 1781, 1783, 1784, 1785, 1850, 1851, 1852, 1913.

Littoral.

Remarks: collected in April-October. On rocks and barnacles.

Chroococcopsis amethystea (Rosenv.) Geitler

Pleurocapsa amethystea Rosenv.

Reference: Frémy (1934), Komárek and Anagnostidis (1999).

Stations: 1297, 1364, 1686, 1688, 1694, 1697, 1700, 1701.

Littoral.

Remarks: collected in May, September-October. Epiphytic on *Rhodochorton purpureum*, *Chaetomorpha* sp. and *Cladophora rupestris*. Revision required, see Komárek and Anagnostidis (1999).

Dermocarpa schousboei (Thur.) Bornet

Reference: Frémy (1934), Komárek and Anagnostidis (1999, as *Xenococcus schousboei* Thur.).

Stations: 1305, 1349, 1687, 1785.

Littoral.

Remarks: collected in April, August-October. Endospores in August. Epiphytic on *Polysiphonia lanosa*, *Rhodochorton purpureum*, *Elachista fucicola*, and epizoic on periostracum of *Littorina obtusata* L.

Dermocarpa violacea P. Crouan & H. Crouan

Reference: Feldmann and Feldmann (1953), Frémy (1934).

Stations: 1119, 1273, 1279, 1289, 1346, 1352, 1364, 1684, 1692, 1700, 1717, 1774, 1853.

Littoral to 4 (-5) m depth.

Remarks: collected in February, April-October. Endospores in February, May, September-October. On rocks, epiphytic on *Lomentaria articulata*, *Osmundea pinnatifida*, *Polysiphonia lanosa*, *Phycodrys rubens*, *Elachista fucicola*, *Fucus*

evanescens, *F. vesiculosus*, *Cladophora* sp., epizoic on *Patella vulgata* (L.) and barnacles. Comparison with type material confirmed the identity of the material studied by Feldmann and Feldmann (1953). A different taxa was recorded by Komárek and Anagnostidis (1999, as *Cyanocystis violacea* (P. Crouan & H. Crouan) Komárek & Anagnost.

Gloeocapsopsis crepidinum (Thur.) Geitler ex

Komárek

Reference: Frémy (1934, as *Gloeocapsa crepidinum* Thur.), Komárek and Anagnostidis (1999).

Stations: 1126, 1272, 1279, 1282, 1289, 1349, 1358, 1690, 1738, 1768, 1769, 1774, 1783, 1784, 1785, 1850, 1913.

Littoral.

Remarks: collected in April-October.

Hyella balani E. B. J. Lehm.

Reference: LeCampion-Alsumard and Golubic (1985).

Stations: 1126, 1272, 1279, 1280, 1281, 1288, 1297, 1349, 1353, 1354, 1683, 1686, 1687, 1689, 1691, 1692, 1697, 1701, 1702, 1703, 1773, 1852.

Littoral.

Remarks: collected in April-October. Endospores in October. Endolithic in barnacles and *Spirorbis* sp. on *Fucus vesiculosus*.

Hyella caespitosa Bornet & Flahault

Reference: LeCampion-Alsumard and Golubic (1985).

Stations: 1034, 1036, 1274, 1279, 1300, 1352, 1363, 1683, 1688, 1701, 1716, 1727, 1850.

Littoral to 15 m depth.

Remarks: collected in February and May-October. Endolithic in barnacles, *Spirorbis* sp. and mollusc shells.

Hyella endophytica Børgesen

Reference: Børgesen (1902).

Stations: 1354, 1738, 1781.

Littoral.

Remarks: collected in May-June and August. Endophytic in *Chondrus crispus*.

Leptolyngbya battersii (Gomont) Anagnost. &

Komárek

Reference: Frémy (1934, as *Plectonema battersii* Gomont).

Stations: 1016, 1050, 1279, 1282, 1347, 1349, 1352, 1353, 1354, 1357, 1358, 1363, 1682, 1683, 1688,

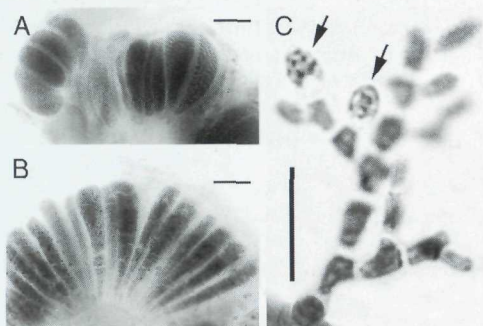


Fig. 2A, B. *Sphaenosiphon farlowii*. C. *Acrochaetium hallandicum* with monosporangia (arrows). Scale bars 20 μ m.

1690, 1695, 1700, 1709, 1718, 1720, 1738, 1759, 1762, 1768, 1769, 1773, 1774, 1775, 1777, 1780, 1781, 1783, 1784, 1850, 1851, 1913.

Littoral and littoral rockpool.

Remarks: collected in February and April-October.

Leptolyngbya terebrans (Bornet & Flahault ex Gomont) Anagnost. & Komárek
Reference: Frémy (1934, as *Plectonema terebrans* Bornet & Flahault ex Gomont).

Stations: 1123, 1126, 1288, 1289, 1301, 1774.

Littoral to 20 m depth.

Remarks: collected in June-July and September. In shells of barnacles and molluscs.

Lyngbya lutea (C.Agardh) ex Gomont

Reference: Frémy (1934).

Stations: 1272, 1687, 1695, 1701.

Littoral.

Remarks: collected in September-October.

Lyngbya martensiana Menegh. ex Gomont

Reference: Frémy (1934).

Station: 1120.

Littoral.

Remarks: collected in June.

Microcoleus chthonoplastes (Mert.) Zanard. ex Gomont

Reference: Frémy (1934).

Station: 1048.

Littoral.

Remarks: collected in May.

Phormidium autumnale (C.Agardh) ex Gomont

Reference: Frémy (1934).

Station: 1297.

Littoral.

Remarks: collected in September.

Rivularia atra Roth ex Bornet & Flahault

Reference: Frémy (1934).

Stations: 1050, 1288, 1347, 1349, 1353.

Littoral.

Remarks: collected in April-May and September.

Sphaenosiphon farlowii (Børgesen) R.Nielsen & K.Gunnarsson, comb. nov. (Fig. 2A, B)

Basionym: *Dermocarpa farlowii* Børgesen, 1902 p. 52.

Reference: Børgesen (1902), Komárek and Anagnostidis (1999, as *Cyanocystis farlowii* (Børgesen) Komárek & Anagnost.)

Stations: 1363, 1364 1684, 1687, 1717, 1851.

Littoral and littoral rockpools.

Remarks: collected in February, May, August and October. Endospores in May and August. Epiphytic on *Polysiphonia lanosa*. Vegetative cell divisions were not observed. The new combination is necessary because *Sphaenosiphon* Reinsch (1875) has priority to *Cyanocystis* Borzi (1882), see Silva *et al.* (1996).

Sphaenosiphon olivaceus Reinsch

Reference: Frémy (1934, as *Dermocarpa olivacea* (Reinsch) Tilden), Komárek and Anagnostidis (1999, as *Cyanocystis olivacea* (Reinsch) Komárek & Anagnost.).

Stations: 1294, 1359, 1691, 1701.

Littoral and sublittoral to 10 m depth.

Remarks: collected in April-May, September-October.

On rocks, epizoic on barnacles and *Patella vulgata*.

Spirulina subsalsa Oerst. ex Gomont

Reference: Frémy (1934).

Stations: 1119, 1683, 1687, 1780.

Littoral and (3-5) m depth.

Remarks: collected in June-July and October. On rocks and barnacles.

RHODOPHYCEAE (BANGIOPHYCEAE)

Acrochaetium alariae (Jónss.) Batters

Audouinella alariae (Jónss.) Woelk., *Chantransia alariae* Jónss.

References: Jónsson (1901), Kuiper (1983, as *Chromastrum alariae* (Jónss.) Papenf.)

Stations: 1110, 1124, 1305, 1352.

Sublittoral 0-1 m depth.

Remarks: collected in May-June and September.

Monosporangia throughout. Epiphytic on *Alaria esculenta*.

Acrochaetium collopodum (Rosenv.) Hamel

Reference: Stegenga and Mulder (1979, as *Chromastrum collopodum* (Rosenv.) Papenf.).

Station: 1126.

Lower littoral.

Remarks: collected in June with monosporangia. Epiphytic on *Chordaria flagelliformis*.

* **Acrochaetium hallandicum** (Kylín) Hamel (Fig. 2C)

Reference: Stegenga and Borsje (1977).

Stations: 1003, 1005, 1008, 1111.

Sublittoral (4-) 5-10 m depth.

Remarks: collected in May and July. Monosporangia throughout. Epiphytic on *Polysiphonia fibrillosa*, *P. stricta* and *Pterosiphonia parasitica*.

Acrochaetium secundatum (Lyngb.) Nägeli

Audouinella virgatula (Harv.) P.S.Dixon in Parke & P.S.Dixon, *Chantransia secundata* (Lyngb.) Thur., *C. virgatula* (Harv.) Thur. in LeJol.

References: Kornmann and Sahling (1977), Stegenga (1985).

Stations: 1008, 1016, 1020, 1024, 1033, 1034, 1037, 1042, 1043, 1045, 1049, 1110, 1115, 1116, 1118, 1119, 1120, 1121, 1124, 1126, 1127, 1132, 1134, 1137, 1138, 1272, 1273, 1274, 1275, 1278, 1279, 1280, 1281, 1283, 1287, 1288, 1289, 1291, 1297, 1305, 1347, 1349, 1351, 1352, 1354, 1357, 1358,

1363, 1364, 1365, 1371, 1376, 1530, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1694, 1695, 1697, 1700, 1703, 1709, 1717, 1719, 1720, 1722, 1724, 1732, 1733, 1738, 1756, 1768, 1769, 1771, 1772, 1773, 1774, 1775, 1777, 1778, 1779, 1781, 1782, 1783, 1784, 1850, 1851, 1852, 1903, 1911, 1912, 1913.

Littoral to 20 (-23) m depth.

Remarks: collected in February and April-October.

Monosporangia in May-October and tetrasporangia in September. Epiphytic on various red, brown and green algae.

Acrochaetium seiriolanum (R.J.H.Gibson) Hamel

Audouinella seiriolana (R.J.H.Gibson) P.S.Dixon in Parke & P.S.Dixon, *Rhodochorton seiriolanum* R.J.H.Gibson.

Reference: Dixon and Irvine (1977)

Remarks: recorded by Børgesen (1902). Later the same specimen was studied by Rosenvinge (1924, p. 390) who found a single chloroplast with a pyrenoid in each cell.

* **Aglaothamnion bipinnatum** (P.Crouan & H.

Crouan) Feldmann-Mazoyer

Reference: Maggs and Hommersand (1993).

Stations: 1130.

Sublittoral 10 m depth.

Remarks: collected in June with spermatangia, cystocarps and tetrasporangia, all reproductive structures on a single specimen. Epiphytic on *Desmarestia aculeata*.

Aglaothamnion hookeri (Dillwyn) Maggs & Hommers.

Callithamnion hookeri (Dillwyn) Gray, *C.*

polyspermum C.Agardh.

Reference: Maggs and Hommersand (1993).

Stations: 1137, 1364, 1684, 1687.

Littoral.

Remarks: collected in May-June and October.

Tetrasporangia in May and October. Epiphytic on *Aglaothamnion sepositum* and *Polysiphonia lanosa*.

Aglaothamnion priceanum Maggs, Guiry & Ruess

Reference: Maggs *et al.* (1991).

Remarks: recorded as *Callithamnion decompositum*

J.Agardh by Irvine (1982).

Aglaothamnion scopulorum (C.Agardh)

Feldmann-Mazoyer

Callithamnion scopulorum C.Agardh.

References: Børgesen (1902), Westbrook (1927).

Station: 1272, 1779.

Littoral.

Remarks: collected in July and September with tetrasporangia throughout.

Aglaothamnion sepositum (Gunnerus) Maggs & Hommers.*Callithamnion arbuscula* (Dillwyn) Lyngb., C.*sepositum* (Gunnerus) P.S.Dixon and J.H.Price.

Reference: Maggs and Hommersand (1993).

Stations: 1016, 1033, 1035, 1049, 1142, 1288, 1349, 1351, 1352, 1353, 1354, 1358, 1363, 1376, 1683, 1684, 1687, 1688, 1690, 1691, 1692, 1693, 1695, 1696, 1699, 1700, 1701, 1702, 1703, 1719, 1721, 1723, 1732, 1759, 1760, 1761, 1763, 1766, 1767, 1768, 1769, 1773, 1774, 1775, 1776, 1779, 1781, 1783, 1784, 1785, 1850, 1852, 1911, 1913, 1914.

Littoral.

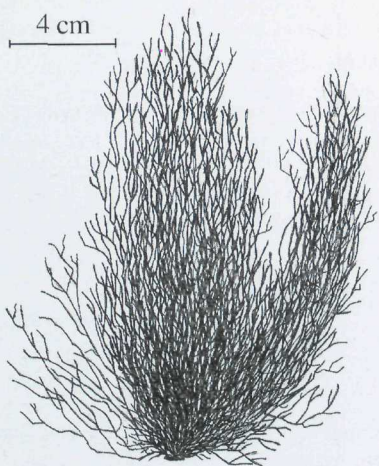
Remarks: collected in April-October. Spermatangia in August, cystocarps in May and August and tetrasporangia in May, July, August and October. On rocks and *Semibalanus balanoides* (L.), epiphytic on *Mastocarpus stellatus* and *Rhodomela ly-copodioides*.

Fig. 3. *Ahnfeltia plicata*. Scale bar 4 cm. Drawing Astrid Andreassen.

Ahnfeltia plicata (Huds.) Fr. (Fig. 3)*Sterrocolax decipiens* F.Schmitz.

Reference: Maggs and Poeschel (1989).

Stations: 1019, 1020, 1050, 1110, 1142, 1274, 1276, 1280, 1288, 1305, 1348, 1349, 1351, 1353, 1354, 1357, 1358, 1362, 1363, 1364, 1380, 1778.

Littoral rockpools and sublittoral (1-) 3-15 m depth.

Remarks: collected in April, May, July and September. Nemathecia in May.

Antithamnionella floccosa (O.F.Müll.) Whittick*Antithamnion floccosum* (O.F.Müll.) Kleen,*Callithamnion floccosum* O.F.Müll.

Reference: Maggs and Hommersand (1993).

Stations: 1026, 1142, 1278, 1351, 1360, 1364, 1380, 1381, 1530, 1716, 1728.

Littoral to 20 m depth.

Remarks: collected in February, May, July and September. Tetrasporangia in February and May. On rocks and epiphytic on *Corallina officinalis* and *Chaetomorpha melagonium*.**Audouinella efflorescens** (J.Agardh) Papenf.*Chantransia efflorescens* (J.Agardh) Kjellm.

Reference: Rosenvinge (1909).

Stations: 1008, 1029, 1032, 1118, 1360, 1372, 1379, 1724, 1726, 1727, 1731, 1736.

Sublittoral (4-) 5-25 m depth.

Remarks: collected in May-July. Monosporangia throughout and tetrasporangia in May. Cells in lower part of main filaments 4-6 mm broad. Epiphytic on *Corallina officinalis*, *Ptilota serrata*, *Desmarestia aculeata*, stipe and holdfast of *Laminaria hyperborea*, and epizoic on barnacles, hydroids and *Modiolus modiolus* (L.).**Audouinella membranacea** (Magnus) Papenf.*Rhodochorton membranaceum* (Magnus) Hauck.

Reference: Kornmann and Sahling (1977).

Stations: 1008, 1009, 1011, 1012, 1013, 1015, 1028, 1114, 1132, 1283, 1285, 1288, 1289, 1349, 1373, 1378, 1710, 1730, 1731, 1734, 1737, 1850.

Littoral to 25 m depth.

Remarks: collected in February and April-September. Monosporangia in June and tetrasporangia in February, May-July and September. Endozoic in bryozoans and hydroids.

Bangia atropurpurea (Roth) C.Agardh*Bangia fuscopurpurea* (Dillwyn) Lyngb.

See Brodie *et al.* (2001).

Boergeseniella fruticulosa (Wulfen) Kylin
Polysiphonia fruticulosa (Wulfen) Spreng.
Reference: Maggs and Hommersand (1993).
Remarks: recorded by Irvine (1982).

Bonnemaisonia hamifera Har.
Trailiella intricata Batters.
Reference: Kornmann and Sahling (1977).
Stations: 1038, 1293, 1372, 1380, 1381, 1382, 1530,
1532, 1701, 1711, 1712, 1773, 1775, 1776.
Littoral to 10 (-15) m depth.
Remarks: collected in February, May, July and Sep-
tember. Only filamentous tetrasporophytic phase.
Epiphytic on *Corallina officinalis* and on stipe and
holdfasts of *Laminaria hyperborea*.

Brongniartella byssoides (Gooden. & Woodw.)
F.Schmitz
Reference: Kornmann and Sahling (1977).
Stations: 1008, 1030, 1037, 1496.
Sublittoral (4-) 6-15 m depth.
Remarks: collected in July.

Callithamnion corymbosum (Sm.) Lyngb. var.
amphicarpa Thur.
Remarks: recorded by Børgesen (1902).

* **Callithamnion tetragonum** (With.) Gray
Reference: Maggs and Hommersand (1993).
Stations: 1726, 1727, 1903.
Sublittoral 5-10 (-12) m depth.
Remarks: collected in May and August. Tetrasporangia
in August. Epiphytic on *Alaria esculenta* and old
blade of *Laminaria hyperborea*.

Callocolax neglectus Schmitz ex Batters
Reference: Irvine (1983).
Stations: 1017, 1018, 1023, 1025, 1027, 1028, 1037,
1038, 1293, 1299, 1365, 1378, 1382.
Sublittoral 5-25 m.
Remarks: collected in May, July and September. Para-
sitic on *Callophyllis laciniata*.

Callophyllis cristata (C.Agardh) Kütz.
Euthora cristata (C.Agardh) J.Agardh.
Reference: Irvine (1983).
Stations: 1009, 1011, 1012, 1013, 1023, 1025, 1026,
1027, 1028, 1029, 1030, 1032, 1036, 1037, 1038,

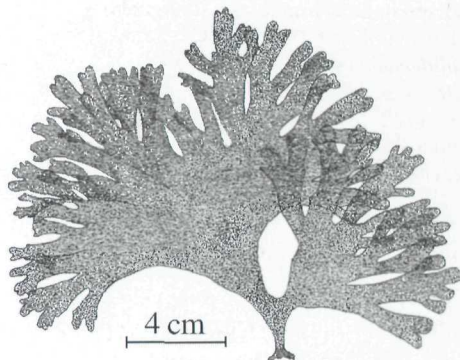


Fig. 4. *Callophyllis laciniata*. Scale bar 4 cm.
Drawing Astrid Andreasen.

1111, 1112, 1114, 1176, 1196, 1236, 1273, 1276,
1277, 1278, 1283, 1284, 1285, 1286, 1293, 1294,
1295, 1296, 1298, 1300, 1341, 1359, 1365, 1366,
1372, 1373, 1374, 1376, 1377, 1378, 1379, 1382,
1496, 1527, 1530, 1532, 1710, 1711, 1716, 1724,
1725, 1726, 1727, 1730, 1731, 1735, 1737.
Sublittoral 0-30 m.
Remarks: collected in January, February and May-Sep-
tember. Cystocarps in May and July, tetrasporangia
in January and July. On rocks and epiphytic on
stipe and holdfasts of *Laminaria hyperborea* and
holdfasts of *L. saccharina*.

Callophyllis laciniata (Huds.) Kütz. (Fig. 4)
Reference: Irvine (1983).

Stations: 1009, 1011, 1012, 1013, 1017, 1018, 1021,
1022, 1023, 1025, 1027, 1028, 1030, 1031, 1032,
1036, 1037, 1038, 1192, 1228, 1229, 1276, 1277,
1278, 1283, 1284, 1285, 1286, 1293, 1294, 1295,
1296, 1298, 1299, 1300, 1359, 1360, 1365, 1366,
1372, 1373, 1374, 1377, 1378, 1379, 1382, 1527,
1530, 1532, 1710, 1711, 1716, 1724, 1725, 1726,
1730, 1731, 1737.
Sublittoral (0-) 5-25 (-30) m.

Remarks: collected in February and May-September.
Spermatangia in September, cystocarps in May,
July and September and tetrasporangia in July. On
rocks and epiphytic on stipe and holdfasts of *Lami-
naria hyperborea*.

Ceramium atlanticum H.E.Petersen
Recorded by Petersen (1911).

Ceramium boergesenii H.E.Petersen

Recorded by Petersen (1911).

* **Ceramium diaphanum** (Lightf.) Roth

Reference: Maggs and Hommersand (1993).

Station: 1757.

Littoral.

Remarks: collected in July with spermatangia and cystocarps. Epiphytic on *Ceramium rubrum*. The record of *C. diaphanum* by Irvine (1982) covers probably another species as the current use of the epithet was different in 1982, see Maggs and Hommersand (1993).

Ceramium pallidum (Nägeli ex Kütz.) Maggs & Hommersand.

Reference: Maggs and Hommersand (1993).

Stations: 1007, 1020, 1045, 1124, 1126, 1142, 1174, 1175, 1187, 1275, 1279, 1281, 1287, 1348, 1349, 1353, 1354, 1362, 1364, 1371, 1380, 1684, 1687, 1696, 1697, 1702, 1722, 1727, 1732, 1733, 1738, 1739, 1757, 1769, 1771, 1773, 1775, 1850, 1912, 1913.

Littoral rockpools and sublittoral 0-5 m.

Remarks: collected in April-October. Spermatangia in September, cystocarps and tetrasporangia in May-July and September-October. On rocks and epiphytic on *Aglaothamnion sepositum*, *Ahnfeltia plicata*, *Mastocarpus stellatus*, *Polysiphonia lanosa*, *Rhodomela lycopodioides*, *Alaria esculenta*, *Chorda filum* and *Fucus vesiculosus*.

Ceramium rubrum (Huds.) C.Agardh

Reference: Maggs and Hommersand (1993, as *Ceramium nodulosum* (Lightf.) Ducluz.), see Silva *et al.* (1996) for notes to nomenclature.

Stations: 1008, 1016, 1019, 1024, 1028, 1041, 1042, 1043, 1110, 1115, 1116, 1118, 1119, 1120, 1121, 1124, 1130, 1137, 1140, 1142, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1285, 1287, 1288, 1291, 1300, 1305, 1341, 1348, 1353, 1357, 1361, 1363, 1364, 1380, 1381, 1682, 1684, 1686, 1687, 1692, 1693, 1695, 1697, 1699, 1701, 1709, 1716, 1717, 1757, 1768, 1771, 1774, 1851, 1853, 1912, 1913.

Littoral rockpools and sublittoral 0-15 m.

Remarks: collected in January-February and April-October. Spermatangia in May-June, cystocarps in May-July and September, tetrasporangia in May-

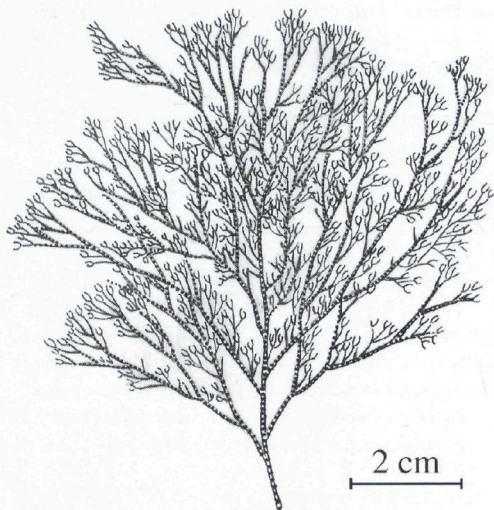


Fig. 5. *Ceramium secundatum*. Scale bar 2 cm.
Drawing Astrid Andreassen.

July and September-October. On rocks and epiphytic on *Ahnfeltia plicata*, *Chondrus crispus*, *Corallina officinalis*, *Cystoclonium purpureum*, *Furcellaria lumbricalis*, *Mastocarpus stellatus*, *Palmaria palmata*, *Rhodomela confervoides*, *Ascophyllum nodosum*, *Chordaria flagelliformis*, *Desmarestia aculeata* and stipe of *Laminaria hyperborea*.

Ceramium secundatum Lyngb. (Fig. 5)*Ceramium rubrum* f. *prolifera* subf. *secundata*(Lyngb.) Børgesen, *C. rubrum* f. *secundata*H.E.Petersen, *C. rubrum* f. *secundata* subf. *irregularis* H.E.Petersen.

Reference: Boo and Rueness (1994), Maggs and Hommersand (1993).

Stations: 1007, 1033, 1034, 1038, 1045, 1049, 1124, 1142, 1174, 1272, 1281, 1286, 1288, 1291, 1305, 1348, 1351, 1353, 1354, 1358, 1361, 1363, 1380, 1496, 1688, 1691, 1693, 1701, 1720, 1722, 1733, 1738, 1757, 1768, 1769, 1775, 1776, 1777, 1778, 1779, 1780, 1783, 1850, 1912, 1913.

Littoral to 15 m.

Remarks: collected in April-October. Spermatangia and cystocarps in July and September, tetrasporangia in May and July-September. On rocks and epiphytic on *Ahnfeltia plicata*, *Corallina officinalis*,

Mastocarpus stellatus, haptera of *Alaria esculenta* and *Laminaria hyperborea* and on *Chaetomorpha melagonium*.

Ceramium shuttleworthianum (Kütz.) Silva

Ceramium acanthonotum Carmich.

Reference: Maggs and Hommersand (1993).

Stations: 1016, 1033, 1049, 1272, 1281, 1297, 1347, 1352, 1358, 1363, 1380, 1624, 1683, 1686, 1687, 1688, 1693, 1695, 1696, 1697, 1700, 1701, 1702, 1703, 1719, 1732, 1759, 1760, 1761, 1764, 1766, 1768, 1769, 1773, 1774, 1775, 1779, 1781, 1783, 1784, 1785, 1850, 1852, 1911, 1912, 1913.

Littoral.

Remarks: collected in April-October. Cystocarps in October, tetrasporangia in July and October. On rocks, barnacles and epiphytic on *Corallina officinalis*.

Chondrus crispus Stackh. (Fig. 6)

Reference: Kornmann and Sahling (1977).

Stations: 1001, 1045, 1049, 1110, 1119, 1120, 1124, 1126, 1137, 1272, 1274, 1278, 1279, 1280, 1283, 1288, 1347, 1348, 1349, 1351, 1352, 1353, 1354, 1357, 1364, 1380, 1682, 1684, 1686, 1697, 1701, 1716, 1717, 1726, 1730, 1732, 1738, 1772, 1781.

Littoral to 20 m.

Remarks: collected in February and April-October. Cystocarps in July and September and tetrasporangia in May and September.

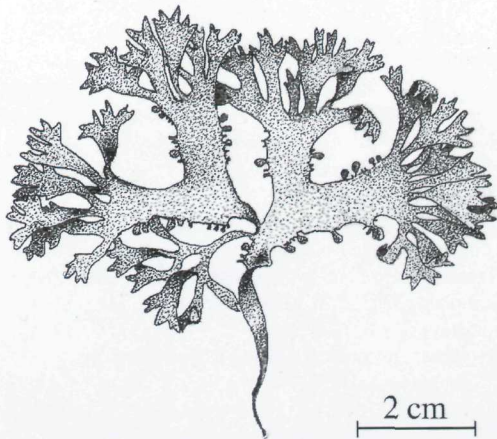


Fig. 6. *Chondrus crispus*. Scale bar 2 cm. Drawing Astrid Andreasen.

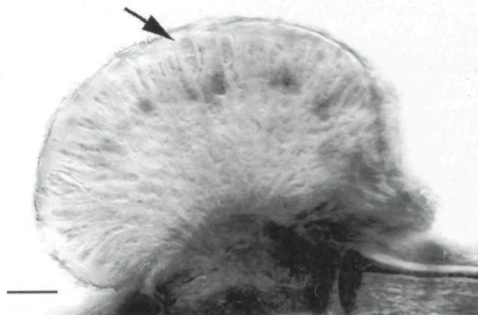


Fig. 7. *Choreocolax polysiphoniae* with tetrasporangium (arrow) epiphytic on *Polysiphonia stricta*. Scale bar 40 μ m.

Choreocolax polysiphoniae Reinsch (Fig. 7)

Reference: Irvine (1983).

Stations: 1009, 1011, 1012, 1025, 1137, 1349, 1352, 1357, 1358, 1363, 1364, 1687, 1737, 1851.

Littoral to 16 (-20) m.

Remarks: collected in April-August and October.

Tetrasporangia in May and July. Parasitic on *Polysiphonia lanosa* and *P. stricta*.

Clathromorphum circumscriptum (Strömf.) Foslie

Phymatolithon compactum (Kjellm.) Foslie.

See Wegeberg *et al.* (2001).

Coccotylus truncatus (Pall.) M.J. Wynne & J.N. Heine

Actinococcus subcutaneus (Lyngb.) Rosenv.,

Phyllophora brodiaei (Turner) J. Agardh, *P. truncata* (Pall.) Zinova.

Reference: Dixon and Irvine (1977).

Stations: 1025, 1027, 1276, 1283, 1284, 1286, 1295, 1296, 1298, 1299, 1300, 1301, 1365.

Sublittoral 5-20 (-25) m depth.

Remarks: collected in May and September. Nematocyst in September.

Colaconema daviesii (Dillwyn) Stegenga

Audouinella daviesii (Dillwyn) Woelk., *Chantransia*

daviesii (Dillwyn) Thur.

Reference: Stegenga (1985).

Stations: 1008, 1111, 1117, 1119, 1285, 1298.

Sublittoral (3-) 5-15 m depth.

Remarks: collected in May-July and September.

Monosporangia throughout. Epiphytic on *Ptilota gunneri*, *Desmarestia aculeata*, brown algal crust,

Derbesia marina and epizoic on hydroids.

Conchocelis phase

Conchocelis rosea Batters.

See Brodie *et al.* (2001).

***Corallina officinalis* L.**

See Wegeberg *et al.* (2001).

***Cruoria pellita* (Lyngb.) Fr.**

Reference: Maggs and Giry (1989).

Stations: 1008, 1011, 1012, 1013, 1015, 1018, 1021, 1022, 1023, 1025, 1027, 1029, 1030, 1031, 1036, 1038, 1040, 1127, 1128, 1139, 1273, 1274, 1276, 1278, 1283, 1284, 1286, 1295, 1296, 1359, 1360, 1365, 1366, 1372, 1377, 1378, 1379, 1710, 1711, 1713, 1716, 1725, 1726, 1727, 1730, 1731, 1735, 1736, 1776.

Lower littoral rockpools and sublittoral 0-25 (-30) m depth.

Remarks: collected in February, May-July and September. Cystocarps in February and tetrasporangia in February and June. On rocks, epiphytic on stipe and holdfasts of *Laminaria hyperborea* and epizoic on barnacles, *Buccinum undatum* L., *Modiolus modiolus* and *Pomatoceros triquetus* (L.).

***Cryptopleura ramosa* (Huds.) Kylin ex L. Newton**

Nitophyllum laceratum (S.G.Gmel.) Grev.

Reference: Maggs and Hommersand (1993).

Stations: 1285, 1366, 1372, 1374, 1710, 1711, 1776.

Lower littoral rockpools and sublittoral 5-25 m depth.

Remarks: collected in February, May, July and September. Tetrasporangia in February. Epiphytic on *Fimbrifolium dichotomum* and holdfasts of *Laminaria hyperborea*.

***Cystoclonium purpureum* (Huds.) Batters**

Reference: Dixon and Irvine (1977).

Stations: 1008, 1042, 1043, 1110, 1124, 1126, 1279, 1305, 1349, 1717, 1757.

Littoral to 4 (-8) m depth.

Remarks: collected in February, April-July and September. Cystocarps in September, tetrasporangia in June and September.

***Delesseria sanguinea* (Huds.) J.V.Lamour. (Fig. 8)**

Hydrolapathum sanguineum (L.) Stackh.

Reference: Maggs and Hommersand (1993).

Stations: 1008, 1009, 1011, 1012, 1017, 1018, 1019,



Fig. 8. *Delesseria sanguinea*. Scale bar 4 cm.
Drawing Astrid Andreassen.

1021, 1022, 1023, 1025, 1026, 1027, 1028, 1030, 1031, 1032, 1036, 1037, 1038, 1112, 1114, 1134, 1176, 1196, 1228, 1229, 1231, 1233, 1234, 1235, 1236, 1276, 1277, 1283, 1285, 1286, 1293, 1294, 1298, 1301, 1351, 1352, 1359, 1360, 1365, 1366, 1372, 1373, 1374, 1378, 1379, 1380, 1382, 1496, 1530, 1532, 1710, 1711, 1715, 1716, 1725, 1726, 1727, 1729, 1730, 1731, 1735, 1736, 1737, 1773, 1776, 1779.

Littoral to 25 m depth.

Remarks: collected in February and May-September. Cystocarps in February.

***Devaleraea ramentacea* (L.) Guiry**

Halosaccion ramentaceum (L.) J.Agardh.

Reference: Bird and McLachlan (1992).

Stations: 1272, 1273, 1274, 1349.

Littoral to 2 (-6) m depth.

Remarks: collected in April and September. Tetrasporangia in April.

***Dilsea carnosa* (Schmidel) Kuntze (Fig. 9)**

Dilsea edulis Stackh.

Reference: Irvine (1983).

Stations: 1017, 1018, 1019, 1020, 1023, 1025, 1026,

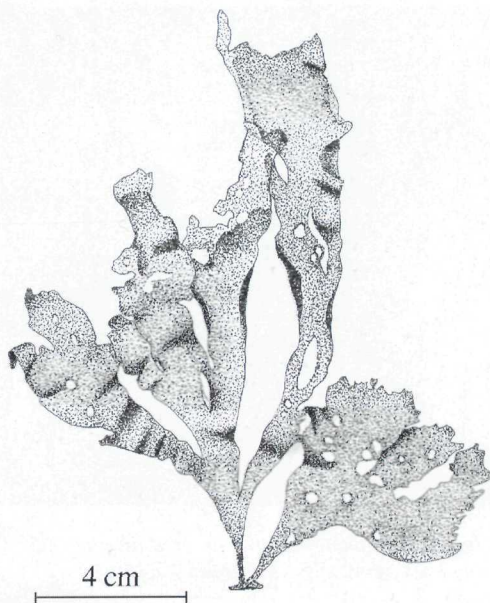


Fig. 9. *Dilsea carnosa*. Scale bar 4 cm. Drawing Astrid Andreassen.

1027, 1028, 1030, 1031, 1032, 1037, 1038, 1231, 1272, 1273, 1274, 1276, 1277, 1278, 1283, 1284, 1286, 1293, 1294, 1295, 1296, 1298, 1300, 1305, 1347, 1349, 1363, 1365, 1366, 1373, 1374, 1377, 1378, 1380, 1382, 1527, 1530, 1532, 1683, 1692, 1701, 1711, 1712, 1716, 1717, 1724, 1725, 1738, 1776, 1850, 1851, 1852.

Sublittoral 0-25 (-30) m depth.

Remarks: collected in February and April-October. On rocks and *Modiolus modiolus*.

Dumontia contorta (S.G.Gmel.) Rupr.

Dumontia filiformis (O.F.Müll.) Grev.

Reference: Irvine (1983).

Stations: 1007, 1034, 1042, 1043, 1045, 1049, 1110, 1115, 1116, 1120, 1121, 1126, 1127, 1137, 1142, 1272, 1275, 1279, 1280, 1281, 1305, 1347, 1348, 1349, 1351, 1353, 1357, 1358, 1363, 1364, 1371, 1380, 1722, 1733, 1738, 1775, 1776, 1785.

Littoral to 5 m depth.

Remarks: collected in April-September. Cystocarps in July and tetrasporangia in June-July and September.

* ***Erythrocladia irregularis*** Rosenv.

See Brodie *et al.* (2001).

Erythrodermis traillii (Holmes ex Batters) Guiry & Garbary

Phyllophora traillii Holmes ex Batters.

Reference: Maggs (1989).

Stations: 1008, 1011, 1012, 1027, 1029, 1295.

Sublittoral (4-) 6-16 (-20) m depth.

Remarks: collected in July and September. Spermatangia in July.

* ***Erythrotrichia bertholdii*** Batters

See Brodie *et al.* (2001).

Erythrotrichia carnea (Dillwyn) J.Agardh

Erythrotrichia ceramicola (Lyngb.) Aresch.

See Brodie *et al.* (2001).

Fimbrifolium dichotomum (Lepech.) G.I.Hansen

Rhodophyllis dichotoma (Lepech.) Gobi, *R. veprecula* J.Agardh.

Reference: Rueness (1977).

Stations: 1025, 1027, 1028, 1029, 1283, 1292, 1294,

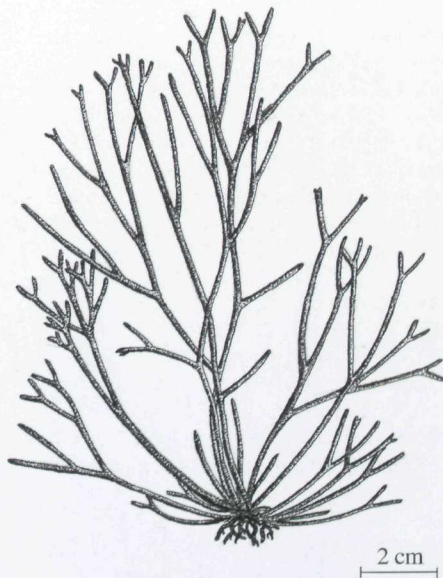


Fig. 10. *Furcellaria lumbricalis*. Scale bar 2 cm. Drawing Astrid Andreassen.

1295, 1296, 1298, 1299, 1300, 1301, 1377, 1381,
1382, 1496, 1527, 1710, 1711, 1735.

Sublittoral 5-25 (-30) m depth.

Remarks: collected in February, May-July and September. Cystocarps in February and September, tetrasporangia in February. On rocks and epiphytic on *Odonthalia dentata* and stipe of *Laminaria hyperborea*.

Furcellaria lumbricalis (Huds.) J.V.Lamour. (Fig. 10)
Fastigiaria furcellata (L.) Stackh., *Furcellaria fastigiata* (Huds.) J.V.Lamour.

Reference: Dixon and Irvine (1977).

Stations: 1019, 1025, 1032, 1034, 1038, 1137, 1142,
1187, 1236, 1272, 1276, 1278, 1349, 1351, 1353,
1357, 1363, 1365, 1366, 1380, 1527, 1532, 1692,
1697, 1701, 1776, 1782, 1912.

Littoral to 20 m depth.

Remarks: collected in April-October.

* **Haemescharia hennedyi** (Harv.) K.L.Vinogr. & T.A.Jacovleva (Fig. 11)

Reference: Wilce and Maggs (1989).

Stations: 1276, 1278, 1283, 1713, 1739, 1853.

Littoral rockpools and sublittoral (0-) 5-15 m depth.

Remarks: collected in February, June and August-September.



Fig. 11. *Haemescharia hennedyi*. Scale bar 20 μ m.

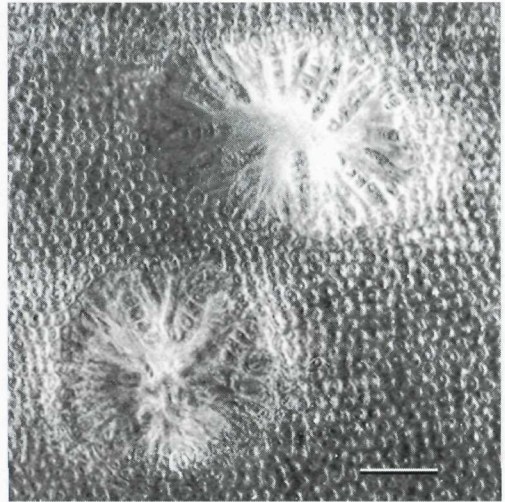


Fig. 12. *Hildenbrandia crouanii*. Conceptacles with zoned tetrasporangia. Scale bar 20 μ m.

Remarks: collected in February. On rocks and epiphytic on *Lithothamnion glaciale* and *Laminaria hyperborea*.

Halurus flosculosus (J.Ellis) Maggs & Hommers.
Griffithsia flosculosa (J.Ellis) Batters, *Griffithsia setacea* (J.Ellis) C.Agardh.

Reference: Maggs and Hommersand (1993).

Stations: 1026, 1027, 1284, 1532.

Sublittoral 5-20 m depth.

Remarks: collected in July and September.

Harveyella mirabilis (Reinsch) F.Schmitz & Reinke
in Reinke

Reference: Dixon and Irvine (1977).

Stations: 1273, 1364.

Littoral to 2 (-6) m depth.

Remarks: collected in May and September. Tetrasporangia throughout. Parasitic on *Rhodomela confervoides*.

* **Hildenbrandia crouanii** (J.Agardh) J.Agardh (Fig. 12)

Reference: Irvine and Chamberlain (1994).

Stations: 1276, 1363, 1682, 1773, 1775, 1852.

Littoral to 15 m depth.

Remarks: collected in May and July-October.

Tetrasporangia throughout.

Hildenbrandia rubra (Sommerf.) Menegh.

Hildenbrandia rosea Kütz.

Reference: Irvine and Chamberlain (1994).

Stations: 1272, 1280, 1363, 1364, 1686, 1687, 1769, 1771, 1775, 1779.

Littoral.

Remarks: collected in May, July, September and October. Tetrasporangia throughout.

Lithophyllum crouanii Foslie

Dermatolithon crouanii (Foslie) Hamel & McLemoine.

See Wegeberg *et al.* (2001).

Lithophyllum incrustans Phil.

See Wegeberg *et al.* (2001).

* **Lithophyllum orbiculatum** (Foslie) Foslie

See Wegeberg *et al.* (2001).

Lithothamnion glaciale Kjellm.

See Wegeberg *et al.* (2001).

Lomentaria articulata (Huds.) Lyngb. (Fig. 13)

Chylocladia articulata (Huds.) Grev.

Reference: Dixon and Irvine (1977), Rueness (1998).

Stations: 1016, 1034, 1038, 1048, 1142, 1174, 1280,

1281, 1347, 1348, 1349, 1351, 1352, 1353, 1354, 1358, 1363, 1380, 1683, 1688, 1689, 1692, 1696, 1697, 1738, 1773, 1779, 1781, 1850.

Littoral.

Remarks: collected in April-October. Tetrasporangia in July, August and October.

Lomentaria clavellosa (Turner) Gaillon

Chylocladia clavellosa (Turner) Grev.

Reference: Dixon and Irvine (1977), Rueness (1998).

Stations: 1008, 1009, 1012, 1019, 1020, 1032, 1036, 1037, 1038, 1045, 1175, 1176, 1187, 1196, 1228, 1234, 1236, 1276, 1278, 1284, 1293, 1298, 1352, 1359, 1366, 1372, 1379, 1382, 1532, 1716, 1726, 1727, 1731, 1737, 1760, 1762, 1763, 1766, 1767, 1776, 1903.

Littoral to 25 m depth.

Remarks: collected in February and May-September.

Spermatangia and cystocarps in July and September, tetrasporangia in May and July-September. On rocks and epiphytic on stipe and holdfast of *Laminaria hyperborea*.

Lomentaria orcadensis (Harv.) Collins ex

W.R.Taylor

Chylocladia rosea Harv., *Lomentaria rosea* (Harv.)

Turner.

Reference: Dixon and Irvine (1977), Rueness (1998).

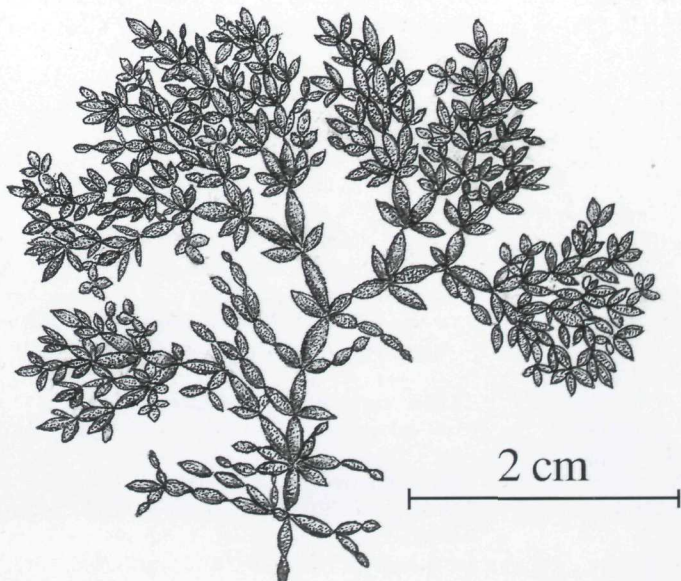


Fig. 13. *Lomentaria articulata*. Scale bar 2 cm. Drawing Astrid Andreasen.

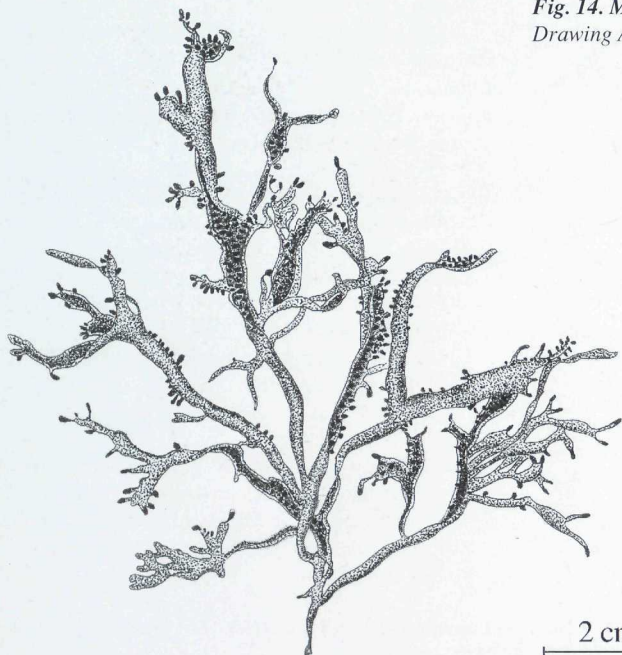


Fig. 14. *Mastocarpus stellatus*. Scale bar 2 cm.
Drawing Astrid Andreassen.

Stations: 1038, 1352, 1359, 1360, 1372, 1379, 1725,
1727, 1730, 1731.

Littoral to 25 m depth.

Remarks: collected in May and July. Tetrasporangia in
May. On rocks, often together with *Halichondria*
sp.

Mastocarpus stellatus (Stackh. in With.) Guiry in
Guiry *et al.* (Fig. 14)

Gigartina stellata (Stackh.) Batters, *G. mamillosa*
(Gooden. & Woodw.) J. Agardh.

References: Guiry and West (1983), Rueness (1998).

Stations: 1001, 1016, 1019, 1020, 1024, 1033, 1034,
1035, 1045, 1049, 1110, 1120, 1124, 1126, 1137,
1142, 1174, 1187, 1272, 1278, 1279, 1280, 1281,
1287, 1288, 1289, 1297, 1305, 1347, 1348, 1351,
1352, 1353, 1354, 1358, 1362, 1363, 1364, 1371,
1375, 1376, 1380, 1682, 1683, 1684, 1685, 1686,
1687, 1688, 1689, 1690, 1691, 1692, 1693, 1696,
1697, 1700, 1701, 1702, 1703, 1716, 1717, 1719,
1720, 1721, 1722, 1723, 1733, 1738, 1756, 1759,
1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767,
1768, 1769, 1771, 1772, 1773, 1775, 1777, 1779,
1781, 1783, 1784, 1850, 1851, 1853, 1911, 1912,
1913.

Littoral to 2 (-7) m depth.

Remarks: collected in April-October. Cystocarps in
September.

Meiodiscus spetsbergensis (Kjellm.) G.W. Saunders &
McLachlan

Audouinella spetsbergensis (Kjellm.) Woelk.,

Rhodochorton penicilliforme (Kjellm.) Rosenv.

Reference: Saunders and McLachlan (1991).

Stations: 1008, 1011, 1022, 1027, 1029, 1365, 1724,
1725, 1727, 1731, 1850, 1852.

Littoral to 25 m depth.

Remarks: collected in May and July-August. Mono-
sporangia in July, tetrasporangia in May. Epiphytic
on blade, stipe and holdfasts of *Laminaria hyper-*
borea, *Chaetomorpha melagonium* and epizoidic on
bryozoans, hydroids and *Modiolus modiolus*.

* ***Melobesia membranacea*** (Esper) J.V. Lamour.

See Wegeberg *et al.* (2001).

Membranoptera alata (Huds.) Stackh. (Fig. 15)

Delesseria alata (Huds.) J.V. Lamour.

Reference: Mags and Hommersand (1993).

Stations: 1001, 1008, 1009, 1012, 1013, 1016, 1017,

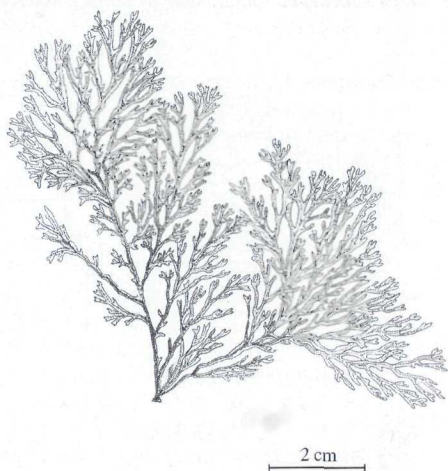


Fig. 15. *Membranoptera alata*. Scale bar 2 cm.
Drawing Astrid Andreassen.

1018, 1019, 1020, 1022, 1023, 1025, 1028, 1034,
1036, 1038, 1042, 1049, 1111, 1114, 1126, 1127,
1142, 1174, 1191, 1192, 1195, 1272, 1276, 1277,
1278, 1279, 1280, 1285, 1286, 1293, 1296, 1305,
1341, 1347, 1349, 1351, 1352, 1353, 1354, 1360,
1361, 1363, 1364, 1365, 1366, 1372, 1379, 1382,
1496, 1683, 1686, 1688, 1689, 1690, 1692, 1695,
1696, 1697, 1711, 1712, 1716, 1725, 1726, 1727,
1730, 1737, 1739, 1759, 1760, 1761, 1763, 1766,
1768, 1773, 1777, 1779, 1781, 1782, 1850, 1851,
1903.

Littoral to 20 (-25) m depth.

Remarks: collected in February and April-October.

Cystocarps in May and July, tetrasporangia in February, May and October. On rocks and epiphytic on *Ahnfeltia plicata*, *Coccolytus truncatus*, *Corallina officinalis*, *Furcellaria lumbricalis*, *Mastocarpus stellatus* and stipe of *Laminaria hyperborea*.

***Odonthalia dentata* (L.) Lyngb.**

Reference: Maggs and Hommersand (1993).

Stations: 1011, 1012, 1013, 1017, 1018, 1020, 1022,
1023, 1025, 1026, 1027, 1028, 1029, 1031, 1032,
1036, 1037, 1038, 1114, 1191, 1192, 1229, 1231,
1273, 1274, 1276, 1277, 1278, 1283, 1284, 1285,
1286, 1292, 1293, 1294, 1295, 1296, 1298, 1300,
1305, 1347, 1353, 1359, 1360, 1365, 1366, 1372,

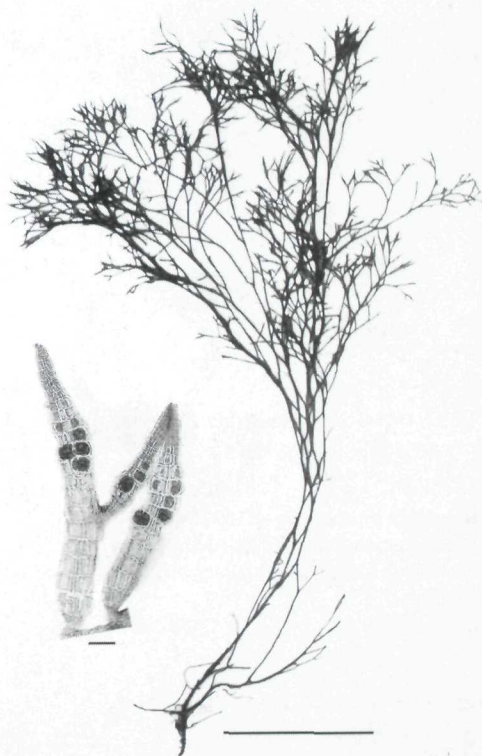


Fig. 16. *Ophiocladus simpliciusculus*. Scale bar 1 cm.
Insert: branches with tetrasporangia. Scale bar 100 μ m.

1373, 1374, 1377, 1378, 1379, 1380, 1382, 1496,
1530, 1532, 1701, 1710, 1711, 1712, 1716, 1724,
1725, 1726, 1727, 1736, 1763, 1903.

Littoral to 25 (-30) m depth.

Remarks: collected in February and April-October.

Cystocarps in February and tetrasporangia in February and May. On rocks and epiphytic on stipe of *Laminaria hyperborea*.

* ***Ophiocladus simpliciusculus* (P.Crouan & H.Crouan) Falkenb.** (Fig. 16)

Reference: Stegenga *et al.* (1997).

Station: 1852.

Littoral rockpool.

Remarks: collected in August with tetrasporangia.

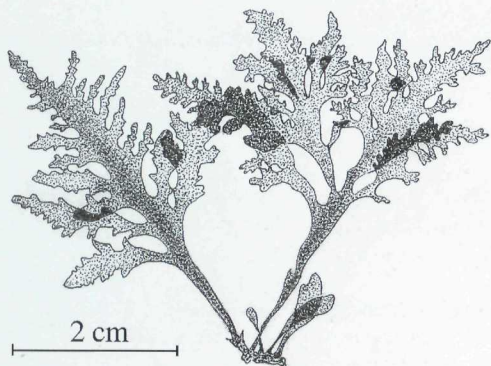


Fig. 17. *Osmundea pinnatifida*. Scale bar 2 cm.
Drawing Astrid Andreasen.

Osmundea pinnatifida (Huds.) Stackh. (Fig. 17)

Laurencia pinnatifida (Huds.) J.V.Lamour.

References: Maggs and Hommersand (1993), Nam *et al.* (1994).

Stations: 1346, 1758.

Littoral to 1 m depth.

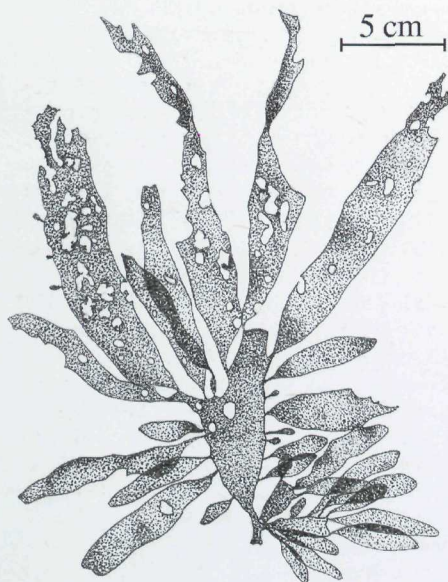


Fig. 18. *Palmaria palmata*. Scale bar 5 cm. Drawing Astrid Andreasen.

Remarks: collected in April and July. Tetrasporangia in April.

Palmaria palmata (L.) Kuntze (Fig. 18)

Rhodymenia palmata (L.) Grev.

Reference: Dixon and Irvine (1977).

Stations: 1008, 1016, 1019, 1020, 1022, 1023, 1024, 1033, 1034, 1035, 1045, 1047, 1048, 1049, 1110, 1114, 1124, 1126, 1127, 1137, 1142, 1174, 1175, 1184, 1187, 1272, 1273, 1274, 1278, 1280, 1281, 1285, 1286, 1287, 1288, 1289, 1297, 1305, 1306, 1346, 1347, 1348, 1349, 1351, 1352, 1353, 1354, 1355, 1357, 1358, 1361, 1362, 1363, 1364, 1371, 1376, 1380, 1532, 1682, 1683, 1684, 1685, 1687, 1688, 1689, 1690, 1692, 1693, 1694, 1695, 1696, 1697, 1701, 1702, 1703, 1711, 1717, 1720, 1721, 1722, 1723, 1727, 1732; 1733, 1737, 1738, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1850, 1851, 1853, 1903, 1913, 1914.

Littoral to 15 m depth.

Remarks: collected in February, April-October.

Tetrasporangia in April, May, July, September and October. On rocks, epiphytic on *Alaria esculenta*, *Fucus vesiculosus*, *Himantalia elongata*, stipe of *Laminaria digitata* and *L. hyperborea* and on barnacles.

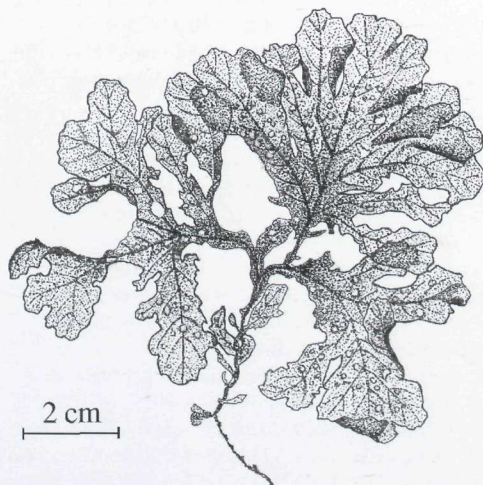


Fig. 19. *Phycodryus rubens*. Scale bar 2 cm. Drawing Astrid Andreasen.

Peyssonnelia dubyi P.Crouan & H.Crouan

Reference: Dixon and Irvine (1977).

Stations: 1008, 1009, 1012, 1013, 1015, 1017, 1021, 1022, 1023, 1027, 1040, 1126, 1127, 1128, 1273, 1276, 1278, 1279, 1294, 1296, 1300, 1301, 1353, 1365, 1366, 1379, 1382, 1710, 1711, 1713, 1714, 1715, 1716, 1720, 1724, 1725, 1735, 1781.

Littoral to 20 (-25) m depth.

Remarks: collected in February and May-September.

Tetrasporangia in February. On rocks, barnacles, mollusc shells and epiphytic on holdfasts of *Laminaria hyperborea*.**Phycodrys rubens** (L.) Batters (Fig. 19)*Delesseria sinuosa* (Gooden. & Woodw.) J.V.Lamour.

References: Jøhansen (1979), Maggs and Hommersand (1993).

Stations: 1003, 1004, 1005, 1006, 1008, 1009, 1011, 1012, 1013, 1014, 1015, 1016, 1019, 1020, 1021, 1022, 1023, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1036, 1037, 1038, 1112, 1114, 1126, 1127, 1128, 1130, 1132, 1134, 1138, 1139, 1140, 1142, 1146, 1191, 1192, 1195, 1196, 1273, 1274, 1276, 1277, 1278, 1280, 1283, 1284, 1285, 1286, 1292, 1293, 1294, 1295, 1296, 1298, 1299, 1300, 1301, 1341, 1349, 1351, 1352, 1360, 1366, 1372, 1373, 1374, 1377, 1379, 1380, 1381, 1382, 1527, 1530, 1532, 1692, 1710, 1711, 1712, 1714, 1715, 1716, 1725, 1726, 1730, 1731, 1734, 1735, 1736, 1737, 1776, 1779, 1850, 1903.

Littoral to 25 (-30) m depth.

Remarks: collected in January, February and April-October. Spermatangia in July and September, cystocarps in February and July-September, tetrasporangia in January, February, May, July and September. On rocks, epiphytic on *Corallina officinalis*, *Odonthalia dentata*, stipe and holdfasts of *Laminaria hyperborea*, epizoic on barnacles and *Modiolus modiolus*.**Phyllophora crispa** (Huds.) P.S.Dixon*Phyllophora rubens* (Gooden. & Woodw.) Grev.

Reference: Dixon and Irvine (1977).

Stations: 1018, 1019, 1030, 1031, 1032, 1036, 1037, 1284, 1296, 1365.

Sublittoral (0-) 5-25 m depth.

Remarks: collected in May, July and September. Spermatangia in September.

Phyllophora pseudoceranooides (S.G.Gmel.) Newroth

& A.R.A.Taylor

Phyllophora membranifolia (Gooden. & Woodw.)

J.Agardh.

Reference: Dixon and Irvine (1977).

Station: 1530.

Sublittoral 10 m depth.

Remarks: collected in July.

Phymatolithon laevigatum (Foslie) FoslieSee Wegeberg *et al.* (2001).**Phymatolithon lenormandii** (Aresch.) W.H.Adey*Lithothamnion lenormandii* (Aresch.) Foslie.See Wegeberg *et al.* (2001).**Phymatolithon purpureum** (P.Crouan & H.Crouan)

Woelk. & L.M.Irvine

Lithothamnion polymorphum (L.) Aresch.,*Phymatolithon polymorphum* (L.) Foslie.See Wegeberg *et al.* (2001).**Phymatolithon tenue** (Rosenv.) Düwel & Wegeberg*Leptophytum laeve* (Strömf.) W.H.Adey,*Lithothamnion laeve* (Strömf.) FoslieSee Wegeberg *et al.* (2001).**Plocamium cartilagineum** (L.) P.S.Dixon*Plocamium coccineum* (Huds.) Lyngb.

Reference: Dixon and Irvine (1977).

Stations: 1009, 1017, 1018, 1019, 1020, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1034, 1036, 1037, 1038, 1114, 1142, 1175, 1176, 1187, 1191, 1192, 1195, 1196, 1228, 1229, 1231, 1233, 1234, 1236, 1276, 1277, 1278, 1280, 1283, 1284, 1285, 1286, 1292, 1293, 1294, 1295, 1296, 1298, 1299, 1300, 1301, 1351, 1352, 1359, 1360, 1363, 1365, 1366, 1372, 1373, 1377, 1378, 1379, 1380, 1381, 1382, 1496, 1527, 1530, 1532, 1692, 1697, 1701, 1710, 1711, 1712, 1725, 1726, 1727, 1729, 1730, 1731, 1737, 1759, 1776, 1903.

Sublittoral 0-25 (-30) m depth.

Remarks: collected in February and May-October.

Cystocarps and tetrasporangia in February, May and July-September. On rocks and epiphytic on *Corallina officinalis*, *Dilsea carnosa*, *Phyllophora crispa*, *Ptilota gunneri*, *Desmarestia aculeata*, stipe and holdfasts of *Laminaria hyperborea*.**Plumaria plumosa** (Huds.) Kuntze*Plumaria elegans* (Bonnem.) F.Schmitz., *Ptilota*

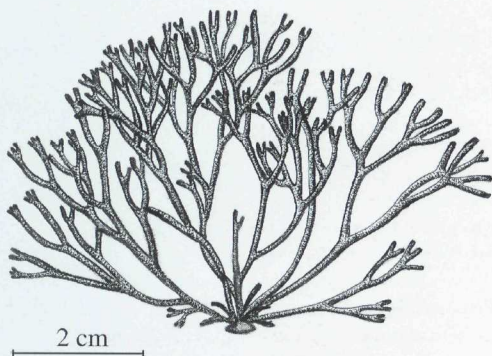


Fig. 20. *Polyides rotundus*. Scale bar 2 cm. Drawing Astrid Andreassen.

elegans Bonnem.

Reference: Maggs and Hommersand (1993).

Stations: 1130, 1373, 1686.

Littoral to 15 m depth.

Remarks: collected in May, June and October

Polyides rotundus (Huds.) Gaillon (Fig. 20)

Reference: Dixon and Irvine (1977).

Stations: 1124, 1126, 1127, 1137, 1273, 1274, 1276, 1279, 1292, 1300, 1301, 1305, 1349, 1357, 1363, 1364, 1717.

Littoral to 20 m depth.

Remarks: collected in February, April-June and September. Spermatangia and cystocarps in September.

Polysiphonia brodiaei (Dillwyn) Spreng.

Reference: Maggs and Hommersand (1993).

Stations: 1007, 1045, 1049, 1110, 1124, 1187, 1305, 1347, 1351, 1353, 1380, 1683, 1701, 1703, 1717, 1723, 1738, 1739, 1774, 1776, 1777, 1912, 1914.

Littoral.

Remarks: collected in February and April-October.

Cystocarps in August, tetrasporangia in May-June, August and October. On rocks and epiphytic on *Corallina officinalis*.

Polysiphonia elongata (Huds.) Spreng.

Reference: Maggs and Hommersand (1993).

Stations: 1008, 1026, 1027, 1041, 1116, 1119, 1140, 1273, 1291, 1300, 1381, 1382.

Sublittoral (2-) 5-20 m depth.

Remarks: collected in May-July and September. Sper-

matangia in June, cystocarps May-July and tetrasporangia in June and July.

Polysiphonia fibrata (Dillwyn) Harv. in Hook.

Reference: Maggs and Hommersand (1993).

Remarks: recorded by Irvine (1982).

Polysiphonia fibrillosa (Dillwyn) Spreng.

Polysiphonia violacea sensu Harv.

Reference: Maggs and Hommersand (1993).

Stations: 1003, 1005, 1006, 1008, 1012, 1013, 1015, 1032, 1036, 1038, 1116, 1118, 1119, 1128, 1130, 1229, 1237, 1238, 1239, 1240, 1273, 1716.

Sublittoral (2-) 5-20 m.

Remarks: collected in February and June-August.

Spermatangia in July and August, cystocarps and tetrasporangia in June-August. On rocks, epiphytic on *Chorda filum* and *Desmarestia aculeata*.

Polysiphonia fucoides (Huds.) Grev.

Polysiphonia nigrescens (Huds.) Grev. ex Harv.

Reference: Maggs and Hommersand (1993).

Stations: 1020, 1115, 1124, 1126, 1127, 1137, 1279, 1305, 1717.

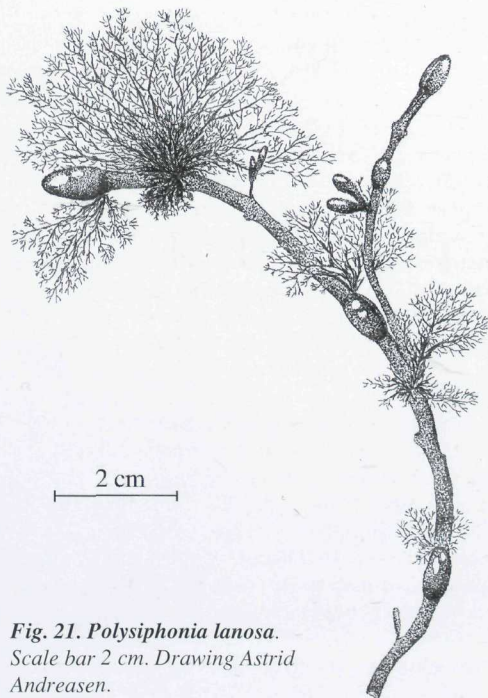


Fig. 21. *Polysiphonia lanosa*. Scale bar 2 cm. Drawing Astrid Andreassen.

Littoral to 2 (-5) m depth.

Remarks: collected in February, June, July and September. Cystocarps in June, tetrasporangia in June and September.

Polysiphonia lanosa (L.) Tandy (Fig. 21)

Polysiphonia fastigiata (Roth) Grev.

Reference: Maggs and Hommersand (1993).

Stations: 1001, 1113, 1126, 1137, 1142, 1183, 1272, 1297, 1305, 1349, 1357, 1358, 1363, 1364, 1682, 1684, 1686, 1687, 1709, 1717, 1756, 1851.

Littoral.

Remarks: collected in January, February and April-October. Spermatangia in May and June, cystocarps and tetrasporangia in June, August and September. Epiphytic on *Ascophyllum nodosum*.

Polysiphonia nigra (Huds.) Batters

Polysiphonia atrorubescens (Dillwyn) Grev.

Reference: Maggs and Hommersand (1993).

Stations: 1284, 1300, 1357, 1381.

Littoral to 20 m depth.

Remarks: collected in May and September.

Polysiphonia stricta (Dillwyn) Grev.

Polysiphonia lepadicola (Lyngb.) Sprengel, *P.*

urceolata (Lightf. ex Dillwyn) Grev.

Reference: Maggs and Hommersand (1993).

Stations: 1003, 1004, 1005, 1006, 1008, 1009, 1011, 1012, 1013, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1034, 1035, 1036, 1037, 1038, 1040, 1046, 1049, 1110, 1111, 1116, 1117, 1118, 1119, 1122, 1124, 1127, 1128, 1130, 1134, 1137, 1138, 1140, 1142, 1146, 1174, 1175, 1187, 1191, 1196, 1228, 1229, 1231, 1233, 1235, 1273, 1278, 1280, 1281, 1283, 1284, 1285, 1286, 1300, 1305, 1347, 1349, 1351, 1352, 1353, 1354, 1357, 1358, 1359, 1360, 1362, 1363, 1364, 1365, 1366, 1371, 1372, 1373, 1374, 1375, 1376, 1379, 1380, 1381, 1382, 1496, 1530, 1532, 1683, 1688, 1689, 1690, 1691, 1695, 1697, 1699, 1700, 1703, 1710, 1711, 1712, 1715, 1716, 1717, 1719, 1720, 1721, 1723, 1724, 1725, 1726, 1727, 1729, 1730, 1731, 1734, 1735, 1736, 1737, 1738, 1739, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1771, 1773, 1775, 1776, 1779, 1780, 1781, 1783, 1784, 1785, 1851, 1903, 1911, 1912, 1913, 1914.

Littoral to 25 m depth.

Remarks: collected in January, February and April-October.

Spermatangia in May and June, cystocarps in May-August and tetrasporangia in May-August and October. On rocks, epiphytic on *Corallina officinalis*, *Alaria esculenta*, *Desmarestia aculeata*, stipe and holdfasts of *Laminaria hyperborea* and epizoic on siphon of *Mya truncata* L.

Porphyra amplissima (Kjellm.) Setch. & Hus

Porphyra miniata (C.Agardh) C.Agardh f. *amplissima* (Kjellm.) Rosenv.

See Brodie *et al.* (2001).

Porphyra dioica Brodie & L.M.Irvine

Porphyra umbilicalis (L.) J.Agardh f. *laciniata* (C.Agardh) LeJol.

See Brodie *et al.* (2001).

Porphyra leucosticta Thur. in LeJol.

See Brodie *et al.* (2001).

Porphyra linearis Grev.

Porphyra umbilicalis (L.) J.Agardh f. *linearis* (Grev.) LeJol.

See Brodie *et al.* (2001).

Porphyra miniata (C.Agardh) C.Agardh

See Brodie *et al.* (2001).

Porphyra purpurea (Roth) C.Agardh

See Brodie *et al.* (2001).

Porphyra umbilicalis (L.) Kütz.

See Brodie *et al.* (2001).

Porphyropsis coccinea (J.Agardh ex Aresch.) Rosenv.

Porphyra coccinea J.Agardh ex Aresch.

See Brodie *et al.* (2001).

Porphyrostromium boryanum (Mont.) Trevis.

Erythrotrichia boryana (Mont.) Berthold.

See Brodie *et al.* (2001).

Pterosiphonia parasitica (Huds.) Falkenberg

Polysiphonia parasitica Huds.

Reference: Maggs and Hommersand (1993).

Stations: 1003, 1004, 1005, 1006, 1008, 1011, 1012, 1013, 1015, 1016, 1017, 1021, 1022, 1026, 1030, 1114, 1132, 1134, 1235, 1284, 1286, 1365, 1366, 1372, 1710, 1715, 1716, 1735, 1736, 1737, 1754, 1903.

Sublittoral (4-) 5-25 m depth.

Remarks: collected in February and May-September.

Spermatangia and cystocarps in June, tetrasporangia in June, July and September. On rocks and epiphytic on *Odonthalia dentata* and holdfasts of *Laminaria hyperborea*.

Pterothamnion plumula (J.Ellis) Nägeli

Antithamnion plumula (J.Ellis) Thur. ex LeJol. var. *plumula*.

Reference: Maggs and Hommersand (1993).

Stations: 1008, 1026, 1027, 1031, 1112, 1273, 1300.

Sublittoral (2-) 6-20 m depth.

Remarks: collected in May, July and September. Spermatangia in July and September, cystocarps in July, tetrasporangia in September. Epiphytic on *Polysiphonia elongata* and holdfasts of *Laminaria saccharina*.

Pterothamnion spinescens (Strömf.) Athanas.

Remarks: recorded by Athanasiadis (1996).

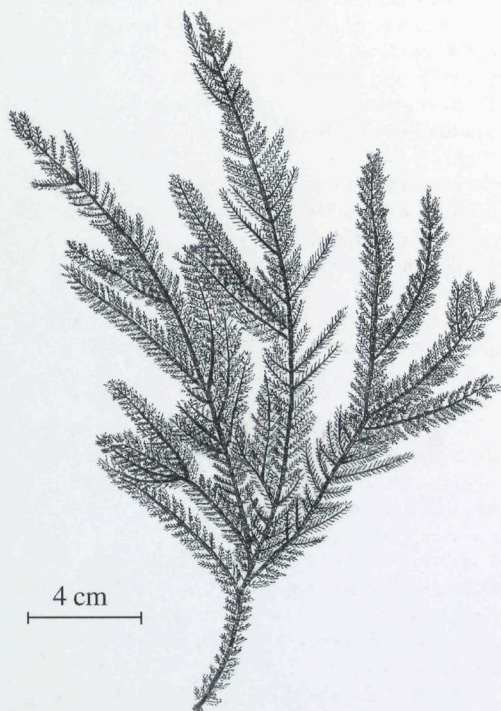


Fig. 22. *Ptilota gunneri*. Scale bar 4 cm. Drawing Astrid Andreasen.

Ptilota gunneri P.C.Silva, Maggs and L.M.Irvine (Fig. 22)

Ptilota plumosa (Huds.) C.Agardh.

Reference: Maggs and Hommersand (1993).

Stations: 1008, 1009, 1011, 1017, 1018, 1020, 1022, 1023, 1025, 1026, 1028, 1032, 1036, 1038, 1126, 1127, 1134, 1140, 1191, 1276, 1277, 1283, 1285, 1293, 1294, 1295, 1296, 1298, 1299, 1352, 1372, 1373, 1375, 1377, 1379, 1382, 1530, 1532, 1697, 1710, 1716, 1725, 1726, 1727, 1730, 1731, 1739, 1773, 1784, 1850, 1903.

Littoral rockpools and sublittoral 0-25 (-30) m depth.

Remarks: collected in January, February and May-September. Cystocarps and tetrasporangia in June-September. On rocks and epiphytic on *Corallina officinalis*, *Membranoptera alata* and on stipe of *Laminaria hyperborea*.

Ptilota serrata Kütz.

Ptilota pectinata (Gunnerus) Kjellm.

Reference: Wynne and Heine (1992).

Stations: 1004, 1006, 1008, 1009, 1011, 1012, 1013, 1015, 1017, 1018, 1021, 1022, 1023, 1027, 1028, 1029, 1030, 1111, 1142, 1192, 1235, 1276, 1277, 1283, 1284, 1285, 1286, 1292, 1293, 1294, 1295, 1296, 1298, 1299, 1300, 1301, 1341, 1365, 1366, 1372, 1373, 1374, 1378, 1379, 1380, 1382, 1496, 1527, 1530, 1710, 1711, 1715, 1716, 1719, 1724, 1725, 1726, 1734, 1735, 1736, 1737.

Littoral to 25 m depth.

Remarks: collected in January, February and May-September. Cystocarps and tetrasporangia in January, February, May-July and September. On rocks, barnacles, *Modiolus modiolus* and epiphytic on *Callophyllis laciniata*, *Mastocarpus stellatus*, *Phyllophora crispa*, stipe and holdfasts of *Laminaria hyperborea*.

Rhodochorton purpureum (Lightf.) Rosenv.

Audouinella purpurea (Lightf.) Woelk., *Rhodochorton rothii* (Turton) Nägeli.

References: Kormmann and Sahling (1977), Stegenga (1978).

Stations: 1008, 1011, 1021, 1022, 1023, 1027, 1032, 1034, 1035, 1040, 1046, 1048, 1116, 1119, 1120, 1126, 1127, 1128, 1130, 1137, 1273, 1279, 1285, 1293, 1297, 1347, 1349, 1350, 1357, 1364, 1371, 1376, 1379, 1682, 1684, 1686, 1689, 1694, 1716, 1718, 1724, 1737, 1756, 1768, 1771, 1774, 1775, 1780, 1781, 1783, 1785, 1851.

Littoral to 20 (-23) m depth.

Remarks: collected in January, February and April-October. Tetrasporangia in February, April, May and August. On rocks, epizoic on barnacles, *Patella vulgata* and epiphytic on *Cruoria pellita*, *Peyssonellia dubyi*, stipe of *Laminaria digitata*, stipe and holdfasts of *L. hyperborea*.

Rhodomela confervoides (Huds.) P.C.Silva

Rhodomela subfusca (Woodw.) C.Agardh.

Reference: Maggs and Hommersand (1993).

Stations: 1019, 1026, 1116, 1127, 1273, 1274, 1300, 1349, 1351, 1354, 1357, 1361, 1362, 1364, 1371, 1766, 1773.

Littoral to 20 m depth.

Remarks: collected in April-July and September. Spermatangia in May, cystocarps and tetrasporangia in May and July.

Rhodomela lycopodioides (L.) C.Agardh

Reference: Maggs and Hommersand (1993).

Stations: 1007, 1016, 1124, 1126, 1279, 1287, 1305, 1364, 1688, 1689, 1690, 1717, 1771, 1772, 1776.

Littoral to 1 (-5) m depth.

Remarks: collected in February, May-July, September and October. Cystocarps in May and June, tetrasporangia in July.

Rhodophysemia elegans (P.Crouan & H.Crouan ex

J.Agardh) P.S.Dixon

Rhododermis elegans P.Crouan & H.Crouan ex

J.Agardh.

Reference: Kornmann and Sahling (1977), Saunders *et al.* (1989).

Stations: 1041, 1126, 1127, 1273, 1279, 1298, 1301, 1716.

Littoral to 20 m depth.

Remarks: collected in February, June, July and September. Tetrasporangia throughout, bisporangia in June and September. On rocks and *Gibbula* sp.

* **Sahlingia subintegra** (Rosenv.) Kornmann

See Brodie *et al.* (2001).

Scagelia pylaisaei (Montagne) Wynne

Antithamnion plumula (Ellis) Thur. ex LeJol. var.

boreale Gobi f. *corallina* (Rupr.) Børgesen.

Reference: Athanasiadis (1996).

Stations: 1372, 1379, 1730, 1731.

Sublittoral 10-25 m depth.

Remarks: collected in May with tetrasporangia. Epiphytic on holdfasts of *Laminaria hyperborea*.

Scagelothamnion pusillum (Rupr.) Athanas.

Antithamnion boreale (Gobi) Kjellm., *Antithamnion*

plumula (J.Ellis) Thur. ex LeJol. var. *boreale* Gobi.

References: Athanasiadis (1996), Maggs and

Hommersand (1993, as *Scagelia pusilla* (Rupr.)

Athanas.).

Stations: 1119, 1301, 1360.

Sublittoral (3-) 5-20 m depth.

Remarks: collected in May-June and September.

Tetrasporangia in June. Epiphytic on *Polysiphonia fibrillosa*.

Stylonema alsidii (Zanardini) K.M.Drew

Goniotrichum alsidii (Zanardini) M.Howe.

See Brodie *et al.* (2001).

Titanoderma corallinae (P.Crouan & H.Crouan)

Woelk., Y.M.Chamb. & P.C.Silva

Dermatolithon corallinae (P.Crouan & H.Crouan)

Foslie, *Lithophyllum corallinae* (P.Crouan & H.Crouan) Heydr.

See Wegeberg *et al.* (2001).

Titanoderma laminariae (P.Crouan & H.Crouan)

Y.M.Chamb.

Dermatolithon macrocarpum (Roazanov) Foslie f.

laminariae (P.Crouan & H.Crouan) Foslie, *Melobesia laminariae* P.Crouan & H.Crouan.

See Wegeberg *et al.* (2001).

* **Titanoderma pustulatum** (J.V.Lamour.) Nägeli var.

confine (P.Crouan & H.Crouan) Y.M.Chamb.

See Wegeberg *et al.* (2001).

Titanoderma pustulatum (J.V.Lamour.) Nägeli var.

macrocarpa (Roazanov) Chamb.

Dermatolithon macrocarpum (Roazanov) Foslie,

Melobesia macrocarpa Roazanov.

See Wegeberg *et al.* (2001).

Titanoderma pustulatum (J.V.Lamour.) Nägeli var.

pustulatum

Dermatolithon macrocarpum (Roazanov) Foslie f.

faroensis Foslie.

See Wegeberg *et al.* (2001).

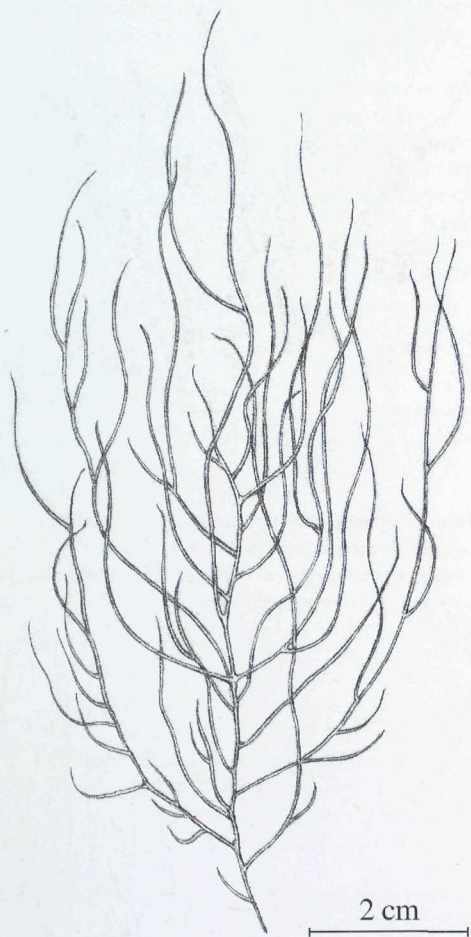


Fig. 23. *Acrothrix gracilis*. Scale bar 2 cm. Drawing Astrid Andreassen.

PHAEOPHYCEAE (FUCOPHYCEAE)

* *Acrothrix gracilis* Kylin (Fig. 23)

Reference: Kylin (1947).

Stations: 1042, 1043.

Sublittoral 0-2 m depth.

Remarks: collected in July with unilocular sporangia.

Alaria esculenta (L.) Grev. (Fig. 24)

Alaria pylaii (Bory) J. Agardh

References: Børgesen (1902; 1907), Rasmussen (1909).

Stations: 1003, 1005, 1019, 1020, 1028, 1033, 1034, 1038, 1044, 1045, 1049, 1110, 1111, 1121, 1124, 1126, 1127, 1142, 1174, 1175, 1184, 1187, 1278, 1280, 1281, 1284, 1285, 1287, 1305, 1347, 1348, 1349, 1351, 1352, 1353, 1354, 1358, 1361, 1362, 1363, 1371, 1375, 1376, 1380, 1381, 1382, 1496, 1683, 1688, 1689, 1690, 1691, 1692, 1693, 1696, 1697, 1699, 1702, 1717, 1720, 1721, 1722, 1723, 1726, 1727, 1729, 1733, 1737, 1738, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768,

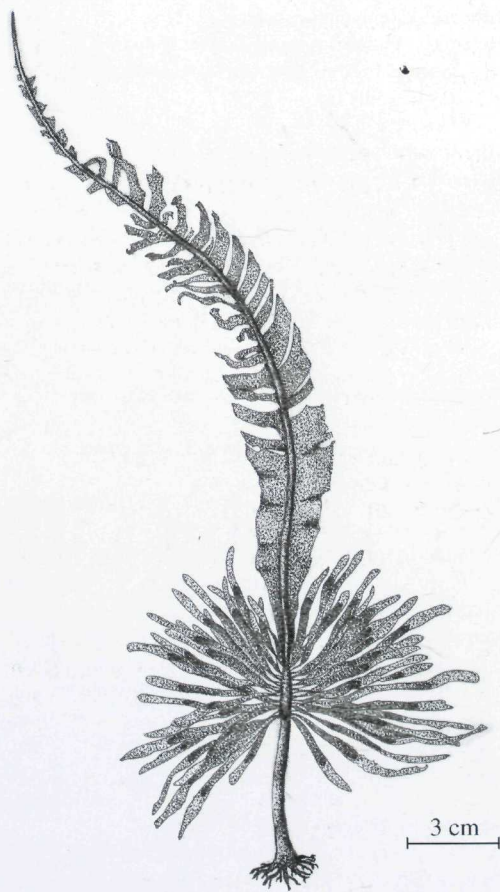


Fig. 24. *Alaria esculenta*. Scale bar 3 cm. Drawing Astrid Andreassen.

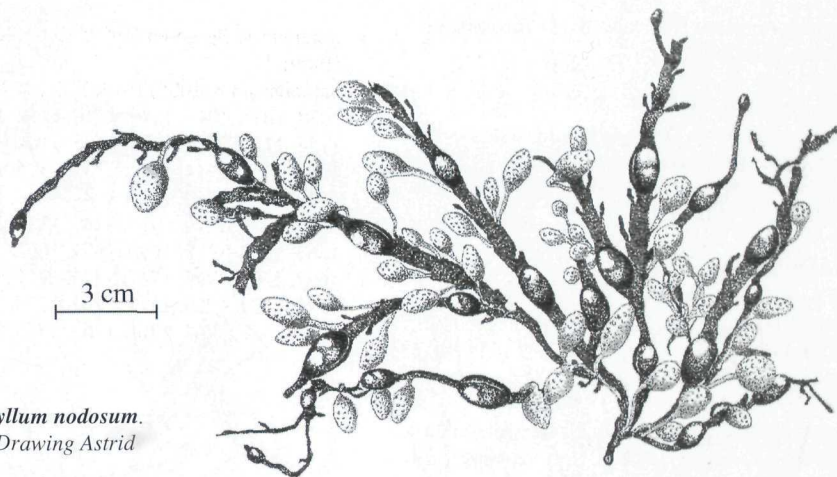


Fig. 25. *Ascophyllum nodosum*.
Scale bar 3 cm. Drawing Astrid
Andreasen.

1769, 1771, 1773, 1775, 1776, 1777, 1779, 1781,
1783, 1785, 1903, 1911, 1912, 1913.

Littoral to 20 m depth.

Remarks: collected in February and April-October.

Fertile in May and August-October. *Alaria pylaii* reported by Børgesen (1902) probably represent a sheltered-water growth-form of *A. esculenta* (Widdowson 1971). This is confirmed by examination of the Faroese specimen in referred to this species by Børgesen (1902).

***Ascophyllum nodosum* (L.) LeJol.** (Fig. 25)

Reference: Børgesen (1902).

Stations: 1001, 1101, 1110, 1113, 1120, 1126, 1137,
1142, 1183, 1272, 1282, 1297, 1305, 1349, 1357,
1358, 1363, 1364, 1682, 1684, 1686, 1687, 1709,
1717, 1756, 1851.

Littoral.

Remarks: collected in January, February and April-October. Receptacles in January, April-July and October.

***Asperococcus bullosus* J.V.Lamour.**

Asperococcus turneri (Sm. in Sm. & Sowerby) Hook.

Reference: Fletcher (1987).

Remarks: recorded by Irvine (1982).

***Asperococcus fistulosus* (Huds.) Hook.**

Asperococcus echinatus (Mert. in Roth) Grev.

Reference: Taylor (1957).

Stations: 1113, 1119, 1124, 1127, 1140, 1305, 1757.

Littoral rockpools and sublittoral 0-3 (-5) m depth.

Remarks: collected in May-July and September.

Unilocular sporangia throughout. On rocks and epiphytic on *Cladophora rupestris*.

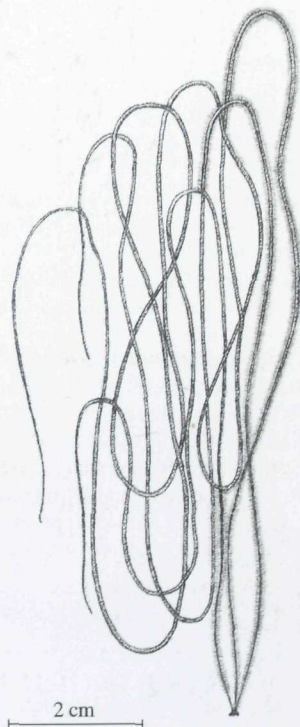


Fig. 26.
***Chorda filum*.**
Scale bar 2
cm. Drawing
Astrid
Andreasen.

Chilionema reptans (P.Crouan & H.Crouan) Sauv.

Reference: Fletcher (1987).

Station: 1690.

Littoral rockpools.

Remarks: collected in October. Epiphytic on *Laminaria hyperborea*. Recorded by Børgesen (1902, as *Chilionema* sp. and later identified as *C. reptans* (Børgesen 1905a, p. 783).**Chorda filum** (L.) Stackh. (Fig. 26)

Reference: Kornmann and Sahling (1977).

Stations: 1041, 1043, 1115, 1116, 1119, 1120, 1126, 1127, 1130, 1137, 1140, 1183, 1272, 1273, 1275, 1279, 1291, 1682, 1772.

Sublittoral 0-15 m depth.

Remarks: collected in June, July, September and October. Unilocular sporangia in June, September and October.

Chordaria flagelliformis (O.F.Müll.) C.Agardh (Fig. 27)

Reference: Stegenga and Mol (1983)

Stations: 1007, 1024, 1043, 1045, 1115, 1119, 1124, 1126, 1127, 1137, 1140, 1142, 1174, 1272, 1273, 1274, 1275, 1279, 1280, 1281, 1288, 1291, 1305, 1381, 1684, 1722, 1771.

Littoral to 5 (-10) m depth.

Remarks: collected in May-July, September and October. Unilocular sporangia in September and October.

Cladostephus spongiosus (Huds.) C.Agardh

Reference: Prud'homme van Reine (1982).

Stations: 1305, 1349, 1717.

Littoral on rocks and in rockpools.

Remarks: collected in February, April and September.

Cutleria multifida (Sm.) Grev.*Aglaozonia parvula* (Grev.) Zanardini

Reference: Fletcher (1987).

Stations: 1005, 1736, 1737.

Sublittoral 5-10 m depth.

Remarks: collected in June and July, only the crustose sporophytic phase. On pebbles and epiphytic on holdfasts of *Laminaria hyperborea*.**Desmarestia aculeata** (L.) J.V.Lamour.

Reference: Taylor (1957).

Stations: 1003, 1005, 1008, 1009, 1011, 1012, 1013, 1027, 1031, 1032, 1036, 1038, 1111, 1112, 1114,

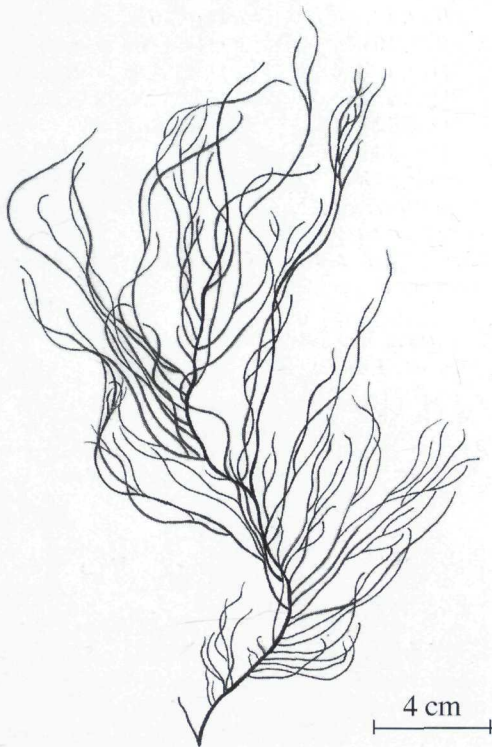


Fig. 27. *Chordaria flagelliformis*. Scale bar 4 cm.
Drawing Astrid Andreasen.

1116, 1117, 1118, 1119, 1128, 1130, 1132, 1134, 1140, 1146, 1196, 1228, 1229, 1231, 1233, 1234, 1278, 1283, 1285, 1341, 1360, 1372, 1373, 1381, 1496, 1530, 1712, 1715, 1716, 1726, 1736, 1737.

Sublittoral (3-) 5-20 (-22) m depth.

Remarks: collected in January, February and May-September.

Desmarestia ligulata (Lightf.) J.V.Lamour.

Reference: Rueness (1977).

Station: 1754.

Sublittoral 6 m depth.

Remarks: collected in July.

Desmarestia viridis (O.F.Müll.) J.V.Lamour.*Dichloria viridis* (O.F.Müll.) Grev.

Reference: Kornmann and Sahling (1977).

Stations: 1003, 1004, 1005, 1006, 1008, 1009, 1011,

1012, 1013, 1014, 1015, 1016, 1028, 1032, 1037, 1038, 1043, 1111, 1112, 1115, 1116, 1118, 1119, 1127, 1128, 1130, 1132, 1139, 1140, 1142, 1146, 1187, 1195, 1196, 1228, 1229, 1231, 1234, 1235, 1236, 1274, 1278, 1283, 1284, 1285, 1286, 1299, 1360, 1365, 1372, 1373, 1377, 1378, 1379, 1381, 1382, 1496, 1527, 1532, 1725, 1726, 1727, 1729, 1730, 1731, 1735, 1736, 1737, 1903.

Littoral to 25 (-30) m depth.

Remarks: collected in May-September. Unilocular sporangia in June and September.

Dictyosiphon ekmanii Aresch.

Reference: Rueness (1977).

Stations: 1115, 1137, 1275.

Sublittoral 0-1 m depth.

Remarks: collected in June and September. Unilocular sporangia in June. Epiphytic on *Scytosiphon lomentaria*.

Dictyosiphon foeniculaceus (Huds.) Grev.

Dictyosiphon hippuroides (Lyngb.) Kütz.

Reference: Taylor (1957).

Stations: 1007, 1024, 1043, 1045, 1115, 1120, 1121, 1126, 1127, 1137, 1140, 1272, 1273, 1275, 1279, 1771.

Littoral to 2 (-5) m depth.

Remarks: collected in June, July and September. Unilocular sporangia in July and September. On rocks and epiphytic on *Chordaria flagelliformis* and *Fucus vesiculosus*.

Ectocarpus fasciculatus Harv.

Reference: Cardinal (1964), Kornmann and Sahling (1977).

Stations: 1004, 1005, 1008, 1012, 1013, 1016, 1019, 1020, 1025, 1027, 1034, 1041, 1043, 1045, 1049, 1120, 1124, 1128, 1140, 1277, 1278, 1279, 1280, 1281, 1291, 1293, 1298, 1305, 1347, 1351, 1352, 1353, 1354, 1358, 1362, 1363, 1364, 1688, 1692, 1697, 1701, 1719, 1720, 1722, 1723, 1726, 1727, 1732, 1733, 1738, 1768, 1769, 1771, 1772, 1773, 1775, 1776, 1777, 1778, 1779, 1783, 1784, 1785, 1911, 1913, 1914.

Littoral to 15 m depth.

Remarks: collected in April-October. Plurilocular sporangia throughout and unilocular sporangia in May and July. On rocks, *Patella vulgata* and epiphytic on *Aglaothamnion sepositum*, *Corallina officinalis*, *Mastocarpus stellatus*, *Palmaria palmata*, *Alaria*

esculenta, *Chorda filum*, *Chordaria flagelliformis*, *Desmarestia aculeata*, *Himantalia elongata*, *Laminaria digitata*, *L. hyperborea*, *Petalonia fascia*, *Scytosiphon lomentaria* and *Cladophora rupestris*.

Ectocarpus siliculatus (Dillwyn) Lyngb.

Ectocarpus confervoides (Roth) Kjellm., *E. dasycarpus* Kuck., *E. hiemalis* P.Crouan & H.Crouan.

Reference: Cardinal (1964), Kornmann and Sahling (1977).

Stations: 1003, 1005, 1006, 1008, 1023, 1035, 1043, 1049, 1115, 1116, 1117, 1118, 1119, 1124, 1127, 1128, 1130, 1132, 1134, 1137, 1140, 1183, 1196, 1272, 1273, 1274, 1275, 1349, 1352, 1364, 1375, 1376, 1379, 1380, 1527, 1530, 1689, 1695, 1723, 1729, 1737, 1780, 1852.

Littoral to 20 (-22) m depth.

Remarks: collected in April-October. Plurilocular sporangia in May-October, unilocular sporangia in April-June. Epiphytic on *Chondrus crispus*, *Mastocarpus stellatus*, *Palmaria palmata*, *Polysiphonia* sp., *Rhodomela lycopodioides*, *Alaria esculenta*, *Desmarestia aculeata*, *Dictyosiphon foeniculaceus*, *Laminaria digitata*, *L. faeroensis*, *L. hyperborea*, *Scytosiphon lomentaria* and *Cladophora rupestris*.

Elachista fucicola (Velley) Aresch.

Reference: Kornmann and Sahling (1977).

Stations: 1001, 1024, 1033, 1034, 1045, 1047, 1110, 1115, 1120, 1121, 1142, 1174, 1183, 1187, 1272, 1275, 1279, 1282, 1288, 1289, 1297, 1306, 1348, 1349, 1353, 1355, 1358, 1364, 1371, 1380, 1682, 1684, 1685, 1686, 1687, 1697, 1717, 1719, 1720, 1723, 1732, 1738, 1768, 1769, 1771, 1772, 1781, 1782, 1783, 1784, 1850, 1853, 1911, 1912, 1913.

Littoral to 1 m depth.

Remarks: collected in February and April-October. Unilocular sporangia in February, May and July-October. Epiphytic on *Ascophyllum nodosum*, *Fucus distichus*, *F. evanescens*, *F. spiralis*, *F. vesiculosus* and *Cladophora rupestris*.

Elachista scutulata (Sm.) Duby

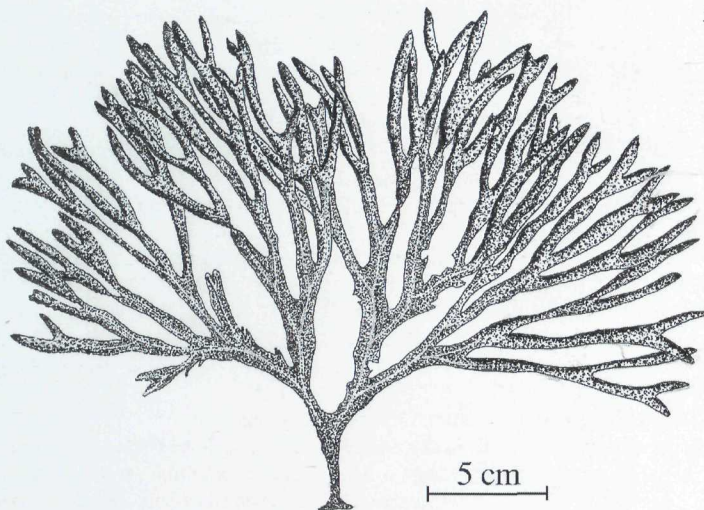
Reference: Fletcher (1987).

Remarks: recorded by Simmons (1897), Børgesen (1902) and Irvine (1982).

Eudesme virescens (Carmich. ex Berk.) J. Agardh

Castagnea virescens Sauv.

Reference: Kylin (1947).

Fig. 28. Fucus distichus. Scale bar 5 cm. Drawing Astrid Andreassen.

Stations: 1126, 1137, 1275.

Sublittoral 0-1 m depth.

Remarks: collected in June and September. Unilocular sporangia throughout. On rocks and epiphytic on *Ceramium pallidum*.

***Fucus distichus* L. (Fig. 28)**

Fucus distichus L. ssp. *anceps* (Harv. & Ward ex Carruthers) H.T.Powell, *F. distichus* L. ssp. *distichus* (L.) H.T.Powell, *F. inflatus* L., *F. inflatus* L. f. *distichus* (L.) Børgesen, *F. inflatus* L. f. *linearis* (Oed.) Børgesen.

Reference: Børgesen (1902).

Stations: 1016, 1033, 1121, 1357, 1358, 1363, 1689, 1690, 1720, 1723, 1732, 1769, 1775, 1783, 1784, 1911, 1913.

Littoral on rocks and in rockpools.

Remarks: collected in May-August with receptacles.

Species concept according to Rice and Chapman (1985).

***Fucus evanescens* C.Agardh**

Fucus distichus L. ssp. *edentatus* (Bach.Pyl.) H.T.Powell, *F. inflatus* L. f. *edentatus* (Bach.Pyl.) Rosenv.

Reference: Børgesen (1902).

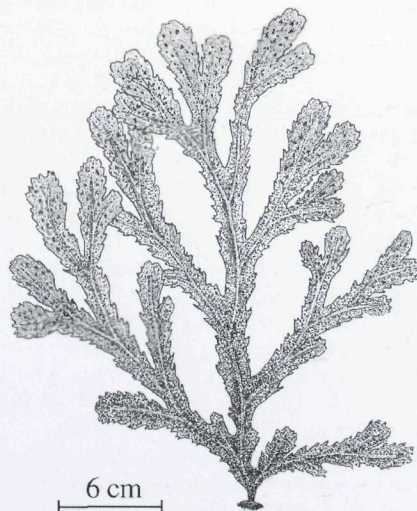
Stations: 1001, 1002, 1034, 1045, 1047, 1110, 1115, 1120, 1126, 1142, 1174, 1183, 1187, 1272, 1275, 1279, 1288, 1289, 1297, 1348, 1349, 1353, 1355, 1361, 1362, 1363, 1364, 1371, 1380, 1682, 1685,

1709, 1722, 1723, 1733, 1738, 1756, 1765, 1767, 1771, 1850, 1851.

Littoral to 1 m depth.

Remarks: collected in February and April-October.

Fertile in April-July. Species concept according to Rice and Chapman (1985).

*Fig. 29. Fucus serratus. Scale bar 6 cm. Drawing Astrid Andreassen.*

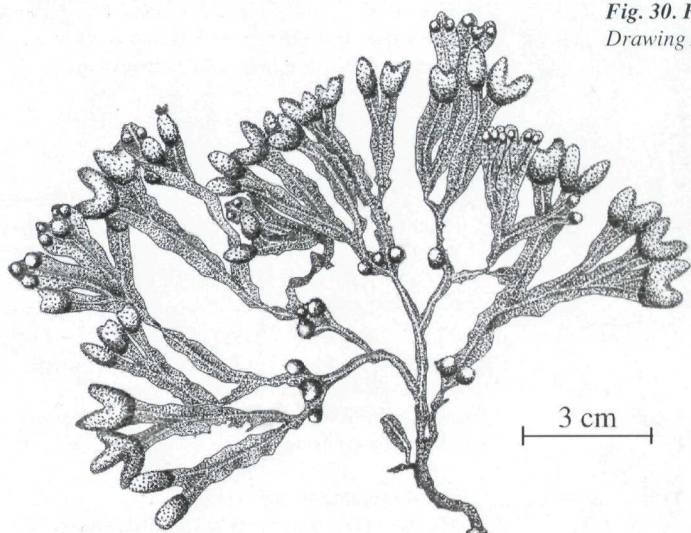


Fig. 30. *Fucus vesiculosus*. Scale bar 3 cm.
Drawing Astrid Andreassen.

* *Fucus serratus* L. (Fig. 29)

Reference: Kornmann and Sahling (1977).

Stations: 1756, 1851.

Littoral.

Remarks: collected in June and August. Receptacles in August. Reported by Bruntse *et al.* (1999a, b).

Fucus spiralis L.

Reference: Børgesen (1902).

Stations: 1001, 1016, 1024, 1033, 1034, 1043, 1045, 1047, 1048, 1115, 1120, 1126, 1279, 1280, 1281, 1282, 1288, 1289, 1297, 1306, 1349, 1355, 1357, 1358, 1363, 1371, 1380, 1682, 1684, 1686, 1687, 1688, 1689, 1696, 1697, 1717, 1719, 1720, 1723, 1732, 1738, 1739, 1756, 1761, 1764, 1765, 1767, 1768, 1769, 1771, 1775, 1777, 1781, 1851, 1912.

Littoral.

Remarks: collected in February and April-October. Receptacles throughout.

Fucus vesiculosus L. (Fig. 30)

Reference: Kornmann and Sahling (1977).

Stations: 1001, 1021 (drift), 1024, 1043, 1046, 1047, 1115, 1120, 1121, 1126, 1137, 1142, 1174, 1183, 1187, 1272, 1275, 1279, 1282, 1297, 1306, 1347, 1348, 1349, 1353, 1357, 1363, 1364, 1682, 1684, 1686, 1687, 1717, 1738, 1756, 1765, 1850, 1851.

Littoral.

Remarks: collected in January, February and April-October. Receptacles in April-September.

Gononema acidiodes

(Rosenv.) P.M.Pedersen

Myrionema acidiodides

(Rosenv.) Sauv.

Reference: Kylin (1947),

Pedersen (1981a).

Stations: 1110, 1111, 1273, 1682.

Littoral to 8 m depth.

Remarks: collected in May, September and October. Plurilocular sporangia in May and September, unilocular sporangia in September. Epiphytic on *Alaria esculenta*, *Fucus vesiculosus*, *Laminaria faeroense*, *L. hyperborea*.

Halosiphon tomentosus

(Lyngb.) Jaasund (Fig. 31)

Chorda tomentosa Lyngb.

Reference: Kornmann and Sahling (1977), see also Peters (1998).

Stations: 1003, 1005, 1111, 1726, 1727, 1729.

Sublittoral 5-15 m depth.

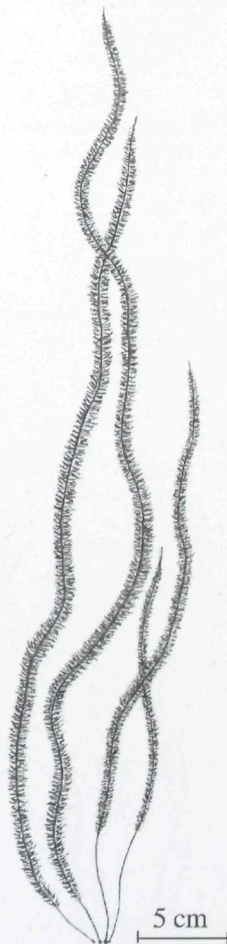


Fig. 31. *Halosiphon tomentosus*. Scale bar 5 cm.
Drawing Astrid Andreassen.

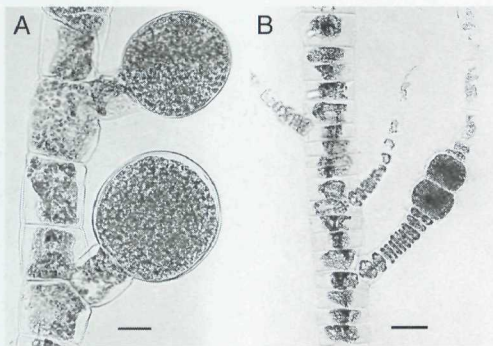


Fig. 32A. *Haplospora globosa* with monosporangia.
B. *Tilopteris mertensii* with monosporangia. Scale
bars A: 20 μ m, B: 40 μ m.

Remarks: collected in May and July. Unilocular sporangia in July.

* *Haplospora globosa* Kjellm. (Fig. 32A)
Reference: Kornmann and Sahling (1977).

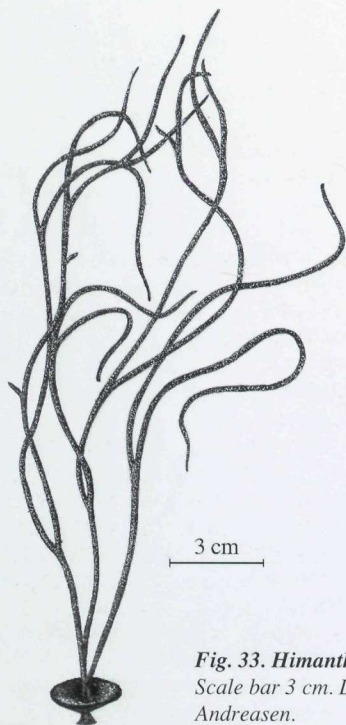


Fig. 33. *Himanthalia elongata*.
Scale bar 3 cm. Drawing Astrid
Andreasen.

Station: 1729.

Sublittoral 15 m depth.

Remarks: collected in May with monosporangia.

***Himanthalia elongata* (L.) Gray (Fig. 33)**

Himanthalia lorea (L.) Lyngb.

Reference: Kornmann and Sahling (1977).

Stations: 1016, 1035, 1110, 1113, 1124, 1175, 1187,
1280, 1305, 1347, 1349, 1351, 1352, 1353, 1354,
1358, 1363, 1683, 1688, 1689, 1690, 1691, 1692,
1693, 1700, 1701, 1702, 1703, 1717, 1719, 1722,
1723, 1732, 1733, 1738, 1739, 1759, 1760, 1761,
1762, 1766, 1767, 1768, 1769, 1773, 1774, 1775,
1776, 1783, 1784, 1912.

Littoral on rocks and in rockpools.

Remarks: collected in February and April-October.

Receptacles throughout.

***Hincksia granulosa* (Sm.) P.C.Silva**

Ectocarpus granulatus (Sm.) C.Agardh, *Giffordia granulosa* (Sm.) Hamel.

Reference: Cardinal (1964).

Stations: 1381.

Sublittoral 5 m depth.

Remarks: collected in May.

***Hincksia hincksiae* (Harv.) P.C.Silva**

Ectocarpus hincksiae Harv., *Giffordia hincksiae* (Harv.) Hamel.

Reference: Cardinal (1964), Kornmann and Sahling (1977).

Stations: 1008, 1049, 1114, 1130, 1278, 1351, 1352,
1354, 1363, 1375, 1376, 1381, 1686, 1726, 1727,
1775, 1911.

Littoral to 11 m depth.

Remarks: collected in May-October. Plurilocular sporangia in May and October and unilocular sporangia in May. Epiphytic on *Mastocarpus stellatus*, *Ptilota gunneri*, stipe of *Alaria esculenta*, *Desmarestia aculeata*, *Laminaria digitata* and *L. hyperborea*.

***Hincksia ovata* (Kjellm.) P.C.Silva**

Giffordia ovata (Kjellm.) Kylin.

Reference: Cardinal (1964), Kornmann and Sahling (1977).

Stations: 1003, 1006, 1116, 1117, 1118, 1119, 1128,
1381.

Sublittoral (3-) 5-20 m depth.

Remarks: collected in May-July. Plurilocular sporangia

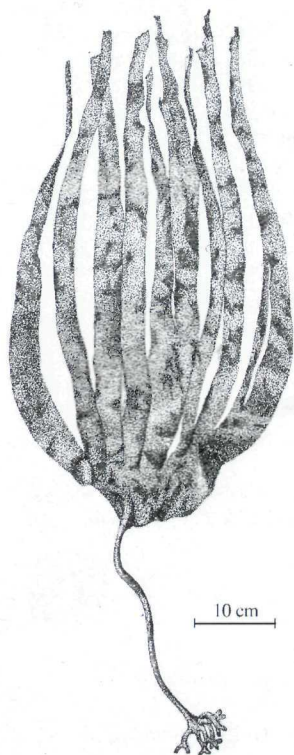


Fig. 34. *Laminaria digitata*. Scale bar 10 cm.
Drawing Astrid Andreassen.

in May-June, unilocular sporangia in May. Epiphytic on *Ceramium rubrum*, *Polysiphonia elongata*, *Desmarestia viridis* and epizoic on *Aporrháis pespelicani* (L.).

Isthmoplea sphaerophora (Carmich. ex Harv. in Hook.) Kjellm.

Reference: Kornmann and Sahling (1977).

Stations: 1113, 1124, 1137, 1349, 1351, 1352, 1353, 1354, 1357, 1363, 1364, 1376, 1719, 1732, 1768, 1769.

Littoral on rocks and in rockpools.

Remarks: collected in April-July with unilocular sporangia.

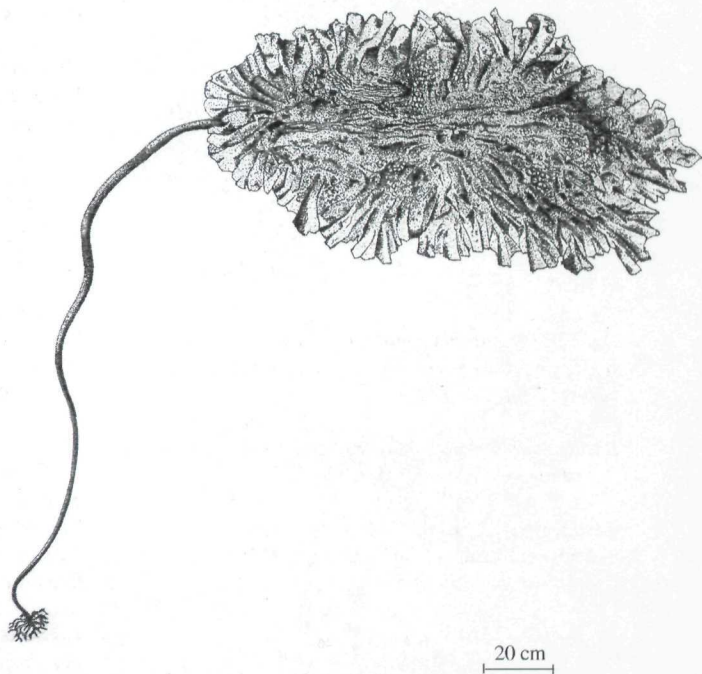


Fig. 35. *Laminaria faeroensis*. Scale bar 20 cm.
Drawing Astrid Andreassen.

Epiphytic on *Aglaothamnion sepositum*, *Mastocarpus stellatus*, *Palmaria palmata*, *Polysiphonia lanosa*, *Rhodomela confervoides*, *Alaria esculenta* and *Cladophora rupestris*.

Laminaria digitata (Huds.) J.V.Lamour. (Fig. 34)

Reference: Børgesen (1902).

Stations: 1009, 1034, 1110, 1116, 1117, 1174, 1175, 1184, 1280, 1281, 1289, 1347, 1348, 1349, 1351, 1352, 1353, 1354, 1358, 1363, 1364, 1682, 1684, 1686, 1688, 1692, 1693, 1695, 1696, 1697, 1720, 1721, 1723, 1726, 1738, 1739, 1756, 1759, 1760, 1763, 1764, 1765, 1766, 1768, 1771, 1773, 1776, 1777, 1779, 1781, 1783, 1784, 1850, 1851, 1913.

Littoral to 15 m depth.

Remarks: collected in April-October.

Laminaria faeroensis Børgesen (Fig. 35)*Laminaria longicurris* Bach.Pyl. var. *faeroensis*
Børgesen.

References: Børgesen (1896; 1902).

Stations: 1040, 1041, 1042, 1043, 1116, 1117, 1119,
1121, 1126, 1127, 1128, 1130, 1140, 1273.

Sublittoral 0-15 m depth.

Remarks: collected in June-July and September.

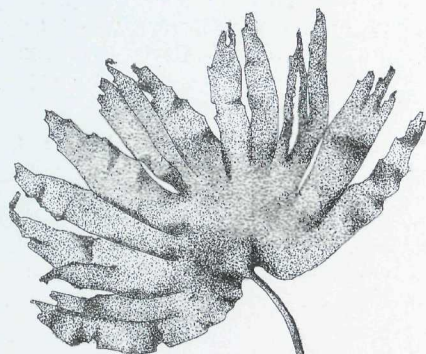


Fig. 36. *Laminaria hyperborea*. Scale bar 20 cm. Drawing Astrid Andreasen.

20 cm

Laminaria hyperborea (Gunnerus) Foslie (Fig.36)

Reference: Rueness (1998).

Stations: 1008, 1011, 1013, 1014, 1015, 1016, 1017,
1018, 1019, 1021, 1022, 1023, 1029, 1030, 1031,1032, 1038, 1110, 1111, 1112, 1114, 1116, 1118,
1119, 1126, 1127, 1140, 1142, 1187, 1191, 1192,
1233, 1276, 1277, 1278, 1283, 1284, 1285, 1293,
1294, 1295, 1296, 1298, 1299, 1300, 1301, 1351,
1359, 1360, 1362, 1363, 1364, 1365, 1366, 1372,
1373, 1377, 1378, 1379, 1382, 1496, 1530, 1532,
1690, 1691, 1692, 1701, 1710, 1711, 1712, 1716,
1717, 1719, 1720, 1725, 1726, 1727, 1730, 1731,
1736, 1737, 1738, 1739, 1759, 1760, 1762, 1763,
1764, 1783, 1912, 1914.

Sublittoral 0-25 (-30) m depth.

Remarks: collected in February and April-October.

Laminaria saccharina (L.) J.V.Lamour. (Fig. 37)References: Børgesen (1902), Kornmann and Sahling
(1977).Stations: 1016, 1019, 1021, 1022, 1028, 1043, 1045,
1110, 1114, 1117, 1121, 1175, 1273, 1284, 1298,
1300, 1301, 1305, 1341, 1348, 1349, 1353, 1357,
1363, 1364, 1380, 1382, 1527, 1532, 1711, 1716,
1736, 1762, 1778, 1851.

Littoral to 20 m depth.

Remarks: collected in January-February and April-
September.**Laminariocolax tomentosoides** (Farl.) Kylin*Ectocarpus tomentosoides* Farl.

Reference: Cardinal (1964).

Station: 1364.

Littoral.

Remarks: collected in May with plurilocular sporangia.

Leathesia difformis (L.) Aresch.

Reference: Fletcher (1987).

Stations: 1124, 1305, 1757.

Littoral.

Remarks: collected in June, July and September. On
rocks and epiphytic on *Cystoclonium purpureum*,
Asperococcus fistulosus and *Cladophora rupestris*.**Leptonematella fasciculata** (Reinke) P.C.Silva*Leptonema fasciculatum* Reinke.

References: Fletcher (1987), Pedersen (1978).

Stations: 1006, 1116, 1117, 1119, 1128, 1377, 1724.
Sublittoral (3-) 5-25 (-30) m depth.Remarks: collected in May-July with plurilocular
sporangia. Epiphytic on *Ptilota gunneri*, *Desmarestia
aculeata*, *D. viridis*, *Laminaria* sp. *Ulvaria fusca* and
epizoic on *Modiolus modiolus*.

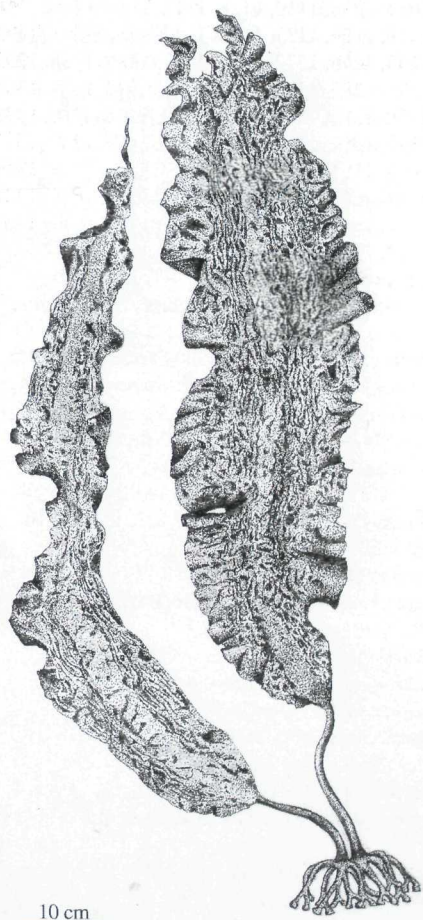


Fig. 37. *Laminaria saccharina*. Scale bar 10 cm.
Drawing Astrid Andreasen.

Litosiphon laminariae (Lyngb.) Harv.

Reference: Fletcher (1987).

Stations: 1034, 1045, 1121, 1278, 1287, 1351, 1722, 1733, 1738, 1771, 1776, 1777.

Littoral to (0-5) m depth.

Remarks: collected in May-July and September.

Plurilocular sporangia in May-July, unilocular sporangia in July and September. Epiphytic on *Alaria esculenta*, *Laminaria* sp. and *Scytosiphon lomentaria*.

Microspongium globosum Reinke

Myrionema globosum (Reinke) Foslie.

Reference: Fletcher (1987).

Station: 1738.

Littoral.

Remarks: collected in June with uniseriate plurilocular sporangia. Epiphytic on *Palmaria palmata*.

Mikrosyphar polysiphoniae Kuck.

Reference: Kylin (1947).

Stations: 1111, 1127, 1132, 1354, 1376, 1683, 1684, 1685, 1686, 1687, 1689, 1690, 1696, 1697, 1699, 1701, 1717, 1768, 1773, 1779, 1783, 1784, 1785.

Littoral to 15 (-22) m depth.

Remarks: collected in February, May-August and October. Plurilocular sporangia in May-August and October. Epiphytic on *Aglaothamnion sepositum*, *Ceramium rubrum*, *Palmaria palmata*, *Polysiphonia fucoides* P. *stricta*, *Chaetomorpha linum*, *Cladophora rupestris* and *Enteromorpha intestinalis*.

Mikrosyphar zosteræ Kuck.

Remarks: recorded as epiphyte on *Zostera marina* L. by Børgesen (1902).

Myrionema cf. corunnae Sauv.

Reference: Fletcher (1987).

Station: 1351.

Littoral.

Remarks: collected in May with plurilocular sporangia. Epiphytic on *Alaria esculenta*.

Myrionema foecundum (Strömf.) Sauv.

Hecatonema foecundum (Strömf.) Loiseaux

Remarks: recorded by Børgesen (1902) and Irvine (1982).

Myrionema strangulans Grev.

Myrionema vulgare Thur.

Reference: Fletcher (1987).

Stations: 1041, 1043, 1120, 1126, 1127, 1140, 1275, 1283, 1352, 1757, 1771, 1777.

Littoral to 15 m depth.

Remarks: collected in May-July and September.

Plurilocular sporangia in May and July, unilocular sporangia in June and July. Epiphytic on *Palmaria palmata*, *Porphyra dioica*, *Alaria esculenta*, *Enteromorpha intestinalis*, *Ulva lactuca* and *Ulvaria fusca*.

Myriotrichia clavaeformis Harv.

Reference: Fletcher (1987).

Stations: 1043, 1115, 1116, 1127, 1275.

Littoral to 5 m depth.

Remarks: collected in June, July and September.

Plurilocular sporangia in June and September. Epiphytic on *Ceramium rubrum*, *Dictyosiphon foeniculaceus*, *Hincksia ovata* and *Scytosiphon lomentaria*.**Pelvetia canaliculata** (L.) Decne. & Thur.

Reference: Rueness (1998).

Stations: 1001, 1137, 1183, 1272, 1288, 1289, 1297, 1349, 1358, 1363, 1682, 1684, 1686, 1687, 1697, 1717, 1756, 1851.

Littoral.

Remarks: collected in January-February and April-October. Receptacles throughout.

Petalonia fascia (O.F.Müll.) Kuntze*Phyllitis fascia* (O.F.Müll.) Kütz.

Reference: Stegenga and Mol (1983).

Stations: 1007, 1016, 1035, 1043, 1045, 1049, 1110, 1124, 1126, 1142, 1272, 1279, 1288, 1305, 1347, 1348, 1351, 1352, 1353, 1354, 1358, 1362, 1363, 1371, 1375, 1376, 1380, 1689, 1692, 1719, 1720, 1721, 1722, 1732, 1739, 1759, 1761, 1762, 1768, 1769, 1771, 1775, 1777, 1783, 1852, 1914.

Littoral.

Remarks: collected in April-October with plurilocular sporangia. On rocks, barnacles and epiphytic on *Chondrus crispus*, *Furcellaria lumbricalis* and *Mastocarpus stellatus*.**Petalonia zosterifolia** (Reinke) Kuntze*Phyllitis zosterifolius* Reinke.

Reference: Stegenga and Mol (1983).

Stations: 1363, 1376, 1777.

Littoral.

Remarks: collected in May and July. Plurilocular sporangia in July. On rocks and *Patella vulgata*.**Petroderma maculiforme** (Wollny) Kuck.Reference: Wilce *et al.* (1970).

Stations: 1008, 1012, 1013, 1022, 1025, 1032, 1045, 1046, 1048, 1115, 1126, 1134, 1139, 1140, 1272, 1273, 1275, 1278, 1279, 1281, 1289, 1297, 1349, 1353, 1366, 1374, 1377, 1682, 1711, 1715, 1717, 1719, 1722, 1724, 1738, 1777, 1784, 1851, 1852, 1913.

Littoral to 25 (-30) m depth.

Remarks: collected in January-February and April-October. Unilocular sporangia in February and May-September. On pebbles, rocks, barnacles, *Nucella lapillus* (L.), *Modiolus modiolus*, *Patella vulgata* and epiphytic on *Chondrus crispus*.**Phaeostroma parasiticum** Børgesen

Remarks: recorded by Børgesen (1902).

Pilinia rimosa Kütz.*Waerniella lucifuga* (Kuck.) Kylin.

Reference: Kylin (1947).

Stations: 1126, 1137, 1279, 1688, 1690, 1720, 1774.

Littoral.

Remarks: collected in May-July and September-October. Plurilocular sporangia in May and June, unilocular sporangia in October.

Pleurocladia lacustris A. Braun*Pilinia maritima* (Kjellm.) Rosenv.

Reference: Wilce (1966).

Remarks: recorded by Børgesen (1902).

Pleurocladia lucifuga (Kuck.) R.T. Wilce*Ectocarpus lucifugus* Kuck.

Reference: Wilce (1966).

Remarks: recorded by Børgesen (1902).

Pogotrichum filiforme Reinke*Litosiphon filiformis* (Reinke) Batters.

Reference: Pedersen (1978).

Stations: 1305, 1353, 1362, 1757.

Littoral.

Remarks: collected in May, July and September.

Plurilocular sporangia in May and unilocular sporangia in September. Epiphytic on *Alaria esculenta*, *Asperococcus fistulosus* and *Laminaria hyperborea*.**Protectocarpus faeroensis** (Børgesen) Kornmann in Kuck.*Myrionema faeroense* Børgesen.

References: Børgesen (1902), Kuckuck (1955).

Station: 1695.

Littoral.

Remarks: collected in October with plurilocular sporangia. Epiphytic on *Palmaria palmata*.

Protectocarpus speciosus (Børgesen) Kornmann in Kuck.

Myrionema speciosum Børgesen.

References: Børgesen (1902), Kuckuck (1955).

Stations: 1111, 1118, 1124, 1126, 1140, 1273, 1278, 1305, 1376, 1380, 1381, 1382, 1686, 1727, 1757.

Littoral to 15 m depth.

Remarks: collected in May-July, September and October. Plurilocular sporangia throughout, unilocular sporangia in June. Epiphytic on *Cystoclonium purpureum*, *Mastocarpus stellatus*, *Palmaria palmata*, *Desmarestia aculeata*, *Laminaria hyperborea* and *Cladophora rupestris*.

Pseudolithoderma extensum (P.Crouan & H.Crouan)

S.Lund

Lithoderma fatiscens sensu Kuck.

Reference: Fletcher (1987).

Stations: 1011, 1012, 1013, 1027, 1040, 1128, 1273, 1274, 1276, 1279, 1284, 1294, 1296, 1298, 1301, 1710.

Littoral to 25 m depth.

Remarks: collected in February, June, July and September. Plurilocular sporangia in February. On pebbles, rocks and *Modiolus modiolus*.

Punctaria latifolia Grev.

Reference: Fletcher (1987).

Stations: 1043, 1349, 1352, 1757, 1771.

Littoral on rocks and in rockpools.

Remarks: collected in April, May and July. Plurilocular sporangia in July. Epiphytic on *Ceramium rubrum*, *Cystoclonium purpureum* and *Cladophora rupestris*.

Punctaria plantaginea (Roth) Grev.

Reference: Fletcher (1987).

Stations: 1126, 1127, 1128.

Littoral to 10 m depth.

Remarks: collected in June with unilocular sporangia.

Punctaria tenuissima (J.Agardh) Grev.

Desmotrichum undulatum (J.Agardh) Reinke.

Reference: Fletcher (1987).

Stations: 1119, 1137.

Littoral to 3 (-5) m depth.

Remarks: collected in June with plurilocular sporangia.

Pylaiella littoralis (L.) Kjellm.

Pilayella littoralis (L.) Kjellm.

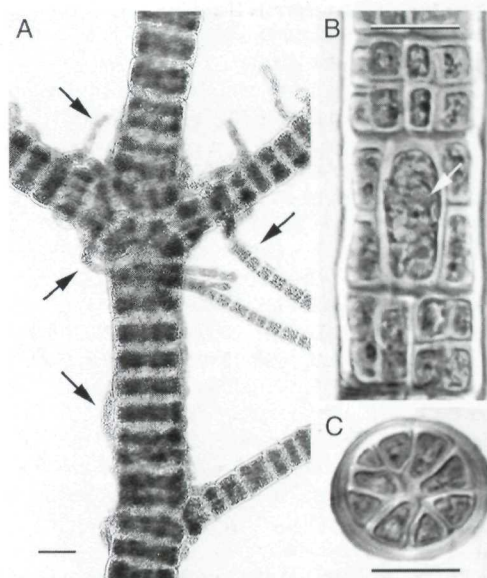


Fig. 38A. *Sphacelaria arctica* with rhizoids (arrows). B, C. *S. radicans*. B. Branch with a pericyst (arrow). C. Section of branch. Scale bars A: 50 μ m, B, C: 20 μ m.

References: Kornmann and Sahling (1977), Siemer and Pedersen (1995).

Stations: 1001, 1016, 1033, 1043, 1047, 1113, 1115, 1116, 1118, 1119, 1120, 1121, 1124, 1126, 1127, 1130, 1137, 1140, 1142, 1183, 1272, 1275, 1279, 1282, 1297, 1306, 1349, 1355, 1357, 1363, 1364, 1371, 1382, 1682, 1684, 1686, 1687, 1694, 1781, 1851, 1853.

Littoral to 10 (-15) m depth.

Remarks: collected in April-October. Plurilocular sporangia in April-August and October, unilocular sporangia in April and October. On rocks and epiphytic on *Ceramium rubrum*, *Chondrus crispus*, *Mastocarpus stellatus*, *Palmaria palmata*, *Prilota gunneri*, *Ascophyllum nodosum*, *Chorda filum*, *Desmarestia viridis*, *Fucus evanescens*, *F. spiralis*, *F. vesiculosus*, *Cladophora rupestris* and epizoic on the siphon of *Mya truncata*. The name *Pylaiella littoralis* was proposed for conservation by Silva *et al.* (1999).

Ralfsia verrucosa (Aresch.) Aresch. in Fries

Reference: Fletcher (1987).

Stations: 1127, 1140, 1279, 1363.

Littoral to 2 (-5) m depth.

Remarks: collected in May, June and September.

Unilocular sporangia in May.

Scytosiphon lomentaria (Lyngb.) Link

Reference: Taylor (1957)

Stations: 1001, 1007, 1016, 1034, 1035, 1043, 1045, 1049, 1110, 1115, 1120, 1121, 1124, 1126, 1127, 1137, 1140, 1142, 1175, 1272, 1274, 1275, 1279, 1288, 1291, 1305, 1347, 1348, 1349, 1351, 1352, 1353, 1358, 1363, 1364, 1371, 1376, 1380, 1719, 1721, 1723, 1732, 1738, 1759, 1761, 1769, 1771, 1775, 1776, 1779, 1780, 1783, 1785, 1852, 1911, 1912, 1913, 1914.

Littoral to 5 (-10) m depth.

Remarks: collected in April-September. Plurilocular sporangia in May, June, August and September. On rocks and barnacles.

Sorapion kjellmanii (Wille) Rosenv.

Reference: Lund (1959), Pedersen (1981b).

Station: 1684.

Littoral.

Remarks: collected in October.

* **Sphacelaria arctica** Harv. (Fig. 38A)

Reference: Prud'homme van Reine (1982).

Station: 1116.

Sublittoral 5 m depth.

Remarks: collected in June.

Sphacelaria caespitula Lyngb.

Reference: Prud'homme van Reine (1982).

Stations: 1017, 1037, 1359, 1360, 1365, 1716, 1724, 1731.

Sublittoral (2-) 7-25 m depth.

Remarks: collected in February, May and July. Unilocular sporangia and empty plurilocular sporangia in May. On rocks, mollusc shells and epiphytic on *Callophyllis laciniata* and holdfasts of *Laminaria hyperborea*.

Sphacelaria cirrosa (Roth) C. Agardh

Reference: Prud'homme van Reine (1982).

Stations: 1305, 1733, 1739, 1851.

Littoral on rocks and in rockpools.

Remarks: collected in May, June and August-September. Propagula throughout. On rocks and epiphytic

on *Cladophora rupestris*.

Sphacelaria nana Nägeli ex Kütz.

Sphacelaria britannica Sauv.

Reference: Prud'homme van Reine (1982).

Stations: 1682, 1756.

Littoral.

Remarks: collected in June and October. Empty unilocular sporangia in October.

Sphacelaria plumosa Lyngb.

Chaetopteris plumosa (Lyngb.) Kütz.

Reference: Prud'homme van Reine (1982).

Remarks: recorded by Børgeesen and Jónsson (1905) and Irvine (1982).

* **Sphacelaria radicans** (Dillwyn) C. Agardh (Fig. 38B, C)

Reference: Prud'homme van Reine (1982).

Stations: 1116, 1126, 1279, 1300, 1305, 1349, 1364, 1380, 1717, 1722, 1771, 1851.

Littoral on rocks and in rockpools and sublittoral 0-15 m depth.

Remarks: collected in February and April-September. Plurilocular sporangia in June and July, unilocular sporangia in February. On rocks and epiphytic on *Corallina officinalis*.

Sphacelaria rigidula Kütz.

Sphacelaria furcigera Kütz.

Reference: Prud'homme van Reine (1982).

Stations: 1285, 1293, 1379.

Sublittoral 5-10 m depth.

Remarks: collected in May and September. Propagula in September. Epiphytic on stipes and holdfasts of *Laminaria hyperborea* and on barnacles.

Spongonema tomentosum (Huds.) Kütz.

Ectocarpus tomentosus (Huds.) Lyngb.

Reference: Cardinal (1964), Kornmann and Sahling (1977).

Stations: 1110, 1120, 1124, 1349, 1353, 1354, 1355, 1361, 1363, 1376, 1380, 1723, 1738, 1768, 1771, 1779, 1784, 1911.

Littoral to 1 m depth.

Remarks: collected in April, May, July and August. Plurilocular sporangia throughout. Epiphytic on *Mastocarpus stellatus*, stipe of *Alaria esculenta*, *Fucus distichus*, *F. evanescens*, *F. spiralis*, *F. vesiculosus* and *Himantalia elongata*.

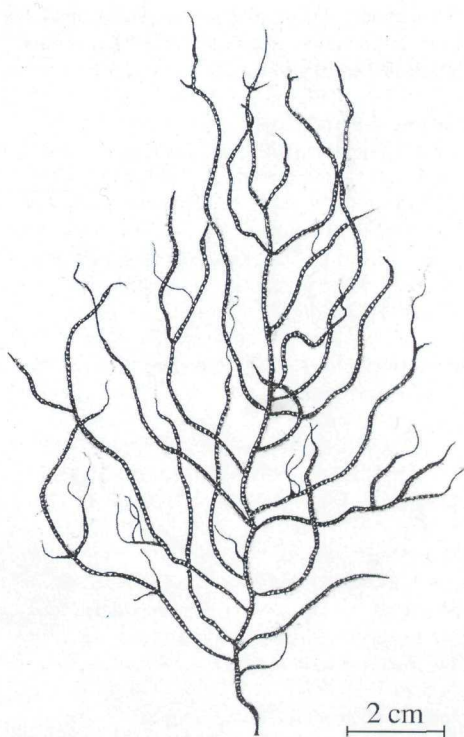


Fig. 39. *Striaria attenuata*. Scale bar 2 cm. Drawing Astrid Andreasen.

Stictyosiphon griffithsianus (Le.Jol.) Holmes & Batters

Reference: Newton (1931, as *Phloeospora brachiata* Bornet).

Stations: 1174, 1782.

Littoral.

Remarks: collected in July and August. Epiphytic on *Palmaria palmata*.

Stictyosiphon tortilis (Rupr.) Reinke sensu Rosenv.

Reference: Rueness (1977).

Station: 1119.

Sublittoral (3-5) m.

Remarks: collected in June with plurilocular sporangia

Stragularia clavata (Harv. in Hook.) Hamel

Ralfsia clavata (Harv. in Hook.) P.Crouan &

H.Crouan.

Reference: Fletcher (1987).

Stations: 1272, 1279, 1366, 1733, 1739, 1852.

Littoral to 15 (-20) m.

Remarks: collected in May, June, August and September. Unilocular sporangia throughout. On pebbles, *Gibbula* sp. and *Patella vulgata*.

Streblonema stilophorae (P.Crouan & H.Crouan)

A.Hamel

Ectocarpus stilophorae P.Crouan & H.Crouan.

Remarks: recorded by Børgesen (1902).

* ***Striaria attenuata*** (Grev.) Grev. (Fig. 39)

Reference: Rueness (1977).

Stations: 1019, 1116, 1118, 1119, 1127, 1130.

Sublittoral (2-) 5-10 m depth.

Remarks: collected in June-July with unilocular sporangia.

* ***Symphycarpus strangulans*** Rosenv.

Reference: Fletcher (1987).

Stations: 1298, 1781.

Littoral to 5 m depth.

Remarks: collected in August and September with plurilocular sporangia. On pebbles and epizoic on *Gibbula* sp.

* ***Tilopteris mertensii*** (Turner in Sm.) Kütz. (Fig. 32B)

Reference: Kornmann and Sahling (1977).

Station: 1116.

Sublittoral 5 m depth.

Remarks: collected in June with monosporangia.

Ulonema rhizophorum Foslie

Reference: Fletcher (1987).

Recorded by Irvine (1982).

XANTOPHYCEAE (TRIBOPHYCEAE)

Vaucheria coronata Nordst.

References: Christensen (1987; 1996).

Station: 1915.

Littoral.

Remarks: collected in August with spermatangia and oogonia.

Vaucheria dillwynii (F.Weber & D.Mohr) C.Agardh

References: Christensen (1996), Rieth (1980, as *V.*

pachyderma Walz).

Station: 1350.

Littoral.

Remarks: collected in May with spermatangia and oogonia.

Vaucheria medusa T.A.Chr.

References: Christensen (1987; 1996).

Station: 1915.

Littoral.

Remarks: collected in August with spermatangia and oogonia.

* **Vaucheria subsimplex** P.Crouan & H.Crouan

Reference: Christensen (1987).

Station: 1380.

Littoral.

Remarks: collected in May with spermatangia and oogonia.

CHLOROPHYCEAE

* **Acrochaete heteroclada** J.A.Correa & R.Nielsen

Reference: Correa *et al.* (1988).

Station: 1272, 1686.

Littoral.

Remarks: collected in October. Epi-endophytic on *Chondrus crispus*. The identity confirmed by culture studies.

* **Acrochaete operculata** J.A.Correa & R.Nielsen

(Fig. 40)

Reference: Correa *et al.* (1988).

Stations: 1045, 1272, 1347, 1349, 1682.

Sublittoral 0-1 m depth.

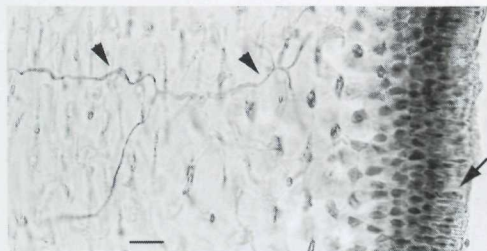


Fig. 40. *Acrochaete operculata* endophytic in *Chondrus crispus*. Filaments in medullary tissue of *C. crispus* (arrow heads) and sporangium in cortex (arrow). Scale bar 20 μ m.

Remarks: collected in April, July, September and October. Sporangia in April and September. Endophytic in *Chondrus crispus*.

Acrochaete repens Pringsh.

References: Nielsen (1979), Rueness (1977).

Stations: 1043, 1115, 1120, 1124, 1175, 1272, 1273, 1275, 1279, 1682.

Littoral to 2 (-6) m depth.

Remarks: collected in June-October. Sporangia in September. Endophytic in *Alaria esculenta*, *Chorda filum* and *Fucus vesiculosus*.

Acrochaete viridis (Reinke) R.Nielsen

Entocladia viridis Reinke.

Reference: Nielsen (1979).

Stations: 1006, 1008, 1027, 1116, 1128, 1132, 1134, 1273, 1277, 1286, 1293, 1294, 1295, 1296, 1298, 1299, 1300, 1364, 1686, 1690, 1692, 1710, 1711, 1714.

Sublittoral 0-25 m depth.

Remarks: collected in February and May-October.

Sporangia in May-October. Endophytic in *Phycodrys rubens*, *Rhodomela confervoides*, *R. lycopodioides*, *Laminaria digitata*, and *Chaetomorpha* sp.

Acrochaete wittrockii (Wille) R.Nielsen

Endoderma wittrockii (Wille) Lagerh., *Phaeophila wittrockii* (Wille) R.Nielsen.

Reference: Kornmann (1993).

Stations: 1116, 1117, 1120, 1282, 1288, 1686, 1687, 1717, 1851, 1853.

Littoral to 15 m depth.

Remarks: collected in February, June and August-October. Sporangia in June and September. Endophytic in cell wall of *Ectocarpus siliculosus*, *Elachista fucicola* and *Pylaiella littoralis*.

Acrosiphonia arcta (Dillwyn) Gain (Fig. 41)

Acrosiphonia albescens Kjellm., *A. binderi* (Kütz.) Kjellm., *A. flagellata* Kjellm., *A. incurva* Kjellm., *Spongomorpha arcta* (Dillwyn) Kütz.

References: Kornmann (1962b), Rueness (1998).

Stations: 1001, 1016, 1017, 1018, 1019, 1020, 1024, 1033, 1034, 1035, 1038, 1043, 1045, 1049, 1110, 1115, 1116, 1119, 1120, 1124, 1126, 1127, 1137, 1140, 1142, 1174, 1175, 1183, 1184, 1187, 1272, 1273, 1274, 1275, 1278, 1280, 1281, 1283, 1288, 1291, 1305, 1347, 1349, 1351, 1352, 1353, 1354, 1357, 1358, 1359, 1362, 1363, 1364, 1371, 1375,

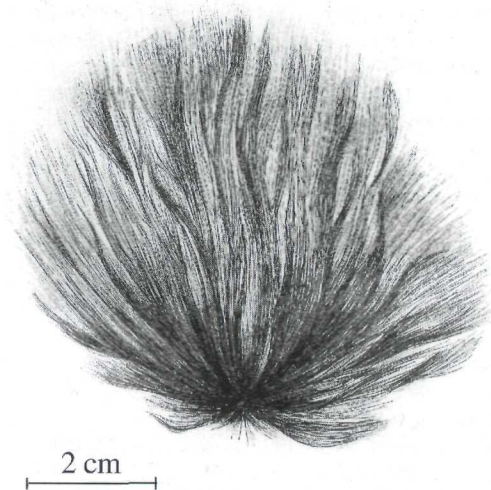


Fig. 41. *Acrosiphonia arcta*. Scale bar 2 cm. Drawing Astrid Andreassen.

1376, 1380, 1381, 1382, 1530, 1683, 1685, 1687, 1689, 1690, 1691, 1692, 1693, 1695, 1696, 1700, 1701, 1717, 1719, 1720, 1721, 1723, 1726, 1729, 1732, 1735, 1738, 1739, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1781, 1783, 1784, 1785, 1850, 1851, 1852, 1911, 1912, 1913, 1914.

Littoral to 25 m depth.

Remarks: collected in February and April-October. Sporangia in May-September.

Acrosiphonia sonderi (Kütz.) Kornmann
Acrosiphonia flaccida Kjellm., *A. hystris* (Strömf.) Børgesen, *Spongomorpha sonderi* Kütz.
Reference: Kornmann 1962b.
Stations: 1002, 1045, 1137, 1363, 1376.
Littoral to 1 m depth.
Remarks: collected in May-July.

Blidingia minima (Nägeli ex Kütz.) Kylin
Enteromorpha intestinalis (L.) Nees. var. *micrococca* (Kütz.) Rosenv., *E. intestinalis* var. *minima* (Nägeli) Rosenv., *E. saxicola* Simmons.
Reference: Kornmann and Sahling (1977).
Stations: 1016, 1024, 1035, 1043, 1044, 1045, 1047, 1048, 1049, 1050, 1110, 1115, 1120, 1121, 1126,

1272, 1279, 1280, 1288, 1289, 1297, 1305, 1306, 1347, 1349, 1350, 1352, 1353, 1354, 1355, 1357, 1358, 1363, 1371, 1376, 1380, 1683, 1684, 1685, 1687, 1688, 1689, 1690, 1692, 1696, 1697, 1719, 1720, 1732, 1768, 1769, 1771, 1773, 1774, 1775, 1776, 1777, 1779, 1780, 1781, 1783, 1784, 1785, 1850, 1911, 1913.

Littoral.

Remarks: collected in April-October. Sporangia in June, September and October.

Bolbocoleon piliferum Pringsh.

References: Nielsen (1979), Ruess (1977).
Stations: 1019, 1041, 1043, 1115, 1116, 1119, 1127, 1137, 1275, 1305, 1757, 1776.
Sublittoral 0-15 m depth.

Remarks: collected in June, July and September. Sporangia in July and September. Epiphytic on *Ceramium rubrum*, *Asperococcus fistulosus*, *Chorda filum*, *Dictyosiphon ekmanii*, *D. foeniculaceus*, *Laminaria faeroensis*, *L. hyperborea*, *Leathesia difformis*, *Myrionema strangulans*, *Scytosiphon lomentaria* and *Striaria attenuata*.

Bryopsis plumosa (Huds.) C. Agardh

Reference: Taylor (1957), Stegenga and Mol (1983).
Stations: 1347, 1349, 1359, 1381, 1739.
Littoral rockpools and sublittoral 0-10 m depth.
Remarks: collected in April-June.

Capsosiphon fulvescens (C. Agardh) Setch. & N.L. Gardner

Reference: Kornmann and Sahling (1977).
Station: 1915.
Littoral.
Remarks: collected in August.

Chaetomorpha ligustica (Kütz.) Kütz.

Chaetomorpha capillaris (Kütz.) Børgesen, *C. tortuosa* (Dillw.) Kütz.
Reference: Kornmann and Sahling (1977).
Stations: 1016, 1034, 1048, 1115, 1118, 1127, 1130, 1175, 1272, 1273, 1274, 1280, 1291, 1305, 1351, 1358, 1362, 1363, 1380, 1682, 1683, 1688, 1719, 1720.

Littoral to 10 m depth.

Remarks: collected in May-October. On rocks and epiphytic on *Devaleraea ramentacea* and *C. melagonium*.



Fig. 42. *Cladophora pygmaea*. Scale bar 40 μ m.

Chaetomorpha linum (O.F.Müll.) Kütz.

Reference: Kornmann (1972).

Stations: 1116, 1701.

Littoral rockpools and sublittoral 0-5 m depth.

Remarks: collected in June and October.

Chaetomorpha melagonium (F.Weber & D.Mohr)
Kütz.

Reference: Kornmann and Sahling (1977).

Stations: 1020, 1027, 1028, 1029, 1031, 1032, 1036,

1038, 1049, 1119, 1124, 1127, 1137, 1273, 1274,
1276, 1278, 1283, 1285, 1288, 1291, 1305, 1351,
1357, 1363, 1365, 1366, 1372, 1380, 1683, 1685,
1688, 1689, 1690, 1691, 1692, 1701, 1702, 1716,
1722, 1738, 1776, 1779, 1782, 1785, 1852, 1912,
1914.

Littoral rockpools and sublittoral 0-20 m depth.

Remarks: collected in February and May-October.

Sporangia in February, June and October. On rocks
and epiphytic on holdfasts of *Laminaria hyper-*
borea.

* ***Chlorochytrium dermatocolax*** Reinke

Reference: Svedelius (1901).

Station: 1717.

Littoral rockpools.

Remarks: collected in February. Endophytic in *Sphace-*
laria radicans.

Cladophora flexuosa (O.F. Müll.) Kütz.

Cladophora gracilis (J.W.Griff. ex J.Mackay) Kütz.

References: Jónsson *et al.* (1989), Noailles (1995).

Stations: 1016, 1043, 1045, 1124, 1126, 1137, 1272,
1274, 1289, 1769, 1776, 1780.

Littoral rockpools and sublittoral 0-2 m depth.

Remarks: collected in June, July and September.

Sporangia in July.

* ***Cladophora pygmaea*** Reinke (Fig. 42)

Reference: Wærn (1940).

Stations: 1023, 1029, 1040, 1041, 1116, 1126, 1127,
1128, 1349, 1686, 1852.

Sublittoral 0-15 m depth.

Remarks: collected in April, June-August and October.

Sporangia in June. On pebbles, barnacles and epi-
phytic on *Peyssonellia dubyi* and holdfasts of *Lam-*
inaria digitata.

Cladophora rupestris (L.) Kütz. (Fig. 43)

Reference: Burrows (1991).

Stations: 1016, 1037, 1043, 1044, 1045, 1046, 1048,
1049, 1113, 1120, 1121, 1124, 1126, 1127, 1137,
1142, 1175, 1183, 1272, 1273, 1274, 1279, 1281,
1288, 1289, 1297, 1305, 1347, 1349, 1352, 1353,
1354, 1357, 1358, 1363, 1364, 1376, 1380, 1682,
1683, 1684, 1686, 1687, 1688, 1689, 1693, 1694,
1695, 1696, 1697, 1701, 1702, 1709, 1717, 1738,
1756, 1764, 1769, 1771, 1773, 1774, 1778, 1779,
1781, 1782, 1785, 1850, 1851, 1852.

Littoral to 15 m depth.

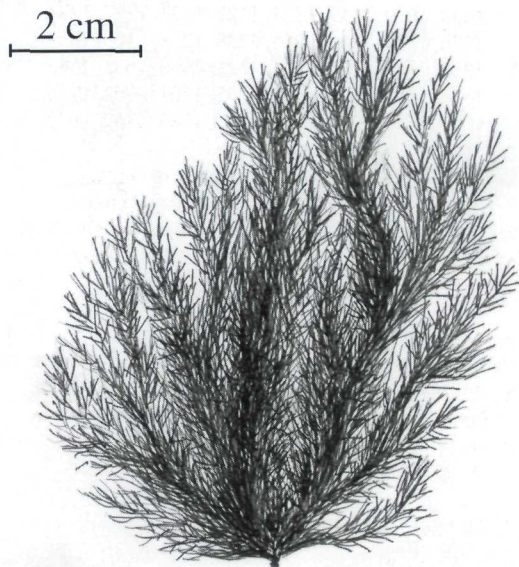


Fig. 43. *Cladophora rupestris*. Scale bar 2 cm.
Drawing Astrid Andreassen.

Remarks: collected in February and April-October.
Sporangia in July, August and October.

Cladophora sericea (Huds.) Kütz.

Cladophora glaucescens (J.W.Griff. ex Harv.) Harv.
Reference: Jónsson *et al.* (1989), Noailles (1995).
Stations: 1113, 1126, 1137, 1347, 1349, 1353, 1719,
1785.

Littoral rockpools and sublittoral 0-1 m depth.
Remarks: collected in April-June and August.

Codiolum pusillum (Lyngb.) Foslie

Remarks: recorded by Børgesen (1902). Probably a
phase in the life history of an *Urospora* sp., *Ulothrix*
sp., or *Monostroma undulatum* (Lokhorst and Trask,
1981).

Derbesia marina (Lyngb.) Solier

Halicystis ovalis (Lyngb.) Aresch., *Valonia ovalis*
(Lyngb.) C.Agardh.
Reference: Kornmann and Sahling (1977).
Stations: 1008, 1013, 1027, 1032, 1038, 1118, 1234,
1285, 1293, 1344, 1360, 1365, 1366, 1372, 1377,
1378, 1379, 1382, 1724, 1730, 1731.

Sublittoral (4-) 5-25 (-30) m depth.

Remarks: collected in April-September. Sporangia in
May. Epiphytic on *Callophyllis laciniata*, *Corallina*
officinalis, *Odonthalia dentata*, stipe and hold-
fast of *Laminaria hyperborea*, epizoic on barna-
cles, *Modiolus modiolus* and sertulariid polychaetes.

Enteromorpha compressa (L.) Nees

Enteromorpha intestinalis var. *compressa* (L.) Rosenv.
References: Bliding (1963), Koeman and Hoek
(1982a).
Stations: 1033, 1042, 1043, 1120, 1121, 1272, 1274,
1275, 1279, 1298, 1305, 1349, 1364, 1682, 1684,
1687, 1719, 1851, 1853.
Littoral to 5 m depth.
Remarks: collected in April-October. Sporangia in
September. On rocks and epiphytic on *Corallina*
officinalis.

Enteromorpha intestinalis (L.) Nees

Enteromorpha intestinalis var. *genuina* Rosenv.
References: Bliding (1963), Koeman and Hoek
(1982a).
Stations: 1016, 1024, 1035, 1043, 1044, 1045, 1047,
1049, 1115, 1120, 1121, 1126, 1127, 1137, 1142,
1174, 1187, 1275, 1280, 1281, 1282, 1288, 1289,
1297, 1305, 1347, 1349, 1351, 1352, 1353, 1354,
1355, 1357, 1358, 1363, 1364, 1371, 1380, 1683,
1685, 1686, 1687, 1688, 1689, 1694, 1695, 1697,
1701, 1702, 1703, 1709, 1719, 1720, 1721, 1732,
1738, 1768, 1769, 1771, 1773, 1774, 1775, 1776,
1777, 1779, 1780, 1781, 1783, 1784, 1850, 1852,
1911, 1912.
Littoral to 2 (-5) m depth.
Remarks: collected in April-October. Sporangia in
May-October.

Enteromorpha linza (L.) J.Agardh

References: Bliding (1963), Koeman and Hoek (1984).
Stations: 1001, 1016, 1024, 1035, 1045, 1126, 1142,
1174, 1175, 1187, 1281, 1297, 1347, 1348, 1353,
1357, 1358, 1364, 1689, 1690, 1692, 1697, 1723,
1732, 1738, 1771, 1777, 1779, 1850.
Littoral on rocks and in rockpools.
Remarks: collected in April-October with sporangia
throughout.

Enteromorpha prolifera (O.F.Müll.) J.Agardh

Enteromorpha intestinalis var. *prolifera* (O.F.Müll.)
Børgesen.

References: Bliding (1963), Koeman and Hoek (1982b).

Stations: 1001, 1016, 1041, 1115, 1119, 1120, 1126, 1127, 1137, 1138, 1140, 1174, 1175, 1183, 1275, 1278, 1288, 1291, 1349, 1352, 1355, 1357, 1362, 1376, 1697, 1709, 1717, 1719, 1769, 1783, 1785, 1912.

Littoral to 15 m depth.

Remarks: collected in February and April-October. Sporangia in May, August and October. On rocks and epiphytic on *Palmaria palmata*, *Laminaria* sp. and *Cladophora* sp.

* **Enteromorpha simplex** (K.L.Vinogr.) Koeman & C.Hoek

Reference: Koeman and Hoek (1982b).

Stations: 1126, 1348, 1363, 1719, 1722, 1780, 1850.

Littoral on rocks and in rockpools.

Remarks: collected in April-August. Sporangia in July.

Enteromorpha torta (Mert. in Jürg.) Reinbold

Reference: Bliding (1963).

Stations: 1719, 1783.

Littoral.

Remarks: collected in May and August. On rocks and epiphytic on *Acrostiphonia arcta*.

* **Epicladia flustrae** Reinke

Reference: Nielsen (1984).

Station: 1725.

Sublittoral 15-17 m depth.

Remarks: collected in May. Endozoic in bryozoan.

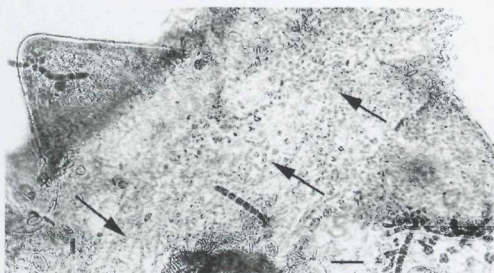


Fig. 44. *Epicladia phillipsii* (filaments at the arrows) endozoic in the bryozoan *Alcyonidium hirsutum*. Scale bar 40 μ m.

* **Epicladia phillipsii** (Batters) R.Nielsen (Fig. 44)

Reference: Nielsen (1984).

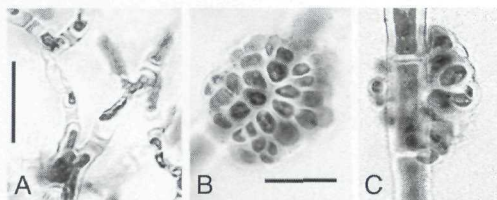


Fig. 45A. *Eugomontia sacculata* with thick cross walls. B, C. *Syncoryne reinkei*. Scale bars 20 μ m.

Stations: 1285, 1344, 1357, 1688.

Littoral to 7 m depth.

Remarks: collected in April, May and August-October.

Sporangia in August. Endozoic in the bryozoan *Alcyonidium hirsutum* (Fleming). Also recorded by Kongsrud (2000, unpubl. report).

* **Eugomontia sacculata** Kornmann (Fig. 45A)

Reference: Kornmann (1960).

Stations: 1120, 1121, 1123, 1126, 1127, 1128, 1132, 1273, 1274, 1275, 1279, 1288, 1300, 1301, 1363, 1682, 1692, 1697, 1702, 1710, 1768.

Littoral to 25 m depth.

Remarks: collected in February, May-July, September and October. Sporangia in June and October. In shells of barnacles, molluscs and in sertularid polychaetes.

Gomontia phase

References: Kornmann (1959; 1962a).

Stations: 1009, 1021, 1034, 1043, 1118, 1120, 1121, 1126, 1127, 1272, 1274, 1275, 1281, 1288, 1291, 1305, 1347, 1354, 1363, 1364, 1683, 1697, 1701, 1702, 1703, 1768, 1777.

Littoral to 15 m depth.

Remarks: collected in April-July and September-October. In shells of barnacles, molluscs and in tubes of sertularid polychaetes. Previous records of *Gomontia polyrhiza* (Lagerh.) Bornet & Flahault (Børgesen 1902, Irvine 1982) were not supported by culture studies and therefore remain uncertain (Nielsen and Correa, 1987).

Halochlorococcum moorei (N.L.Gardner) Kornmann and Sahling

Chlorochytrium cohnii E.P.Wright.

Reference: Kornmann and Sahling (1983, as *Chlorocystis cohnii* (E.P.Wright) Reinhard).

Stations: 1001, 1119, 1306, 1757.

Littoral to 3 (-5) m depth.

Remarks: collected in June, July and September. Sporangia in July and September. Endophytic in *Blidingia minima*, *Enteromorpha prolifera* and "*Schizonema*".

* **Kornmannia leptoderma** (Kjellm.) Bliding

References: Bliding (1968), Kornmann and Sahling (1977).

Stations: 1110, 1274, 1275, 1289.

Littoral to 2 (-3) m depth.

Remarks: collected in May and September.

Monostroma grevillei (Thur.) Wittr.

Reference: Kornmann (1962a), Kornmann and Sahling (1962).

Stations: 1001, 1016, 1020, 1034, 1035, 1047, 1048, 1049, 1110, 1115, 1116, 1117, 1118, 1120, 1126, 1137, 1174, 1175, 1274, 1291, 1347, 1349, 1351, 1352, 1353, 1354, 1357, 1358, 1363, 1371, 1376, 1380, 1719, 1723, 1726, 1732, 1738, 1759, 1760, 1768, 1769, 1774, 1775, 1778, 1779, 1782, 1783, 1785, 1850.

Littoral to 15 m depth.

Remarks: collected in April-August. On rocks and epiphytic on *Ahnfeltia plicata*, *Ceramium rubrum*, *Chondrus crispus*, *Corallina officinalis*, *Furcellaria lumbricalis*, *Lomentaria articulata*, *Mastocarpus stellatus*, *Palmaria palmata*, *Desmarestia aculeata*, *Chaetomorpha melagonium* and *Cladophora rupestris*.

Ostreobium quekettii Bornet & Flahault

Reference: Kornmann and Sahling (1980).

Stations: 1004, 1006, 1008, 1009, 1011, 1012, 1013, 1014, 1015, 1016, 1018, 1019, 1021, 1023, 1026, 1027, 1033, 1036, 1037, 1040, 1041, 1117, 1118, 1119, 1123, 1127, 1128, 1129, 1132, 1134, 1273, 1276, 1277, 1278, 1279, 1283, 1284, 1285, 1286, 1290, 1293, 1294, 1295, 1296, 1298, 1299, 1300, 1301, 1360, 1365, 1366, 1374, 1378, 1692, 1701, 1710, 1714, 1715, 1716, 1717, 1726, 1734, 1735, 1736, 1913.

Sublittoral 0-25 m depth.

Remarks: collected in February and May-October.

Sporangia in February, June and September. Frequent in tubes of sertularid polychaetes, also recorded in shells of barnacles, calcified hydroids and mollusc shells.

Percursaria percursa (C.Agardh) Bory

Reference: Kornmann and Sahling (1977).

Station: 1916.

Littoral.

Remarks: collected in August.

* **Phaeophila dendroides** (P.Crouan & H.Crouan)

Batters

References: Kylin (1935), Nielsen (1972).

Stations: 1347, 1353, 1364, 1702, 1703, 1774, 1775, 1776, 1777, 1779, 1780.

Littoral.

Remarks: collected in April-May, July and October. In shells of barnacles and tubes of *Spirorbis* sp.

* **Prasiola calophylla** (Carmich. ex Grev.) Menegh.

References: Kornmann and Sahling (1974), Rindi *et al.* (1999).

Stations: 1001, 1007, 1049, 1115, 1126, 1282, 1289, 1297, 1306, 1709.

Littoral.

Remarks: collected in February, May-July and September.

Prasiola crispa (Lightf.) Menegh.

Prasiola crispa ssp. *terrestris* (Roth) Børgesen.

Remarks: recorded by Børgesen (1902).

Prasiola furfuracea (Mert.) Menegh.

References: Kornmann and Sahling (1974), Wærn (1952).

Stations: 1282, 1306, 1851.

Littoral.

Remarks: collected in August and September.

Prasiola stipitata Suhr in Jess.

References: Kornmann and Sahling (1977), Rindi *et al.* (1999).

Stations: 1024, 1035, 1047, 1050, 1305, 1347, 1349, 1351, 1352, 1353, 1358, 1363, 1689, 1690, 1720, 1723, 1732, 1733, 1738, 1756, 1763, 1765, 1771, 1775, 1779, 1780, 1784, 1850.

Littoral.

Remarks: collected in April-October with cysts. Male and female sori in April and July.

Pringsheimiella scutata (Reinke) Marchew.

Pringsheimia scutata Reinke.

Reference: Nielsen and Pedersen (1977).

A



B



Fig. 46A. *Pseudendoconium dynamenae* endozoic in the hydroid *Dynamena pumila*. B. *P. dynamenae*.
Scale bars A: 200 μ m, B: 20 μ m.

Stations: 1305, 1701, 1717.

Littoral on rocks and in rockpools.

Remarks: collected in February, September and October. Epiphytic on *Polysiphonia fucoides* and *Chaetomorpha linum*.

Protomonostroma undulatum (Wittr.) K.L.Vinogr.

Monostroma undulatum Wittr.

Reference: Kornmann and Sahling (1962).

Stations: 1124, 1348, 1371, 1722, 1738.

Littoral.

Remarks: collected in April-June. On rocks, *Patella*

vulgata and epiphytic on *Corallina officinalis* and *Himanthalia elongata*.

* **Pseudendoconium dynamenae** R.Nielsen (Fig. 46)

Reference: Kornmann and Sahling (1994).

Stations: 1126, 1288, 1289, 1349, 1682, 1782, 1851.

Littoral.

Remarks: collected in April, June and August-October.

Sporangia in September. Endozoic in *Dynamena pumila*.

Pseudendoconium fucicola (Rosenv.) R.Nielsen

Pseudopringsheimia fucicola (Rosenv.) Wille, *Ulvella fucicola* Rosenv.

Reference: Nielsen (1980).

Stations: 1046, 1349, 1682, 1686, 1687, 1709.

Littoral.

Remarks: collected in January-February, April and Oc-

tober. Epiphytic on *Fucus vesiculosus* and *Laminaria digitata*.

Pseudendoconium submarinum Wille

Reference: Nielsen (1980).

Station: 1279.

Littoral.

Remarks: collected in September. On wooden poles.

Pseudopringsheimia confluens (Rosenv.) Wille

Ulvella confluens Rosenv.

Reference: Perrot (1969).

Recorded by Børgesen (1902).

* **Rhizoclonium implexum** (Dillwyn) Kütz.

References: Lein *et al.* (1999), Wille (1901b, as *R. kernerii* Stockm.).

Stations: 1306, 1717, 1851.

Littoral.

Remarks: collected in February, August and September.

Rhizoclonium riparium (Roth) Harv.

Reference: Kornmann and Sahling (1977).

Stations: 1016, 1047, 1048, 1049, 1050, 1120, 1121, 1126, 1137, 1272, 1279, 1281, 1289, 1297, 1349, 1350, 1352, 1353, 1354, 1363, 1371, 1380, 1682, 1684, 1687, 1688, 1689, 1690, 1694, 1703, 1719, 1720, 1738, 1769, 1773, 1774, 1775, 1780, 1850, 1853.

Littoral.

Remarks: collected in May-October.

Rosenvingiella polyrhiza (Rosenv.) P.C.Silva
Prasiola crispa (Lightf.) Menegh. ssp. *marina*
Børgesen.

Reference: Børgesen (1902).

Stations: 1046, 1047, 1049, 1272, 1282, 1297, 1306,
1349, 1363, 1376, 1682, 1690, 1697, 1709, 1720,
1733, 1738, 1769, 1773.

Upper littoral.

Remarks: collected in January, February, April-July,
September and October. Male reproductive struc-
tures in January, February and September, female
reproductive structures in February.

Spongomorpha aeruginosa (L.) C.Hoek

Spongomorpha lanosa (Roth) Kütz., *S. uncialis* Kütz.,
S. vernalis (Kjellm.) Jónss.

Reference: Kornmann and Sahling (1977).

Stations: 1019, 1040, 1043, 1049, 1110, 1113, 1115,
1119, 1120, 1124, 1126, 1137, 1274, 1279, 1349,
1360, 1363, 1376, 1380, 1382, 1719, 1720, 1722,
1724, 1757.

Littoral to 21 (-23) m depth.

Remarks: collected in April-July and September. Epi-
phytic on *Callophyllis laciniata*, *Ceramium*
rubrum, *Cystoclonium purpureum*, *Dilsea carnosa*,
Dumontia contorta, *Fimbrifolium dichotomum*,
Furcellaria lumbricalis, *Palmaria palmata*,
Polyides rotundus, *Polysiphonia fucooides*, *Acrosi-*
phonia arcta, *Cladophora sericea* and on rocks,
barnacles and *Modiolus modiolus*.

The unicellular sporophytic *Codiolum*-phase:

Chlorochytrium inclusum Kjellm., *Codiolum petroce-*
lidis Kuck.

Reference: Kornmann 1964.

Stations: 1032, 1045, 1046, 1127, 1273, 1274, 1279,
1717, 1850, 1851, 1853.

Littoral to 10 m depth.

Remarks: collected in January, February and June-Sep-
tember. Endophytic in *Chondrus crispus*, *Dilsea*
carnosa, *Haemescharia hennedyi*, *Polyides rotun-*
dus, *Polysiphonia lanosa*, *Fucus vesiculosus* and
Pelvetia canaliculata.

* **Sykidion droebakense** Wille

Reference: Wille (1901a).

Stations: 1349, 1717.

Littoral.

Remarks: collected in February and April. Epiphytic
on *Rhizoclonium implexum* and *R. riparium*.

* **Syncoryne reinkei** R.Nielsen & P.M.Pedersen (Fig.
45B, C)

References: Kornmann and Sahling (1983), Nielsen
and Pedersen (1977).

Stations: 1120, 1127, 1130, 1137, 1279, 1349, 1354,
1364, 1682, 1686, 1717, 1719, 1756, 1768, 1773,
1776, 1783, 1784, 1851, 1912, 1913.

Littoral to 10 m depth.

Remarks: collected in February and April-October.
Sporangia in May-September. Epiphytic on
Aglaothamnion sepositum, *Antithamnionella floccosa*,
Colaconema sp., *Polysiphonia lanosa*, *P. stricta*,
Rhodochorton purpureum, *Sphacelaria radicans* and *S.*
nana.

* **Tellamia contorta** Batters

Reference: Nielsen and McLachlan (1986).

Stations: 1115, 1120, 1121, 1126, 1137, 1272, 1279,
1280, 1282, 1297, 1349, 1364, 1682, 1684, 1686,
1687, 1717.

Littoral.

Remarks: collected in February, April-June, September
and October. Endozoic in peristacum of *Littorina*
obtusata.

Ulothrix flacca (Dillwyn) Thur. in LeJol.

Ulothrix consociata Wille, *U. pseudoflacca* Wille.

Reference: Lokhorst (1978).

Stations: 1016, 1024, 1043, 1115, 1120, 1297, 1347,
1348, 1354, 1357, 1358, 1361, 1371, 1376, 1700,
1719, 1738, 1768, 1769, 1771, 1775, 1777, 1779,
1781, 1784, 1785, 1850, 1851, 1912.

Littoral to 1 m depth.

Remarks: collected in April-August and October. Epi-
phytic on *Ceramium rubrum*, *Mastocarpus stella-*
tus, *Palmaria palmata*, *Polysiphonia lanosa*, stipe
of *Alaria esculenta*, *Fucus distichus*, *F. spiralis*, *F.*
vesiculosus and on rocks and wood.

* **Ulothrix implexa** (Kütz.) Kütz.

Reference: Lokhorst (1978).

Station: 1352.

Littoral.

Remarks: collected in May.

Ulothrix speciosa (Carmich. ex Harv. in Hook.) Kütz.

Ulothrix isogona (Smith & Sowerby) Thur.

Reference: Lokhorst (1978).

Stations: 1349, 1355.

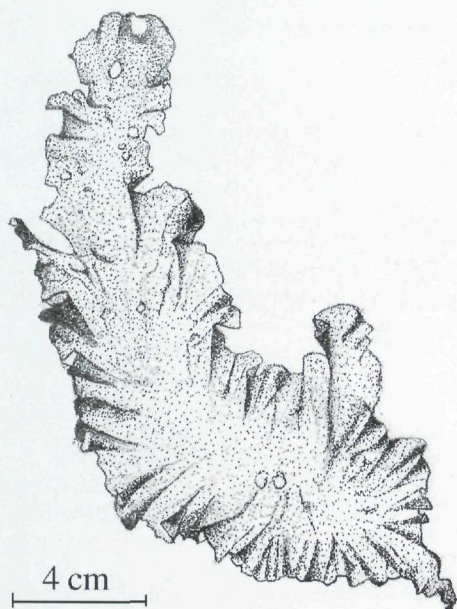


Fig. 47. *Ulva lactuca*. Scale bar 4 cm. Drawing Astrid Andreassen.

Littoral.

Remarks: collected in April and May.

* *Olothrix subflaccida* Wille

Reference: Lokhorst (1978).

Stations: 1047, 1115, 1119, 1120, 1121, 1127, 1306, 1355, 1723.

Littoral to 3 (-5) m depth.

Remarks: collected in May, June and September. Epiphytic on *Ceramium rubrum*, *Fucus spiralis*, *Acrosiphonia arcta* and *Cladophora rupestris*.

Ulva lactuca L. (Fig. 47)

Reference: Burrows (1991), Koeman and Hoek (1981).

Stations: 1001, 1008, 1013, 1016, 1024, 1025, 1027, 1028, 1033, 1041, 1042, 1043, 1045, 1046, 1048, 1049, 1110, 1111, 1116, 1119, 1120, 1121, 1126, 1127, 1137, 1140, 1142, 1146, 1174, 1184, 1187, 1231, 1272, 1273, 1274, 1276, 1278, 1279, 1280, 1287, 1288, 1289, 1291, 1300, 1301, 1305, 1348, 1349, 1353, 1357, 1358, 1361, 1363, 1371, 1380, 1381, 1382, 1682, 1683, 1684, 1685, 1686, 1687, 1689, 1690, 1691, 1693, 1697, 1702, 1716, 1717,

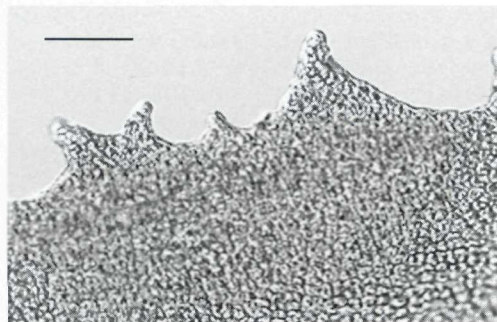


Fig. 48. *Ulva rigida*. Scale bar 40 μ m.

1719, 1720, 1722, 1732, 1733, 1736, 1738, 1739, 1761, 1762, 1765, 1769, 1771, 1772, 1775, 1777, 1781, 1782, 1850, 1851, 1852, 1853, 1911, 1912.

Littoral to 20 m depth.

Remarks: collected in January-February and April-October. On rocks and epiphytic on *Corallina officinalis*, *Desmarestia aculeata* and *Laminaria* sp.

* *Ulva rigida* C.Agardh (Fig. 48)

Reference: Burrows (1991), Koeman and Hoek (1981).

Station: 1382.

Sublittoral (10-15) m depth.

Remarks: collected in May.

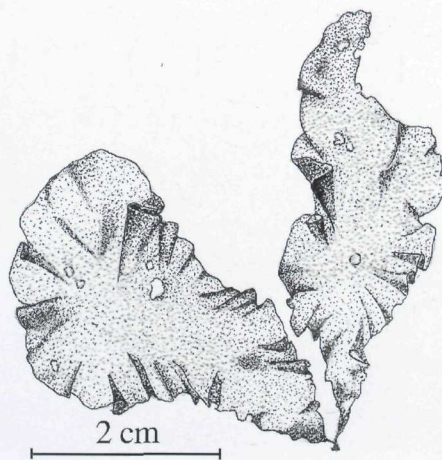


Fig. 49. *Ulvaria fusca*. Scale bar 2 cm. Drawing Astrid Andreassen.

Ulvaria fusca (Postels & Rupr.) Rupr. (Fig. 49)

Monostroma fuscum (Postels & Rupr.) Wittr.

Reference: Bliding (1968, as *Ulvaria obscura* (Kütz.) Gayral).

Stations: 1019, 1020, 1032, 1034, 1036, 1037, 1038, 1041, 1042, 1043, 1045, 1115, 1116, 1118, 1119, 1120, 1121, 1126, 1128, 1137, 1140, 1142, 1174, 1175, 1183, 1187, 1228, 1272, 1273, 1274, 1275, 1278, 1279, 1280, 1281, 1283, 1284, 1285, 1291, 1293, 1305, 1349, 1363, 1364, 1382, 1496, 1682, 1684, 1688, 1691, 1692, 1693, 1697, 1701, 1717, 1723, 1726, 1727, 1757, 1780, 1853, 1912, 1914.

Littoral to 20 m depth.

Remarks: collected in February and April-October. On rocks and epiphytic on *Corallina officinalis*, *Furcellaria lumbricalis*, *Himanthalia elongata* and *Cladophora rupestris*.

* **Ulvella setchellii** P.J.L.Dang. (Fig. 50)

Reference: Nielsen (1977).

Stations: 1030, 1031, 1032, 1036.

Sublittoral 10-20 m depth.

Remarks: collected in July. Epiphytic on *Phyllophora crispa*.

* **Uronema curvatum** Printz (Fig.51)

Reference: Rueness (1992).

Stations: 1008, 1009, 1011, 1013, 1014, 1015, 1021, 1022, 1023, 1026, 1029, 1038, 1040, 1128, 1132, 1134, 1294, 1295, 1296, 1366, 1378, 1382, 1710, 1711, 1713, 1714, 1715, 1724, 1735.

Sublittoral (4-) 5-25 (-30) m depth.

Remarks: collected in February and May-September.

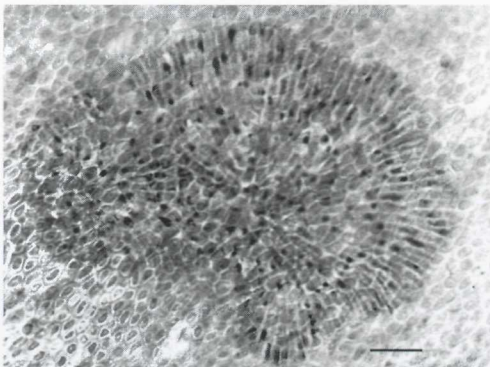


Fig. 50. *Ulvella setchellii* epiphytic on *Phyllophora crispa*. Scale bar 20 μ m.

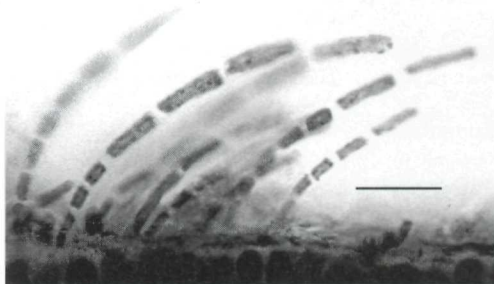


Fig. 51. *Uronema curvatum* epiphytic on *Peyssonnelia dubyi*. Scale bar 20 μ m.

Sporangia in June and September. Epiphytic on *Peyssonnelia dubyi*, *Phyllophora crispa*, *Ptilota serrata*, *Ulvaria fusca*, epizoid on *Gibbula* sp. and *Modiolus modiolus*. Also recorded by Kongsrud (2000, unpubl. report) and by Rueness and Sørli (1992, unpubl. report).

Urospora penicilliformis (Roth) Aresch.

Urospora mirabilis Aresch.

Reference: Lokhorst and Trask (1981).

Stations: 1001, 1016, 1024, 1035, 1045, 1110, 1137, 1353, 1354, 1355, 1362, 1363, 1371, 1376, 1380, 1719, 1722, 1738, 1759, 1760, 1768, 1769, 1774, 1777, 1779, 1780, 1783, 1911, 1913.

Littoral on rocks and in rockpools.

Remarks: collected in May-August. On rocks, *Patella vulgata* and epiphytic on *Palmaria palmata*, *Fucus spiralis* and *Enteromorpha intestinalis*.

Urospora wormskioeldii (Mert. in Hornem.) Rosenv.

Reference: Lokhorst and Trask (1981).

Stations: 1019, 1045, 1358, 1362, 1376, 1380, 1729, 1732, 1733.

Littoral to (0-5) m depth.

Remarks: collected in May and July with sporangia.

The unicellular sporophytic *Codiolum*-phase.

Codiolum gregarium A. Braun.

Reference: Lokhorst and Trask (1981).

Stations: 1282, 1783, 1911.

Littoral.

Remarks: collected in August and September.

Excluded species

Callithamnion decompositum J. Agardh
See note to *Aglaothamnion priceanum*.

Callithamnion granulatum (Ducluz.) C. Agardh
Recorded by Børgesen (1902) but "almost certainly in error" (Irvine, 1982).

Ceramium ciliatum applied by Lyngbye (1819) for specimens of *C. shuttleworthianum* according to Børgesen (1902).

Griffithsia corallinoides (L.) Trevis.
Griffithsia corallina (Lightf.) C. Agardh.
Records by Landt (1800) probably based on misidentification according to Børgesen (1902).

Dictyosiphon chordaria Aresch.
A single specimen was reported by Irvine (1982) with doubt.

Elachista flaccida (Dillwyn) Aresch.
Records by Lyngbye (1819) and Simmons (1897) are based on misidentifications (Børgesen, 1902).

Fucus ceranoides L.
Records by Lyngbye (1819) are doubtful (Børgesen, 1902).

Halidrys siliquosa (L.) Lyngb.
Reference: Rueness (1998).
The only records from the Faroe Islands are based on material collected by Børgesen (1902). Probably now extinct from the area as the species were not found by the British expedition (Irvine, 1982) and not by us although searched for at the same locality as reported by Børgesen (1902).

Herponema velutinum (Grev.) J. Agardh
Ectocarpus velutinus (Grev.) Kütz.
Records by Simmons (1897) are doubtful (Børgesen, 1902).

Pylaiella varia Kjellm.
Pilayella varia Kjellm.
The record of *Ectocarpus littoralis* (L.) Lyngb. emed. Kuck. var. *varia* (Kjellm.) Kuck. by Børgesen (1902) needs confirmation. Among Børgesens herbarium material in (C) is only a single slide preparation of

fragmented material. The record was referred to *Pilayella* sp. by Siemer and Pedersen (1995, Table 1, p. 265).

Saccorhiza polyschides (Lightf.) Batters
Older reports of *Saccorhiza bulbosa* Bach. Pyl. are probably incorrect according to Børgesen (1902).

Acrosiphonia centralis (Lyngb.) Kjellm.
Conferva arcta Dillwyn f. *centralis* Lyngb.
Records by Simmons (1897) and Røstrup (1870) are based on misidentifications (Børgesen, 1902).

Acrosiphonia grandis Kjellm.
Records by Simmons (1897) are based on misidentification (Børgesen, 1902).

Cladophora fracta (O.F. Müll. ex Vahl) Kütz.
Older records are doubtful (Børgesen, 1902). A specimen in (C) referred to *C. fracta* var. *elongata* by Lyngbye was reexamined and proved to be *C. sericea* by Hoek (1963).

Enteromorpha muscoides (Clemente) Cremades in Cremades & Pérez-Cirera
Enteromorpha clathrata (Roth) Grev.
Reference: Koeman and Hoek (1984).
Only recorded by Børgesen (1902), uncertain as re-examination of specimens in (C) referred to *E. clathrata* by Børgesen proved them to be *E. prolifera*. Specimens referred to *E. ramulosa* by Simmons (1897) probably also belong into this entity (see Børgesen, 1902, p. 494).

Ulva crassa Kjellm.
Probably synonymous with *Ulva lactuca* (see Bliding, 1968 p. 544).

Discussion

The 113 Rhodophyceae, 83 Phaeophyceae, 4 Xanthophyceae and 64 Chlorophyceae listed here total to 264 species, 42 of these are new records for the Faroe Island. We also identified 18 Cyanophyceae.

Lyngbye (1819) included about 100 species of marine algae from the Faroe Is-

lands, Simmons (1897) about 125, Børgesen (1902) 216 and Irvine (1982) 223 species. In comparing the numbers it is important to realise that the delimitations of species have changed over the years, some were in the past considered independent species and later changed the status, others were found to be different phases in the life history of a single species. Other algae, considered taxa of lower rank have now been elevated to species or referred to different species.

The number of species partly reflects the intensity of studies and only a few are likely newcomers within the period of published records.

Many small species, especially microscopic epiphytes, crustose algae and Cyanophyceae may have been overlooked in previous investigations. The same concerns the heteromorphic brown algae, *Acrothrix gracilis* and *Striaria attenuata*, these can be present as unrecognizable microthalli and only develop macrothalli under suitable conditions at unpredictable intervals. *Acrothrix gracilis* is widely distributed in the North Atlantic, but not reported from Iceland (Forward and South, 1985); *Striaria attenuata* is widely distributed in the eastern part of the North Atlantic, but not reported from the Shetland Islands and Iceland (South and Tittley, 1986).

Justified as candidates for newcomers are therefore only the relatively large species. *Callithamnion tetragonum* is widely distributed in the North Atlantic, including Iceland (South and Tittley, 1986). *Ceramium diaphanum* has a southern dis-

tribution in the northeastern North Atlantic (South and Tittley, 1986 as *C. tenuissimum* (Roth) J. Agardh). A surprising discovery was *Ophiocladus simpliciusculus* since this species is known from the warm temperate Atlantic Ocean and also the Seychelles (Wynne, 1995) and South Africa (Stegenga *et al.*, 1997). *Dilsea carnosa* is an example of a successful newcomer, first reported by Rex (1970, unpubl. report). In our material *D. carnosa* was very common often well developed with fronds up to 80 cm long. Another example may be *Fucus serratus*, the old report by Landt (1800) was neither documented nor confirmed by succeeding investigations; therefore both Børgesen (1902) and Irvine (1982) thought it was a mistake. The species was collected at a single locality in the Trongisvágsfjord in 1997 (Bruntse *et al.*, 1999a; 1999b), while well developed stands were observed at several places along the same fjord in 2000 (K. Gunnarsson, pers. obs.).

In sheltered localities a non digitate *Laminaria* with a long hollow stipe occurs, it was described as *L. longicuris* var. *faeroensis* by Børgesen (1896) and later elevated to species (Børgesen, 1902) based on the absence of mucilage ducts in the stipe.

Laminaria longicuris is common along the east coast of North America, from Arctic Canada to Connecticut (Egan and Yarish, 1988). Transplant experiments have shown that both the presence of mucilage ducts and hollow stipe are influenced by environmental conditions (Chapman, 1973; 1974). In a series of crossing experiments nearly complete interfertility was found be-

tween hollow and solid stiped *Laminaria* plants in the North Atlantic with and without mucilage ducts (Chapman, 1974; 1975; Lüning *et al.*, 1978; Bolton *et al.*, 1983). This suggests that all the plants are closely related or may belong to the same species, for which the epithet *L. saccharina* has priority. This was challenged by Egan and Yarish (1990) who argued that *L. longicruris* has a distinctive morphology with a characteristic swelling of the upper part of the stipe separating it from *L. saccharina*.

Non digitate *Laminaria* plants with hollow stipes have also been observed in sheltered localities in southwestern Scotland (Parke, 1948), the Shetland Isles (Kain, 1976) and in eastern Iceland (Sjötun and Gunnarsson, 1995). In these localities no external morphological features were found that distinguished the hollow stiped plants from the solid stiped *L. saccharina* growing amongst them. Therefore, all plants were referred to *L. saccharina* by the respective authors.

The Faroese plants agree with *L. longicruris* in respect to stipe morphology, however, as the taxonomic situation in this complex is still unclear, the name *L. faeroensis* is retained in the present paper pending further studies.

Small epi- and endophytes associated with larger algae were commonly recorded; brown algae referable to genera as *Chilionema*, *Myrionema*, *Phaeostroma* and *Streblonema* were difficult to identify. It is likely that some represent microthalli of larger brown algae. An interesting continuation for future research would be studies that involve detailed observation of such

plants in culture supported by molecular work to assist possible identification.

The identification of *Ceramium* species was also a challenge due to the variation within species as reflected by the large number of subspecies (cf. Petersen, 1911). *Ceramium pallidum*, *C. rubrum* and *C. secundatum* were identified with reservation; characters used were general morphology, number of segments between primary branching points, number of periaxial cells and only little attention to the development of cortex. The status of *C. atlanticum*, *C. boergesenii* needs confirmation and the same concerns the *C. diaphanum* recorded by Irvine (1982). To obtain a better understanding of species complexes in this genus, culture studies with crossing experiments and molecular investigation are required.

The Cyanophycean flora of the Faroes needs further studies, in the present study 18 species were identified. Börgesen (1902) recorded 14 species of Cyanophyceae of which all except 3, i.e. *Calothrix aeruginea* (Kütz.) Thur. ex Bornet & Flahault, *Chlorogloea tuberculosa* (Hansg.) Wille and *Schizothrix tenerrima* (Gomont) Drouet (as *Microcoleus tenerrimus* Gomont), were found in the present study. Irvine (1982) recorded 9 species of Cyanophyceae. But as he applied the classification system of Drouet and Daily (Drouet and Daily, 1956; Drouet, 1968), his records can not be directly compared with ours. Holt (1975, unpublished report) recorded a few species not recorded by others. We suppose that detailed investigations including culture studies may confirm

some of these records and add a number of species not previously recognised in the area.

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Index

Genera, and the current names for species occurring in the Faroes are shown in Roman type while italics indicates other species and synonyms.

- acanthonotum*, *Ceramium* 55
 Acrochaete 82
 Acrochaetium 51
 Acrosiphonia 82, 83, 92
 Acrothrix 68, 93
 Actinococcus 55
 aculeata, *Desmarestia* 70
 aecidioides, *Gononema* 73
aecidioides, *Myrionema* 73
 aeruginea, *Calothrix* 94
 aeruginosa, *Spongomorpha* 89
 Aglaothamnion 51, 52
 Aglaozonia 70
 Ahnfeltia 52
 Alaria 68
 alariae, *Acrochaetium* 51
alariae, *Audouinella* 51
alariae, *Chantransia* 51
alariae, *Chromastrum* 51
alata, *Delesseria* 60
 alata, *Membranoptera* 60, 61
albescens, *Acrosiphonia* 82
alsidii, *Goniotrichum* 67
 alsidii, *Stylonema* 67
 amethystea, *Chroococcopsis* 49
amethystea, *Pleurocapsa* 49
 amplissima, *Porphyra* 65
 Antithamnion 52, 66, 67
 Antithamnionella 52
arbuscula, *Callithamnion* 52
arcta f. *centralis*, *Conferva* 92
arcta, *Acrosiphonia* 82
arcta, *Spongomorpha* 82
 arctica, *Sphacelaria* 80
articulata, *Chylocladia* 59
 articulata, *Lomentaria* 59
 Ascophyllum 69
 Asperococcus 69
 atlanticum, *Ceramium* 53, 94
 atra, *Rivularia* 50
 atropurpurea, *Bangia* 52
atrorubescens, *Polysiphonia* 65
 attenuata, *Striaria* 81, 93
 Audouinella 51, 52, 55, 60, 66
 autumnale, *Phormidium* 50
 balani, *Hyella* 49
 Bangia 52
 battersii, *Leptolyngbya* 49
battersii, *Plectonema* 49
 bertholdii, *Erythrotrichia* 57
binderi, *Acrosiphonia* 82
 bipinnatum, *Aglaothamnion* 51
 Blidingia 83
 Boergesenella 53
 boergesenii, *Ceramium* 54, 94
 Bolbocoleon 83
 Bonnemaisionia 53
boreale, *Antithamnion* 67
boryana, *Erythrotrichia* 65
 boryanum, *Porphyrostromium* 65
brachiata, *Phloeospora* 81
britannica, *Sphacelaria* 80
brodiaei, *Phyllophora* 55
 brodiaei, *Polysiphonia* 64
 Brongniartella 53
 Bryopsis 83
bulbosa, *Saccorhiza* 92
 bullosus, *Asperococcus* 69
 byssoides, *Brongniartella* 53
 caespitosa, *Hyella* 49
 caespitula, *Sphacelaria* 80
 Callithamnion 51, 52, 53, 92, 93
 Callocolax 53
 Callophyllis 53
 calophylla, *Prasiola* 87
 Calothrix 49, 94
 canaliculata, *Pelvetia* 78
capillaris, *Chaetomorpha* 83
 Capsosiphon 83
 carnea, *Erythrotrichia* 57
 carnosa, *Dilsea* 56, 93
 cartilagineum, *Plocamium* 63
 Castagnea 71
centralis, *Acrosiphonia* 92
ceramicola, *Erythrotrichia* 57
 Ceramium 53, 54, 55, 92, 93, 94
ceranoides, *Fucus* 92
 Chaetomorpha 83, 84
 Chaetopteris 80
 Chantransia 51, 52, 55
 Chillionema 70, 94
 Chlorochytrium 84, 86, 89
 Chlorocystis 86
 Chlorogloea 94

- Chondrus 55
 Chorda 70, 73
 Chordaria 70
chordaria, *Dictyosiphon* 92
 Choreocolax 55
 Chromastrum 51
 Chroococcopsis 49
 chthonoplastes, *Microcoleus* 50
 Chylocladia 59
ciliatum, *Ceramium* 92
 circumscriptum, *Clathromorphum* 55
 cirrosa, *Sphacelaria* 80
 Cladophora 84, 85, 92
 Cladostephus 70
clathrata, *Enteromorpha* 92
 Clathromorphum 55
 clavaeformis, *Myriotrichia* 78
clavata, *Ralfsia* 81
clavata, *Stragularia* 81
clavellosa, *Chylocladia* 59
clavellosa, *Lomentaria* 59
coccinea, *Porphyra* 65
coccinea, *Porphyropsis* 65
coccineum, *Plocamium* 63
 Coccotylus 55
 Codiolum 85, 89, 91
Codiolum phase 89, 91
cohnii, *Chlorochytrium* 86
cohnii, *Chlorocystis* 86
 Colaconema 55
 collopodum, *Acrochaetium* 51
collopodum, *Chromastrum* 51
compactum, *Phymatolithon* 55
compressa, *Enteromorpha* 85
 Conchocelis 56
Conchocelis phase 56
 Conferva 92
confervoides, *Ectocarpus* 71
confervoides, *Rhodomela* 67
 confluens, *Pseudopiringsheimia* 88
confluens, *Ulvella* 88
consociata, *Ulothrix* 89
 contorta, *Dumontia* 57
 contorta, *Tellamia* 89
 Corallina 56
corallina, *Griffithsia* 92
corallinae, *Dermatolithon* 67
corallinae, *Lithophyllum* 67
corallinae, *Titanoderma* 67
corallinoides, *Griffithsia* 92
coronata, *Vaucheria* 81
corunnae, *Myrionema* 77
corymbosum var. *amphicarpa*, *Callithamnion* 53
crassa, *Ulva* 92
crepidinum, *Gloeocapsa* 49
crepidinum, *Gloeocapsopsis* 49
crispa ssp. *marina*, *Prasiola* 89
crispa ssp. *terrestris*, *Prasiola* 87
crispa, *Phyllophora* 63
crispa, *Prasiola* 87
crispus, *Chondrus* 55
cristata, *Callophyllis* 53
cristata, *Euthora* 53
crouanii, *Dermatolithon* 59
crouanii, *Hildenbrandia* 58
crouanii, *Lithophyllum* 59
 Cruoria 56
Cryptopleura 56
curvatum, *Uronema* 91
 Cutleria 70
 Cyanocystis 50
 Cystoclonium 56
dasyarpus, *Ectocarpus* 71
daviesii, *Audouinella* 55
daviesii, *Chantransia* 55
daviesii, *Colaconema* 55
decipiens, *Sterrocolax* 52
decompositum, *Callithamnion* 51, 92
 Delesseria 56, 60, 63
dendroides, *Phaeophila* 87
dentata, *Odonthalia* 61
 Derbesia 85
dermatocolax, *Chlorochytrium* 84
Dermatolithon 59, 67
Dermocarpa 49, 50
 Desmarestia 70
Desmotrichum 79
 Devaleraea 56
diaphanum, *Ceramium* 54, 93, 94
 Dichloria 70
dichotoma, *Rhodophyllis* 57
dichotomum, *Fimbrifolium* 57
Dictyosiphon 71, 92
diformis, *Leathesia* 76
digitata, *Laminaria* 75
dillwynii, *Vaucheria* 81
 Dilsea 56, 93
dioica, *Porphyra* 65
distichus ssp. *anceps*, *Fucus* 72
distichus ssp. *distichus*, *Fucus* 72

- distichus* ssp. *edentatus*, *Fucus* 72
distichus, *Fucus* 72
 droebakense, *Sykidion* 89
 dubyi, *Peyssonnelia* 63
Dumontia 57
dynamenae, *Pseudendoclonium* 88
echinatus, *Asperococcus* 69
Ectocarpus 71, 74, 76, 78, 80, 81, 92
edulis, *Dilsea* 56
efflorescens, *Audouinella* 52
efflorescens, *Chantransia* 52
ekmanii, *Dictyosiphon* 71
Elachista 71, 92
elegans, *Plumaria* 63
elegans, *Ptilota* 64
elegans, *Rhododermis* 67
elegans, *Rhodophysemia* 67
elongata, *Himantalia* 74
elongata, *Polysiphonia* 64
Endoderma 82
endophytica, *Hyella* 49
Enteromorpha 83, 85, 86, 92
Entocladia 82
Epicladia 86
Erythrocladia 57
Erythrodermis 57
Erythrotrichia 57
esculenta, *Alaria* 68
Eudesme 71
Eugomontia 86
Euthora 53
evanescens, *Fucus* 72
extensum, *Pseudolithoderma* 79
faeroense, *Myrionema* 78
faeroensis, *Laminaria* 76, 94
faeroensis, *Protectocarpus* 78
farlowii, *Cyanocystis* 50
farlowii, *Dermocarpa* 50
farlowii, *Sphaenosiphon* 50
fascia, *Petalonia* 78
fascia, *Phyllitis* 78
fasciculata, *Leptonematella* 76
fasciculatum, *Leptonema* 76
fasciculatus, *Ectocarpus* 71
Fastigiaria 58
fastigiata, *Furcellaria* 58
fastigiata, *Polysiphonia* 65
faticens, *Lithoderma* 79
fibrata, *Polysiphonia* 64
fibrillosa, *Polysiphonia* 64
filiforme, *Pogotrichum* 78
filiformis, *Dumontia* 57
filiformis, *Litosiphon* 78
filum, *Chorda* 70
Fimbrifolium 57
fistulosus, *Asperococcus* 69
flacca, *Ulothrix* 89
flaccida, *Acrosiphonia* 83
flaccida, *Elachista* 92
flagellata, *Acrosiphonia* 83
flagelliformis, *Chordaria* 70
flexuosa, *Cladophora* 84
floccosa, *Antithamnionella* 52
floccosum, *Antithamnion* 52
floccosum, *Callithamnion* 52
flosculosa, *Griffithsia* 58
flosculosus, *Halurus* 58
flustrae, *Epicladia* 86
foecundum, *Hecatonema* 77
foecundum, *Myrionema* 77
foeniculaceus, *Dictyosiphon* 71
fracta, *Cladophora* 92
fruticulosa, *Boergesenella* 53
fruticulosa, *Polysiphonia* 53
fucicola, *Elachista* 71
fucicola, *Pseudendoclonium* 88
fucicola, *Pseudopingsheimia* 88
fucicola, *Ulvella* 88
fucoides, *Polysiphonia* 64
Fucus 72, 73, 92, 93
fulvescens, *Capsosiphon* 83
Furcellaria 58
furcellata, *Fastigiaria* 58
furcigera, *Sphacelaria* 80
furfuracea, *Prasiola* 87
fusca, *Ulvaria* 91
fuscopurpurea, *Bangia* 52
fuscum, *Monostroma* 91
Giffordia 74
Gigartina 60
glaciale, *Lithothamnion* 59
glaucescens, *Cladophora* 85
globosa, *Haplospora* 74
globosum, *Microspongium* 77
globosum, *Myrionema* 77
Gloeocapsa 49
Gloeocapsopsis 49
Gomontia 86
Gomontia, phase 86
Goniotrichum 67

- Gononema 73
gracilis, Acrothrix 68, 93
gracilis, Cladophora 84
grandis, Acrosiphonia 92
granulatum, Callithamnion 92
granulosa, Giffordia 74
granulosa, Hincksia 74
granulosus, Ectocarpus 74
gregarium, Codium 91
grevillei, Monostroma 87
 Griffithsia 58, 92
griffithsianus, Stictyosiphon 81
gunneri, Ptilota 66
 Haemescharia 58
 Halicystis 85
 Halidrys 92
hallandicum, Acrochaetium 51
 Halochlorococcum 86
 Halosacchion 56
 Halosiphon 73
 Halurus 58
hamifera, Bonnemaisonia 53
 Haplospora 74
 Harveyella 58
 Hecatonema 77, 82
hennedyi, Haemescharia 58
 Herponema 92
heteroclada, Acrochaete 82
hiemalis, Ectocarpus 71
 Hildenbrandia 58, 59
 Himanthalia 74
 Hincksia 74
hincksiae, Ectocarpus 74
hincksiae, Giffordia 74
hincksiae, Hincksia 74
hippuroides, Dictyosiphon 71
hookeri, Aglaothamnion 51
hookeri, Callithamnion 51
 Hydrolapathum 56
 Hyella 49
hyperborea, Laminaria 76
hystrix, Acrosiphonia 83
implexa, Ulothrix 89
implexum, Rhizoclonium 88
inclusum, Chlorochytrium 89
incrustans, Lithophyllum 59
incurva, Acrosiphonia 82
inflatus f. *distichus*, Fucus 72
inflatus f. *edentatus*, Fucus 72
inflatus f. *linearis*, Fucus 72
inflatus, Fucus 72
intestinalis var. *compressa*, Enteromorpha 85
intestinalis var. *genuina*, Enteromorpha 85
intestinalis var. *micrococca*, Enteromorpha 83
intestinalis var. *minima*, Enteromorpha 83
intestinalis var. *prolifera*, Enteromorpha 85
intestinalis, Enteromorpha 85
intricata, Trailliella 53
irregularis, Erythrocladia 57
isogona, Ulothrix 89
 Isthmoplea 75
kernerii, Rhizoclonium 88
kjellmanii, Sorapion 80
 Kornmannia 87
laceratum, Nitophyllum 56
laciniata, Callophyllis 53
lactuca, Ulva 90
lacustris, Pleurocladia 78
laeve, Leptophyllum 63
laeve, Lithothamnion 63
laevigatum, Phymatolithon 63
 Laminaria 75, 76, 93, 94
laminariae, Litosiphon 77
laminariae, Melobesia 67
laminariae, Titanoderma 67
 Laminariocolax 76
lanosa, Polysiphonia 65
lanosa, Spongomorpha 89
latifolia, Punctaria 79
 Laurencia 62
 Leathesia 76
lenormandii, Lithothamnion 63
lenormandii, Phymatolithon 63
lepadicola, Polysiphonia 65
leptoderma, Kornmannia 87
 Leptolyngbya 49, 50
 Leptonema 76
 Leptonematella 76
 Leptophyllum 63
leucosticta, Porphyra 65
ligulata, Desmarestia 70
ligustica, Chaetomorpha 83
linearis, Porphyra 65
linum, Chaetomorpha 84
linza, Enteromorpha 85
 Lithoderma 79
 Lithophyllum 59, 67
 Lithothamnion 59, 63
 Litosiphon 77, 78
littoralis var. *varia*, Ectocarpus 92

- littoralis*, *Pilayella* 79
littoralis, *Pylaiella* 79
 Lomentaria 59
lomentaria, *Scytosiphon* 80
longicuris var. *faeroensis*, *Laminaria* 76, 93
longicuris, *Laminaria* 93, 94
lorea, *Himantalia* 74
lucifuga, *Pleurocladia* 78
lucifuga, *Waerniella* 78
lucifugus, *Ectocarpus* 78
lunbricalis, *Furcellaria* 57
lutea, *Lyngbya* 50
lycopodioides, *Rhodomela* 67
Lyngbya 50
macrocarpa, *Melobesia* 67
macrocarpum f. *faroensis*, *Dermatolithon* 67
macrocarpum f. *laminariae*, *Dermatolithon* 67
macrocarpum, *Dermatolithon* 67
maculiforme, *Petroderma* 78
mamillosa, *Gigartina* 60
marina, *Derbesia* 85
maritima, *Pilinia* 78
martensiana, *Lyngbya* 50
Mastocarpus 60
medusa, *Vaucheria* 82
Meiodiscus 60
melagonium, *Chaetomorpha* 84
Melobesia 60, 67
membranacea, *Audouinella* 52
membranacea, *Melobesia* 60
membranaceum, *Rhodochorton* 52
membranifolia, *Phyllophora* 63
Membranoptera 60
mertensii, *Tilopteris* 81
Microcoleus 50
Microspongium 77
Mikrosyphar 77
miniata f. *amplissima*, *Porphyra* 65
miniata, *Porphyra* 65
minima, *Blidingia* 83
mirabilis, *Harveyella* 58
mirabilis, *Urospora* 91
Monostroma 87, 88, 91
moorei, *Halochlorococcum* 86
multifida, *Cutleria* 70
muscooides, *Enteromorpha* 92
Myrionema 73, 77, 78, 79, 94
Myriotrichia 78
nana, *Sphacelaria* 80
neglectus, *Callocolax* 53
nigra, *Polysiphonia* 65
nigrescens, *Polysiphonia* 64
Nitophyllum 56
nodosum, *Ascophyllum* 69
nodulosum, *Ceramium* 54
obscura, *Ulvaria* 91
Odonthalia 61
officinalis, *Corallina* 56
olivacea, *Cyanocystis* 50
olivacea, *Dermocarpa* 50
olivaceus, *Sphaenosiphon* 50
operculata, *Acrochaete* 82
Ophidocladus 61, 93
orbiculatum, *Lithophyllum* 59
orcadensis, *Lomentaria* 59
Osmundea 62
Ostreobium 87
ovalis, *Halicystis* 85
ovalis, *Valonia* 85
ovata, *Giffordia* 74
ovata, *Hincksia* 74
pachyderma, *Vaucheria* 82
pallidum, *Ceramium* 54, 94
Palmaria 62
palmata, *Palmaria* 62
palmata, *Rhodymenia* 62
parasitica, *Polysiphonia* 65
parasitica, *Pterosiphonia* 65
parasiticum, *Phaeostroma* 78
parvula, *Aglaozonia* 70
pectinata, *Ptilota* 66
pellita, *Cruoria* 56
Pelvetia 78
penicilliforme, *Rhodochorton* 60
penicilliformis, *Urospora* 91
percursa, *Percursaria* 87
Percursaria 87
Petalonia 78
petrocelidis, *Codiolum* 89
Petroderma 78
Peyssonnelia 63
Phaeophila 82, 87
Phaeostroma 78, 94
phillipsii, *Epicladia* 86
Phloeospora 81
Phormidium 50
Phycodrys 63
Phyllitis 78
Phyllophora 55, 57, 63
Phymatolithon 55, 63

- Pilayella 79, 92
 piliferum, Bolbocoleon 83
 Pilinia 78
pinnatifida, *Laurencia* 62
 pinnatifida, *Osmundea* 62
 plantaginea, *Punctaria* 79
Plectonema 49, 50
Pleurocapsa 49
Pleurocladia 78
 plicata, *Ahnfeltia* 52
Plocamium 63
Plumaria 63
 plumosa, *Bryopsis* 83
plumosa, *Chaetopteris* 80
 plumosa, *Plumaria* 63
plumosa, *Ptilota* 66
 plumosa, *Sphacelaria* 80
plumula var. *boreale* f. *corallina*, *Antithamnion* 67
plumula var. *boreale*, *Antithamnion* 67
plumula var. *plumula*, *Antithamnion* 66
plumula, *Pterothamnion* 66
Pogotrichum 78
Polyides 64
polymorphum, *Lithothamnion* 63
polymorphum, *Phymatolithon* 63
polyrhiza, *Gomontia* 86
 polyrhiza, *Rosenvingiella* 89
polyschides, *Saccorhiza* 92
Polysiphonia 53, 64, 65
 polysiphoniae, *Choreocolax* 55
 polysiphoniae, *Mikrosyphar* 77
polyspermum, *Callithamnion* 51
Porphyra 65
Porphyropsis 65
Porphyrostromium 65
Prasiola 87, 89
 priceanum, *Aglaothamnion* 51
Pringsheimia 87
Pringsheimiella 87
 prolifera, *Enteromorpha* 85
Protectocarpus 78, 79
Protomonostroma 88
Pseudoclonium 88
 pseudoceranoïdes, *Phyllophora* 63
pseudoflacca, *Ulothrix* 89
Pseudolithoderma 79
Pseudopringsheimia 88
Pterosiphonia 65
Pterothamnion 66
Ptilota 63, 66
Punctaria 79
purpurea, *Audouinella* 66
 purpurea, *Porphyra* 65
 purpureum, *Cystoclonium* 56
 purpureum, *Phymatolithon* 63
 purpureum, *Rhodochorton* 66
pusilla, *Scagelia* 67
 pusillum, *Codiolum* 85
 pusillum, *Scagelothamnion* 67
 pustulatum var. *confine*, *Titanoderma* 67
 pustulatum var. *macrocarpa*, *Titanoderma* 67
 pustulatum var. *pustulatum*, *Titanoderma* 67
 pygmaea, *Cladophora* 84
Pylaiella 79, 92
pylaii, *Alaria* 68
 pylaisaei, *Scagelia* 67
 quekettii, *Ostreobium* 87
 radicans, *Sphacelaria* 80
Ralfsia 79, 81
 ramentacea, *Devaleraea* 56
ramentaceum, *Halosaccion* 56
 ramosa, *Cryptopleura* 56
ramulosa, *Enteromorpha* 92
 reinkei, *Syncoryne* 89
 repens, *Acrochaete* 82
 reptans, *Chilionema* 70
Rhizoclonium 88
 rhizophorum, *Ulonema* 81
Rhodochorton 51, 52, 60, 66
Rhododermis 67
Rhodomela 67
Rhodophyllis 57
Rhodophysema 67
Rhodymenia 62
 rigida, *Ulva* 90
 rigidula, *Sphacelaria* 80
 rimosa, *Pilinia* 78
 riparium, *Rhizoclonium* 88
Rivularia 50
rosea, *Chylocladia* 59
rosea, *Conchocelis* 56
rosea, *Hildenbrandia* 59
rosea, *Lomentaria* 59
Rosenvingiella 89
rothii, *Rhodochorton* 66
 rotundus, *Polyides* 64
 rubens, *Phycodrys* 63
rubens, *Phyllophora* 63
 rubra, *Hildenbrandia* 59
rubrum f. *prolifera* subf. *secundata*, *Ceramium* 54

- rubrum* f. *secundata* subf. *irregularis*, *Ceramium* 54
rubrum f. *secundata*, *Ceramium* 54
rubrum, *Ceramium* 54, 94
rupestris, *Cladophora* 84
saccharina, *Laminaria* 76, 94
Saccorhiza 92
sacculata, *Eugomontia* 86
Sahlingia 67
sanguinea, *Delesseria* 56
sanguineum, *Hydrolapathum* 56
saxicola, *Enteromorpha* 83
Scagelia 67
Scagelothamnion 67
Schizothrix 94
schousboei, *Dermocarpa* 49
schousboei, *Xenococcus* 49
scopulorum, *Aglaothamnion* 52
scopulorum, *Callithamnion* 52
scopulorum, *Calothrix* 49
scutata, *Pringsheimia* 87
scutata, *Pringsheimiella* 87
scutulata, *Elachista* 71
Scytosiphon 80
secundata, *Chantransia* 51
secundatum, *Acrochaetium* 51
secundatum, *Ceramium* 54, 94
seiriolana, *Audouinella* 51
seiriolanum, *Acrochaetium* 51
seiriolanum, *Rhodochorton* 51
sepositum, *Aglaothamnion* 52
sepositum, *Callithamnion* 52
sericea, *Cladophora* 85, 92
serrata, *Ptilota* 66
serratus, *Fucus* 73, 93
setacea, *Griffithsia* 58
setchellii, *Ulvella* 91
shuttleworthianum, *Ceramium* 55
siliculosus, *Ectocarpus* 71
siliquosa, *Halidrys* 92
simplex, *Enteromorpha* 86
simpliciusculus, *Ophidocladus* 61, 93
sinuosa, *Delesseria* 63
sonderi, *Acrosiphonia* 83
sonderi, *Spongomorpha* 83
Sorapion 80
speciosa, *Ulothrix* 89
speciosum, *Myrionema* 79
speciosus, *Protectocarpus* 79
spetsbergensis, *Audouinella* 30
spetsbergensis, *Meiodiscus* 60
Sphacelaria 80
Sphaenosiphon 50
sphaerophora, *Isthmoplea* 75
spinescens, *Pterothamnion* 66
spiralis, *Fucus* 73
Spirulina 50
spongiosus, *Cladostephus* 70
Spongomorpha 82, 83, 89
Spongonema 80
stellata, *Gigartina* 60
stellatus, *Mastocarpus* 60
Sterrocolax 52
Stictyosiphon 81
stilophorae, *Ectocarpus* 81
stilophorae, *Streblonema* 81
stipitata, *Prasiola* 87
Stragularia 81
strangulans, *Myrionema* 77
strangulans, *Symphyocarpus* 81
Streblonema 81, 94
Striaria 81, 93
stricta, *Polysiphonia* 65
Stylonema 67
subcutaneus, *Actinococcus* 55
subflaccida, *Ulothrix* 90
subfusca, *Rhodomela* 67
subintegra, *Sahlingia* 67
submarinum, *Pseudodoclonium* 88
subsalsa, *Spirulina* 50
subsimplex, *Vaucheria* 82
Sykidion 89
Symphyocarpus 81
Syncoryne 89
Tellamia 89
tenerrima, *Schizothrix* 94
tenerrimus, *Microcoleus* 94
tenuis, *Phymatolithon* 63
tenuissima, *Punctaria* 79
tenuissimum, *Ceramium* 93
terebrans, *Leptolyngbya* 50
terebrans, *Plectonema* 50
tetragonum, *Callithamnion* 53, 93
Tilopteris 81
Titanoderma 67
tomentosa, *Chorda* 73
tomentosoides, *Ectocarpus* 76
tomentosoides, *Laminariocolax* 76
tomentosum, *Spongonema* 80
tomentosus, *Ectocarpus* 80
tomentosus, *Halosiphon* 73

- torta*, *Enteromorpha* 86
tortilis, *Stictyosiphon* 81
tortuosa, *Chaetomorpha* 83
Trailliella 53
traillii, *Erythrodermis* 57
traillii, *Phyllophora* 57
truncata, *Phyllophora* 55
truncatus, *Coccotylus* 55
tuberculosa, *Chlorogloea* 94
turneri, *Asperococcus* 69
Ulonema 81
Ulothrix 89, 90
Ulva 90, 92
Ulvaria 91
Ulvella 88, 91
umbilicalis f. *laciniata*, *Porphyra* 65
umbilicalis f. *linearis*, *Porphyra* 65
umbilicalis, *Porphyra* 65
uncialis, *Spongomorpha* 89
undulatum, *Desmotrichum* 79
undulatum, *Monostroma* 88
undulatum, *Protomonostroma* 88
urceolata, *Polysiphonia* 65
Uronema 91
Urospora 91
Valonia 85
varia, *Pilayella* 92
varia, *Pylaiella* 92
Vaucheria 81, 82
velutinum, *Herponema* 92
velutinus, *Ectocarpus* 92
veprecula, *Rhodophyllis* 57
vernalis, *Spongomorpha* 89
verrucosa, *Ralfsia* 79
vesiculosus, *Fucus* 73
violacea, *Cyanocystis* 49
violacea, *Dermocarpa* 49
violacea, *Polysiphonia* 64
virescens, *Castagnea* 71
virescens, *Eudesme* 71
virgatula, *Audouinella* 51
virgatula, *Chantransia* 51
viridis, *Acrochaete* 82
viridis, *Desmarestia* 70
viridis, *Dichloria* 70
viridis, *Entocladia* 82
vulgare, *Myrionema* 77
Waerniella 78
wittrockii, *Acrochaete* 82
wittrockii, *Endoderma* 82
wittrockii, *Phaeophila* 82
wormskioldii, *Urospora* 91
Xenococcus 49
zosteriae, *Mikrosyphar* 77
zosterifolia, *Petalonia* 78
zosterifolius, *Phyllitis* 78