NOTES ON THE PLYMOUTH MARINE FLORA

ALGAL RECORDS FOR THE PLYMOUTH REGION

By Mary Parke

The greater number of the species given in this list are new records for the Plymouth region. Recent records for some rare species have also been included.

MYXOPHYCEAE

Family Chamaesiphonaceae

XENOCOCCUS SCHOUSBOEI Thuret

Wembury, Plymouth; on *Enteromorpha* at M.H.W.N.T.; gonidia in March.

Family Oscillatoriaceae

PLECTONEMA BATTERSII Gomont

Plymouth; M.H.W.N.T. zone on rock; March.

CHLOROPHYCEAE

Family Chlamydomonadaceae

BRACHIOMONAS SUBMARINA Bohlin

Rame Head; in small pool above E.H.W.S.T.; July.

Family Polyblepharidaceae

PYRAMIMONAS GROSSII Parke

In inshore waters off Plymouth during all months of the year.

Family Chlorodendraceae

PRASINOCLADUS LUBRICUS Kuckuck

Salcombe, Yealm, Wembury, Plymouth, Looe: M.H.W.N.T. downwards; frequent on stones in pools and on the edges of pools or holes in the rock, also found on shells dredged from 4 m. below M.L.W.S.T.; most frequent in winter and spring but can be found throughout the year; zoosporangia at all times of the year. Recorded from Plymouth (Batters, 1900), Isle of Man (Parke, 1933), Blackpool and Millport (Fritsch, 1949).

Family Chaetophoraceae

BOLBOCOLEON PILIFERUM Pringsheim

Wembury: growing on the frond of *Laminaria digitata*; zoosporangia in March.

JOURN. MAR. BIOL. ASSOC. VOL. XXIX, 1950

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EPICLADIA FLUSTRAE Reinke

Salcombe, Wembury, Plymouth, Looe: in *Dynamena pumila* growing on *Fucus serratus*; zoosporangia in spring and summer; the form with longer, more slender filaments (var. *phillipsii* of Batters) is usually found in *Alcyonidium hirsutum* growing on *Chondrus crispus* at E.L.W.S.T.; zoosporangia in March.

PHAEOPHYCEAE

Family Ectocarpaceae

GIFFORDIA SANDRIANA (Zanard.) Hamel

Plymouth; on raft near breakwater and in tanks at the Plymouth laboratory; unilocular and plurilocular sporangia in spring and summer.

Family Acinetosporaceae

HAPLOSPORA GLOBOSA Kjellman

Plymouth; growing on ropes hanging down from raft near the breakwater; monosporangia in May.

Family Myrionemataceae

ENDODICTYON INFESTANS Gran

Wembury; in *Alcyonidium hirsutum* growing on *Chondrus crispus* at E.L.W.S.T.; plurilocular sporangia in March.

ASCOCYCLUS SPHAEROPHORUS Sauvageau

Wembury; on the fronds of *Laminaria saccharina* growing at M.L.W.S.T.; unilocular sporangia in August. Recorded previously from Sidmouth.

Family Corynophlaeaceae

CORYNOPHLAEA CRISPA (Harv.) Kuckuck

Looe; on *Chondrus crispus* at M.L.W.N.T.; unilocular sporangia in June and July.

Family Chordariaceae

CASTAGNEA ZOSTERAE Thuret

Looe; on Zostera at M.L.W.S.T.; unilocular sporangia in July.

MESOGLOIA LANOSA Crouan

River Yealm; on sandy ground 1-2 m. below M.L.W.S.T.; unilocular sporangia in July.

MYRIOCLADIA LOVENII J. Agardh. (?)

Plymouth; on shells and small stones at a depth of 8–10 m. below M.L.W.S.T.; found only from late June to August; unilocular sporangia July and August. The material from Plymouth Sound agrees very closely with the description of

Agardh's Swedish material, but according to Kylin (1933) the plant found on the British coast is not the same as that found on the west coast of Sweden. The British plant may, therefore, have to be placed in a new species.

Family Stictyosiphonaceae

STICTYOSIPHON SORIFERUS (Reinke) Rosenvinge

Plymouth; on shells 6-10 m. below M.L.W.S.T.; plurilocular sporangia in July.

Family Striariaceae

MYRIOTRICHIA REPENS (Hauck) Karsakoff

Looe: on *Stilophora rhizodes* and *Scytosiphon lomentaria* at M.L.W.S.T.; plurilocular sporangia in July. Recorded previously from Wembury.

MYRIOTRICHIA DENSA Batters

Looe; on Zostera at M.L.W.S.T.; unilocular and plurilocular sporangia in July and August. Recorded for River Yealm in 1896.

Family Sphacelariaceae

SPHACELARIA FURCIGERA Kützing

Looe: on Cystoseira ericoides at M.L.W.S.T.; propagules in July.

Family Sporochnaceae

CARPOMITRA COSTATA (Stackhouse) Batters

Eddystone; trawled within 3-mile radius from a depth of 40-50 m. growing with *Dictyopteris membranacea*; unilocular sporangia in August and September. Recorded as growing in Plymouth Sound from 1870–1900, but it has not been obtained from this locality in recent years.

Family Desmarestiaceae

DESMARESTIA DUDRESNAYI Lamouroux

Eddystone; one young plant trawled within three-mile radius from a depth of 40-50 m. Previous records from this locality 1894-96.

Family Laminariaceae

LAMINARIA OCHROLEUCA De la Pylaie

Plymouth; on rock from M.L.W.S.T. down to depth of 8 m.; fertile from April to November–December. See Spooner, p. 261, for further records.

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RHODOPHYCEAE

Protoflorideae

Family Erythropeltidaceae

ERYTHROPELTIS DISCIGERA (Berth.) Schmitz var. FLUSTRAE Batters

Lannacombe, Wembury, Plymouth; on *Plumularia*, *Flustra* and *Alcyonidium* from M.L.W.S.T. downwards; gonidia in February and March.

Florideae

Family Chantransiaceae

ACROCHAETIUM ENDOZOICUM (Darbyshire) Batters

Wembury; in *Alcyonidium hirsutum* growing on *Chondrus crispus* at M.L.W.S.T.; monosporangia in March.

Family Naccariaceae

ATRACTOPHORA HYPNOIDES Crouan

Plymouth; on shells at a depth of 8–12 m. below M.L.W.S.T. growing with Dudresnaya verticillata, Stenogramma interruptum and Spondylothamnion multifidum; cystocarpia in July. Recorded previously from Exmouth.

Family Grateloupiaceae

GRATELOUPIA MINIMA Crouan

Dr M. A. Westbrook (Mrs D. P. Wilson) supplies the following. Only previous records Ilfracombe and Torquay (Batters, 1900). Wembury, Church reefs, February 1932; Mewstone reefs, September 1932. Gregarious on the edges of flat stones in shallow pools at L.W.S.T. The tiny plants resembled a mat of sporelings, in colour reddish brown rather than the violet-purple described by Newton (1931); they were unbranched excepting for an occasional dichotomizing tip. The internal structure resembled that of *G. filicina*. Most of the older parts of the February plants were covered with young tetrasporangia.

Family Squamariaceae

PEYSSONNELIA ATROPURPUREA Crouan

Wembury; on rock under ledges at E.L.W.S.T.; tetrasporangia in May.

Family Corallinaceae

LITHOPHYLLUM HAPALIDIOIDES (Crouan) Heydr. var. *confinis* Foslie Wembury; M.T.-L.W.N.T. on rock.

Family Gigartinaceae

GIGARTINA TEEDII Lamouroux

Salcombe; on mud-covered rocks at E.L.W.S.T. Recorded from Torbay area 1811–88.

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REFERENCES

BATTERS, E. A. L., 1900. New and critical British marine algae. Journ. Bot., Vol. XXXVIII, pp. 369-79.

FRITSCH, F. E., 1949. Contributions to our knowledge of British algae. *Hydrobiologia*, Vol. 1, pp. 115-25.

KYLIN, H., 1933. Ueber die Entwicklungsgeschichte der Phaeophyceen. Lunds Univ. Årsskr., N.F., Bd. 29, No. 7, pp. 1–102.

NEWTON, L., 1931. A handbook of British Seaweeds. London.

PARKE, M., 1933. Algological records for the Manx region. Rept. Marine Biol. Station, Port Erin, Isle of Man, No. 46, pp. 35–9.