

THE LIST OF SPECIES

Phylum PROTOZOA

Class **MASTIGOPHORA (FLAGELLATA)**

Sub-Class *ZOOMASTIGINA*

Order CHOANOFLAGELLATA

SALPINGOECA VAGINICOLA Stein [*Francé*, 1897, p. 235]

Tank in Plymouth Laboratory, on *Vaucheria*, very common, Aug. 1909 (J.S.D.)

SALPINGOECA URCEOLATA Kent, 1880-82, 1, p. 353.

Tank in Plymouth Laboratory (J.S.D.)

SALPINGOECA NAPIFORMIS Kent, 1880-82, 1, p. 355

Rock pool below Laboratory, on diatoms at base of *Fucus*, Aug. 1909, not common (J.S.D.)

SALPINGOECA CARDIFORMA, Ellis, 1929, p. 82

Obtained from Plymouth in March 1929 (Ellis, *loc. cit*)

PACHYSOECA CONVALLARIA (Stein) [*Kent*, 1880-82, 1, p. 357]

Tank in Plymouth Laboratory, on *Vaucheria* and on chain diatoms from rock pools, not plentiful, Aug. 1909 (J.S.D.)

STEPHANOECA AMPULLA (Kent) [*Kent*, 1880-82, 1, p. 349]

Tank in Plymouth Laboratory, on *Vaucheria*, not common; "young form" of Saville Kent seen Aug. 1909 (J.S.D.)

POLYOECA DUMOSA Dunkerly, 1910, p. 189

Tank in Plymouth Laboratory, Aug. 1909 (J.S.D.)

ACANTHOECA SPECTABILIS Ellis, 1929, p. 77

On marine algae from Plymouth, Dec. 1924 (Ellis, *loc. cit*)

Order BICOECIDIA

BICOECA MARIS Picken, 1941, p. 466

In a culture of *Uronema marinum* in peptone-sea water.. Material obtained from Rame Mud (L.E.R.P.)

Order PROTOMONADINA HEXAMITA sp.

In stomach and gut of *Gadus merlangus*, Nov. 1955 to May 1956 (E.R.N.)

PROTOZOA: SARCODINA

Order TRYPANOSOMIDIA

TRYPANOSOMA CALLIONYMI Brumpt and Lebailly, 1904, p. 613
In *Callionymus lyra*, Plymouth, May 1911 (H.H.)

Class SARCODINA (RHIZOPODA)

Order AMOEBINA

RHABDAMOEBA MARINA Dunkerly [1921*b*, p.220]

In a culture of *Oxyrrhis marina* in sea water with Allen and Nelson medium, Plymouth 1920 (J.S.D.)

Order FORAMINIFERA

The subjoined list of species is based upon records in two papers which have already been published on the Foraminifera of the Plymouth District.

1. E. Heron-Allen and A. Earland, "The Foraminifera of the Plymouth District", *J.R. micr. Soc.*, Series III, Vol. L, Part I, March 1930, pp. 46-84, and Part II, July 1930, pp. 161-99.
2. R. H. Worth in the 1904 edition of the Plymouth Fauna List, *J. mar. biol. Ass. U.K.*, Vol. 7, 1904, p.155.

The list has been brought up to date by the C. D. Ovey based mainly upon the classification given by F. Chapman and W.J. Parr (A)

Classification of the Foraminifera, *Proc. roy. Soc. Victoria*, Vol. 49 (N.S.), Pt. I 1936, pp. 139-51, and the nomenclature has been revised. It should, however, be noted that the list is based on collections of tests. For the majority there is no indication of the animals having been alive at the time of collection and consequently it is doubtful whether such records indicate the presence of living animals at the localities given. It should be noted that living animals of the genus *Lagena* are unknown (Jepps, 1956).

AN ASTERISK IN FRONT OF A NAME INDICATES THAT THE SPECIES WAS RECORDED BY BOTH AUTHORITIES, WHILE THE USE OF ITALICS SIGNIFIES THAT THE SPECIES WAS RECORDED BY WORTH, BUT NOT BY HERON-ALLEN AND EARLAND.

Full details of the localities worked will be found in the respective papers, which also contain diagnoses of new species and some *nomina nova*.

The Stations entered in the present list refer to Heron-Allen and Earland's records, the material having been obtained as follows:

- Station 1. (Label) "D netting. Inside Drake's Island 5 April 1929".
- Station 2. (Label) Dredging. "Eddystone bearing W. by N. 21 miles, about 30 fm. 10 April 1929."
- Station 3. Shore gathering. (Dr. N. B. Eales) Rum Bay, 9 April 1929.
- Station 4. Dredging. (Label) "Eddystone bearing E.S.E. 1½ miles. Fine mesh dredge. About 30-31½ fms. 9 April 1929."
- Station 5. Shore gatherings. (H.-A. and E.) Wembury Beach. 10 April 1929".
- Station 6. Dredging. Cawsand Bay. 3-5 fm. Sent to them in London by Dr. Marie V. Lebour. March 1929.
- Station 7. Shore, gathering. (Dr. J. H. Orton) Whitsand Bay. Made for them in October 1914 for the materials for their Monograph of the British Recent Foraminifera (B.R.F. Stn. 73).
- Station 8. A small quantity of mounted material, found by them among the material left by J. J. Lister.

The List cannot be regarded as final. There are still many species which a collector may reasonably expect.

For general purposes of illustration and identification references should be made to the Catalogue of Foraminifera by B. F. Ellis and A. Messina 1940 *et seq.* a copy of this is to be seen at the British Museum (Natural History).

PROTOZOA: SARCODINA
Family **Allogromiidae**

ALLOGROMIA OVIFORMIS (Dujardin) [Jepps, 1926, as Gromia]

Stns. 3, 5: a small type, possibly specifically distinct, in fair number from *Zostera* bed, Cawsand Bay (Jepps, *loc. cit.*, p. 703): in rock crevices and on undersides of stones in pools on the shore, Rum Bay and Wembury (D.P.W)

Family **Spirillinidae**

SPIRILLINA DENTICULATA Brady-Stn. 2.

SPIRILLINA GROOMI Chapman-Stn. 2.

*SPIRILLINA MARGARITIFERA Will.-Stn. 2.

SPIRILLINA OBCONICA Brady-Stn. 2.

SPIRILLINA OBCONICA var. CARINATA Halkyard-Stn. 2.

*SPIRILLINA VIVIPARA Ehrb.-Stns. 1, 2, 4, 6, 7.

SPIRILLINA VIVIPARA var. RUNIANA H.-A and E-Stn. 2.

SPIRILLINA WRIGHTI H.-A and E-Stn. 2.

*PATELLINA CORRUGATA Will. Stns. 1, 2, 4, 5, 6, 7.

Family **Lagenidae**

LAGENA ACUTA (Reuss)-Stns. 4, 6.

LAGENA ANNECTENS Burrows and Holland-Stns. 2, 4.

*LAGENA APICULATA (Reuss)-Stns. 2, 4, 7.

Lagena aspera Reuss

LAGENA BIANCAE (Seguenza)-Stns. 1, 2, 4, 5, 6, 7, 8.

LAGENA BICARINATA (Terq.)-Stns. 2, 5, 6.

Lagena botelliformis Br.

LAGENA CATENULATA Reuss-Stn. 6.

*LAGENA CLAVATA (d'Orb.)-Stns. 2, 4, 6, 8.

LAGENA COSTAVA (Will.)-Stns. 2, 6.

LAGENA CRENATA Parker and Jones-Stn. 4.

Lagena distoma Parker and Jones

LAGENA FALCATA Chaster-Stn. 2.

*LAGENA GLOBOSA (Montagu)-Stns. 1, 2, 4, 5, 6, 7, 8.

*LAGENA GRACILIS Will-Stn. 4.

*LAGENA GRACILLIMA (Seguenza)-Stns. 2, 4, 6.

- *LAGENA HEXAGONA (Will.)-Stns. 2, 3, 4, 6, 7, 8.
- Lagena hispida* Reuss
- LAGENA INAEQUILATERALIS J. Wright-Stns. 1, 2, 4.
- *LAGENA LAEVIS (Montagu)-Stns. 2, 4, 5, 6, 8.
- *LAGENA LAGENOIDES (Will.)-Stns. 2, 4.
- *LAGENA LINEATA (Will.)-Stns. 1, 2, 4, 7, 8.
- LAGENDA LUCIDA (Will.)-Stns. 1, 2, 4, 5, 6, 7, 8.
- LAGENA LYELLI (Seguenza)-Stns. 1, 4.
- LAGENA MALCOMSONI J. Wright-Stns. 2, 4.
- *LAGENA MARGINATA (Walker and Boys)-Stns. 2, 4, 5, 6, 7, 8.
- LAGENA MARGINATO-PERFORATA Seguenza-Stn. 7.
- LAGENA MELO (d'Orb.)-Stn. 6.
- LAGENA MILLETTI Chaster-Stns. 2, 4.
- LAGENA MONTAGUI Alcock-Stn. 4.
- *LAGENA ORBIGNYANA (Seguenza)-Stns. 1, 2, 4, 5, 6, 7, 8.
- *LAGENA ORNATA (Will.)-Stns. 2, 4.
- LAGENA PERLUCIDA (Montagu) Will-Stns. 2, 6, 8.
- *LAGENA QUADRATA (Will.)-Stns. 2, 4.
- LAGENA RETICULATA (Macgillivray)-Stns. 2, 7, 8.
- LAGENA RIZZAE (Seguenza)-Stn. 4.
- LAGENA SCHLICHTI (Sylvestri)-Stns. 2, 4.
- *LAGENA SEMISTRIATA Will.-Stns. 1, 2, 4, 6, 8.
- *LAGENA SQUAMOSA (Montagu)-Stns. 1, 2, 4, 5, 6, 7, 8.
- LAGENA STEWARTI J. Wright-Stn. 2.
- LAGENA STRIATA (d'Orb.)-Stns. 2, 4, 5, 6, 8.
- LAGENA STRIATO-PUNCTATA P. and J.-Stn. 6.
- *LAGENA SULCATA (W. and J.)-Stns. 2, 4, 6, 7, 8.
- *LAGENA SULCATA var. INTERRUPTA Will.-Stns. 1, 2, 5, 7.
- LAGENA WILLIAMSONI (Alcock)-Stns. 1, 2, 4, 5, 6, 7, 8.
- LENTICULINA GIBBA (d'Orb.)-Stns. 2, 6.
- *LENTICULINA ROTULATA Lam.-Stns. 1, 2, 4, 8.
- *PLANULARIA CREPIDULA (Fichtel and Moll)-Stns. 2, 4, 5, 7.

PROTOZOA: SARCODINA

Saracenaria italica Deifr.

VAGINULINA LEGUMEN (Linné)-Stns. 2, 5.

VAGINULINA LINEARIS (Montagu)-Stns. 2, 4.

VAGINULINOPSIS HAUERINA (d'Orb.)-Stns. 1, 2.

*DENTALINA COMMUNIS d'Orb.-Stns. 1, 2, 4, 6, 8.

Nodosaria calomorpha Reuss

NODOSARIA OBLIQUA (Linné)--Stn. 4.

NODOSARIA PYRULA d'Orb.-Stns. 2,4,6.

*NODOSARIA SCALARIS (Batsch)-Stns. 2, 4, 6, 8.

LINGULINA BILOCULI J. Wright-Stn. 4.

LINGULINA CARINATA d'Orb.-Stn. 4.

ORTHO CERINA BICAMERTA H.-A. and E-Stn. 4.

ROBULUS CULTRATUS (Montfort)-Stns. 2, 4, 6.

ROBULUS ORBICULARIS (d'Orb.)-Stn. 2.

Robulus vortex (F. and M.)

Amphicoryne falx (J. and P.)

Family **Polymorphinidae**

GUTTULINA COMMUNIS d'Orb.-Stns. 2, 4, 5, 7, 8.

GUTTULINA LACTEA (W. and J.)-Stns. 1, 2, 4, 5, 6, 8.

GUTTULINA ROTUNDA (Born.)-Stns. 2, 4.

GUTTULINA SPICAEFORMIS (Roemer)-Stn. 2.

GLOBULINA GIBBA d'Orb.-Stns. 2,4,6, 9.

GLOBULINA MYRISTIFORMIS (Will)-Stns. 1, 2, 4,

PSEUDOPOLYMORPHINA COMPRESSA (d'Orb.)-Stns. 2, 4, 6, 7, 8.

POLYMORPHINA SORORIA Reuss-Stns. 2, 4.

SIGMOMORPHINA WILLIAMSON (Terquem)-Stns. 1, 2, 4, 6, 8.

Family **Buliminidae**

*BULIMINA ELEGANTISSIMA (d'Orb.) -Stns. 1, 4, 6,

*BULIMINA ACULEATA d'Orb.-Stn. 4.

BULIMINA AFFINIS d'Orb.-Stn. 4.

*BULIMINA ELEGANS d'Orb.-Stns. 1. 2. 4. 5. 6. 7. 8.

Bulimina elegans var. *exilis* Brady

BULIMINA ELONGATA d'Orb.-Stns. 1, 2, 4, 5, 6, 8.

BULIMINA FUSIFORMIS Will.-Stns. 1, 2, 3, 4, 5, 6.

*BULIMINA MARGINATA d'Orb.-Stns. 1, 2, 4, 5, 6, 7, 8.

BULIMINA MINUTISSIMA Wright-Stn. 2.

BULIMINA OVATA d'Orb, Stn. 4.

BULIMINA PUPOIDES d'Orb.-Stns. 2, 4, 5, 6, 7.

BULIMINA SQUAMMIGERA d'Orb-Stns. 1, 2, 6, 7.

VIRGULINA SCHREIBERSIANA Czjzek-Stns. 1, 2, 4, 5.

VIRGULINA SUBSQUAMOSA Egger-Stns. 4, 8.

*BOLIVINA CANARIENSIS (Costa)-Stns. 4, 5, 6.

BOLIVINA BEYRICHI Reuss-Stns. 4, 5, 6.

*BOLIVINA DIFFORMIS (Will.)-Stns. 2, 4.

*BOLIVINA DILATATA Reuss-Stns. 1-7.

BOLIVINA INFLATA H.-A. and E-Stns. 2, 3, 4, 6, 7.

BOLIVINA BRITANNICA Macfadyen-Stns. 1, 2, 4, 6, 7.

BOLIVINA NOBILIS Hantken-Stns. 2, 4, 6, 7.

BOLIVINA PSEUDO-PLICATA H.-A. and E-Stns. 1, 2, 4, 5, 6, 7, 8.

*BOLIVINA PUNCTATA d'Orb.-Stns. 1, 2, 4, 5, 6, 7, 8.

*BOLIVINA ROBUSTA Brady-Stns. 1, 2, 4, 5.

*BOLIVINA TEXTILARIODES Reuss-Stns. 1, 2, 5.

BOLIVINA VARIABILIS (Will.)-Stns. 1, 2, 4, 5, 6, 7.

LOXOSTOMUM PORRECTUM (Brady) var. ARENACEUM H.-A. and E.-Stn. 2.

ANGULOGERINA ANGULOSA (Will.)-Stns. 1, 2, 4, 5, 6, 7.

DELOSINA COMPLEXA (Sidebottom)-Stns. 2, 4.

Family **Cassidulinidae**

*CASSIDULINA CRASSA d'Orb.-Stn 2, 4, 5, 6, 7.

CASSIDULINA LAEVIGATA. d'Orb.-Stns. 2, 7.

CASSIDULINA NITIDULA (Chaster)-Stns. 2, 6.

CASSIDULINA PULCHELLA d'Orb, Stn. 6.

CASSIDULINA SUB-GLOBOSA Brady-Stns. 1, 2,6, 7.

PROTOZOA: SARCODINA

Cassidulinoides bradyi (Norman)

Family **Rotaliidae**

Discorbis BACCATA (H.-A. and E.)-Stns. 2, 5, 7.

Discorbis bertheloti (d'Orb.)

Discorbis CHASTERI (H.-A and E.)-Stns 4,6.

*DISCORBIS GLOBULARIS (d'Orb.)-Stns. 1, 2, 4, 5, 6, 7, 8.

DISCORBIS IRREGULARIS (Rhumbler)-Stns. 1, 2.

DISCORBIS LAURA (H.-A. and E.)-Stn. 1.

DISCORBIS MAMILLA (Will.) -Stns. 1-5.

DISCORBIS MEDITERRANENSIS (d'Orb.)-Stns. 1-7.

DISCORBIS MILLETTI (J. Wright)-Stns. 2, 4.

*DISCORBIS ORBICULARIS (Terq.)-Stns. 1, 5, 7.

*DISCORBIS PARISIENSIS (d'Orb.)-Stn. 7.

DISCOPLANORBIS (d'Orb.)-Stns. 2, 6.

DISCORBIS PRAEGERI (H.-A. and E.)-Stns. 1-7.

DISCORBIS PUSTULATA TA (H.- A and E)-Stn, 2.

*DISCORBIS ROSACEA (d'Orb.)-Stns. 1-8.

DISCORBIS TABERNACULARIS (Brady)-Stn. 5.

DISCORBIS TUBERCULATA (Balkwill and Wright)-Stns. 2, 4, 6.

DISCORBIS TURBO (d'Orb.)-Stns. 2, 4, 6.

DISCORBIS VILARDEBOANA (d'Orb.)-Stns. 2, 6.

DISCORBIS WILLIAMSONI Chapman and Parr-Stns. 1,2, 4, 5, 6, 7.

DISCORBIS WRIGHTI (Brady)-Stns. 2,6.

LAMARCKINA HALIOTIDEA (H,-A, and E)-Stns. 1-7.

EPONIDES FRIGIDUS (Cushman)-Stns. 2,6.

Eponides repandus (F. and M.)

EPONIDES REPANDUS var. CONCAMERATUS (Montagu)-Stn. 2

*ROTALIA PERLUCIDA H.-A. and E.-Stn. 4.

*ROTALIA BECCARI (Linné)-Stns. 1-8.

MISSISSIPPINA CONCERNTRICA (P. and J.)-Stn. 2.

SIPHONINA TUBULOSA Cushman-Stns. 2, 4.

PROTOZOA: SARCODINA

CANCRIS AURICULA (F. and M.)-Stn. 4.

CIBICIDES AKNERIANA (d'Orb.)-Stns. 1, 2, 3.

*CIBICIDES LOBATULUS (W. and J.)-Stns. 1-8.

CIBICIDES PYGMAEUS (Hantk.)-Stn. 2.

CIBICIDES REFULGENS (Montfort)-Stns. 2, 3, 5, 6, 7.

CIBICIDES UNGERIANUS (d'Orb.)-Stns. 1, 2, 3, 5, 7.

CIBICIDELLA VARIABILIS (d'Orb.)-Stns. 4, 5, 8.

*PLANORBULINA MEDITERRANENSIS d'Orb.-Stns. 1-8.

ACERVULINA INHAERENS Schultze-Stns. 2, 5, 7.

Family **Globigerinidae**

*GLOBIGERINA BULLOIDES d'Orb.-Stns. 2, 4, 6.

GLOBIGERINA DUTERTREI d'Orb.-Stn. 4.

Globigerina inflata d'Orb.

GLOBIGERINOIDESES RUBRA var.- ELEVATA d'Orb. .-Stns. 2, 4.

Orbulina universa d'Orb.

Sphaeroidinella dehiscens (P. and L)

CANDEINA NITIDA d'Orb.-Stn. 2.

Family **Globorotaliidae**

*GLOBOROTALIA MENARDII d'Orb.-Stn. 4.

GLOBOROTALIA PUNCTULATA (d'Orb.)-Stns. 2, 4.

GLOBOROTALIA SCITULA (Brady)-Stns. 2, 4.

Family **Elphidiidae**

NONION ASTERIZANS (F. and M.)-Stns. 1, 2, 4, 6, 7.

NONION BOUEANUS (d'Orb.)-Stns. 1, 6.

*NONION DEPRESSULUS (W and J.)-Stns. 1-8.

NONION PAUPERATUS (B. and W.)-Stns. 2, 4, 5, 7.

Nonion scapha (F. and M.)

*NONION STELLIGERUS (d'Orb.)-Stns. 2-4.

*NONION UMBILICATULUS (W. and J.)-Stn 2.

NONIONELLA AURICULA H.-A. and E.-Stn. 4.

PROTOZOA: SARCODINA

*NONIONELLA TURGIDA (Will.)-Stn 2.

*ELPHIDIUM ADVENUM (Cushman)-Stn. 2.

ELPHIDIUM CRISPUM (Linné) (*Jepps*, 1942, as *Polystomella*)

The best known and most frequently seen living foraminiferan in the Plymouth district. Stns. 1-8: *Jepps (loc. cit., p. 612)* cites Drake's Island ground as yielding the richest material; she also obtained material from White Patch., from which since 1946 the best collections of this species have regularly been made (D.P.W., T.R.T.)

ELPHIDIUM FABIA (F. and M.)-Stns. 2, 4.

*ELPHIDIUM INCERTUM (Will.)-Stns. 1 -8.

*ELPHIDIUM MACELLUM (F. and M.) var. GRANULOSUM Sidebottom-Stns. 1, 2, 3,5,6,7.

ELPHIDIUM SELSEYENSE (H.-A. and E.)-Stns. 1, 2, 5, 6, 7.

Elphidiella arctica (P. and J.)

Family **Ammodiscidae**

*AMMODISCUS INCERTUS (d'Orb.)-Stn. 2.

GLOMOSPIRA CHAROIDES (J. and P.)-Stn. 2.

*GLOMOSPIRA GORDIALIS (J. and P.)-Stns. 1, 2, 5.

TOLYPAMMINA VAGANS (Brady)-Stn. 2.

Family **Hyperamminidae**

HYPERAMMINA ELONGATA Brady-Stn. 2.

HYPERAMMINA NODULOSA (Brady)-Stn. 2.

JACULELLA ACUTA Brady-Stn. 2.

HIPPOCREPINA PUSILLA H.-A. and E-Stn, 2.

Haliphysema tumanowiczi Bowerbank

Family **Saccamminidae**

PSAMMOSPHAERA FUSCA Schulze-Stn. 2.

PROTEONINA DIFFLUGIFORMIS (Brady)-Stn. 2.

PROTEONINA FUSIFORMIS Will.-Stns. 2, 4.

PROTEONINA PSEUDOSPIRALIS Will.-Stns. 4, 5.

WEBBINELLA HEMISPHAERICA (P, J. and B.)-Stns. 2,4.

Family **Rhizamminidae**

BATHYSIPHON ARGENTEUS H.-A. and E.-Stn. 4.

PROTOZOA, SARCODINA

Family **Astrorhizidae**

ASTRORHIZA LIMICOLA Sandahl [Brady, 1884, p. 231]

In Agassiz hauls, Rame Head to Eddystone (P. G. C.) This foraminifer is living in this locality; approximately one hundred were collected from each of two hauls, July 1956 (R.H.H.)

CRITHIONINA MAMILLA Goös-Stn. 1.

IRIDIA DIAPHANA H.-A. and E.-Stns. 4, 5.

Family **Ophthalmidiidae**

Cornuspira foliacea (Philippi)

*CORNUSPIRA INVOLVENS (Reuss)- Stns. 1, 2, 4, 5, 6, 7.

CORNUSPIRA SELSEYENSIS H.- A, and E.- Stns. 2, 4, 5, 6, 7.

CORNUSPIRA DIFFUSA (H.-A. and E.)-Stn. 6.

OPHTHALMIDIUM BALKWILLI Macfadyen-Stn. 2.

*SPIROPHTHALMIDIUM ACUTIMARGO (Brady)-Stns. 2, 4.

PLANISPIRINA CLIARENSIS H.-A. and E.-Stn, 7.

NUBECULARIA LUCIFUGA Defrance-Stn. 2.

Family **Miliolidae**

QUINQUELOCULINA sp. (young) -Stns. 1-5.

Quinqueloculina agglutinans d'Orb.

QUINQUELOCULINA AGUINA. Terq.-Stn. 6,

QUINQUELOCULINA ANGULATA (Williamson)-Stns. 2, 4, 5, 6, 7.

QUINQUELOCULINA BADENENSIS d'Orb. -Stn. 7.

*QUINQUELOCULINA BICORNIS (W. and J.) -Stns. 1, 2, 4, 5, 7, 8.

Quinqueloculina bicornis var. *elegans* (Will.)

*QUINQUELOCULINA BOUEANA d'Orb.-Stns. 1, 2, 4, 5.

QUINQUELOCULINA CANDEIANA d'Orb.-Stn. 4.

QUINQUELOCULINA CLIARENSIS (H.-A. and E.)-Stn. 7.

QUINQUELOCULINA CONTORTA d'Orb.-Stns. 1-7.

QUINQUELOCULINA DISPARILIS d'Orb.-Stn 1.

QUINQUELOCULINA DUNKERQUIANA (H.-A. and, E.)--Stns. 2, 3, 4.

QUINQUELOCULINA FUSCA d'Orb.-Stn 3.

QUINQUELOCULINA LAMARCKIANA d'Orb.-Stns. 1, 3, 5, 6, 7, 8.

PROTOZOA: SARCODINA

- QUINQUELOCULINA PULCHELLA d'Orb.-Stns. 1-4.
- QUINQUELOCULINA PYGMAEA Reuss-Stns. 1, 2, 6, 7.
- QUINQUELOCULINA SCHLUMBERGERI (H,-A, and E,-)Stns. 2-7.
- QUINQUELOCULINA SCLEROTICA Karrer-Stns. 2, 4, 5, 6, 7, 8.
- QUINQUELOCULINA SEMINUDA Reuss-Stns. 2, 4, 5, 7, 8.
- QUINQUELOCULINA SEMINULUM (Linné)-Stns. 1-8.
- QUINQUELOCULINA UNDULATA d'Orb.-Stn. 2, 4, 5.
- QUINQUELOCULINA VULGARIS d'Orb.-Stns. 1, 3,5.
- MASSILINA BOSCIANA (d'Orb)-Stns. 1-8.
- *MASSILINA SECANS (d'Orb.)-Stns. 1, 3, 5, 6, 7, 8.
- MASSILINA SECANS var. DENTICULATA Costa-Stns. 1, 5.
- MASSILINA SECANS var. TENUISTRIATA Earland.-Stns. 2, 3.
- SPIROLOCULINA CANALICULATA d'Orb.-Stns. 1, 4, 5.
- SPIROLOCULINA DORSATA Reuss-Stns. 2, 5.
- *SPIROLOCULINA EXCAVATA d'Orb.-Stns. 2, 4, 5, 7, 8.
- *SPIROLOCULINA LIMBATA d'Orb.-Stns. 2, 4.
- *SPIROLOCULINA PLANULATA (Lam.)-Stns. 2, 4, 5.
- Spiroloculina tenuiseptata* Brady
- SIGMOILINA DILATATA (d'Orb.)-Stns. 2, 5, 6.
- MILIOLINELLA OBLONGA (Montagu)-Stns. 1-8.
- MILIOLINELLA OBLONGA var. LATA (Terquem)-Stns. 1, 2, 4, 5, 6, 7, 8.
- MILIOLINELLA SUBROTUNDA (Montagu)-Stns. 1-8.
- Hauerina fragilissima* (Brady)
- TRIOLOCULINA BROGNIARTI (d'Orb.)-Stns. 2, 4, 5, 6, 7.
- *TRIOLOCULINA CIRCULARS Born.-Stns. 1, 2, 3, 4, 6, 7, 8.
- TRIOLOCULINA LABIOSA d'Orb.-Stns. 2, 8.
- *TRIOLOCULINA NITIDA d'Orb.-Stn. 8.
- TRIOLOCULINA TRICARINATA d'Orb.)-Stns. 2, 5, 6, 7, 8.
- *TRIOLOCULINA TRIGONULA (Lam.)-Stns. 1, 3, 5.
- TRIOLOCULINA VALVULARIS Reuss-Stns. 4, 7.
- *PYRGO DEPRESSA (d'Orb.)-Stns. 2, 4, 5, 7, 8.
- *PYRGO ELONGATA (d'Orb.)-Stns. 2, 4, 6.

PYRGO ELONGATA var. QUADRATA (H.-A. and E)-Stn. 2.

PYRGO GLOBULUS (Bornemann)-Stn. 9.

Pyrgo ringens (Lam.)

Pyrgo ringens var. *patagonica* (d'Orb.)

Pyrgo tubulosa (Costa)

Family **Lituolidae**

*HAPLOPHRAGMOIDES CANARIENSIS (d'Orb)-Stns. 1, 2, 4, 5, 6, 7, 8.

HAPLOPHRAGMOIDES CANARIENSIS Var. VARIABILIS (H.-A. and E.)-Stn. 2.

Ammobaculites fontinensis (Terq.)

AMMOSCALARIA RUNIANA (H.-A. and E.)-Stn. 6

PLACOPSILINA sp.-Stn. 1.

Family **Reophacidae**

REOPHAX MONILIFORME Siddall-Stns. 1, 2, 4, 5.

REOPHAX SCORPIURUS Montfort-Stn. 2.

REOPHAX SCOTTI Chaster-Stns. 1, 6.

Family **Textulariidae**

*TEXTULARIA AGGLUTINANS d'Orb, Stn. 2.

Textularia agglutinans var. *porrecta* Brady

TEXTULARIA CONICA d'Orb.-Stns. 1-8.

*TEXTULARIA GRAMEN d'Orb -Stns. 1, 2, 3, 4, 5.

*TEXTULARIA SAGITTULA Defr.-Stns. 1, 2, 4.

*TEXTULARIA TROCHUS d'Orb.-Stn. 2.

TEXTULARIA TURRIS d'Orb.-Stn. 4.

Family **Trochamminidae**

*TROCHAMMINA INFLATA (Montagu)-Stn. 2.

TROCHAMMINA INFLATA var. MACRESCENS Brady-Stn. 7.

*TROCHAMMINA OCHRACEA (Will.)-Stns. 1, 2, 4, 5, 6, 7.

TROCHAMMINA ROTALIFORMIS J. Wright-Stns. 2, 4.

TROCHAMMINA SQUAMATA J. and P-Stns. 2, 4, 6, 7.

REMANEICA PLICATA (Terq.)-Stns. 2, 4.

*AMMOGLOBIGERINA GLOBIGERINIFORMIS (P. and J.)-Stns. 2, 4.

PROTOZOA: SPOROZOA

Family **Valvulinidae**

VALVULINA FUSCA (Will.)-Stn. 2.

EGGERELLA PUSILLA (Goës)-Stn. 4.

DOROTHIA FILIFORMIS (Berthelin)-Stns. 1, 2, 4, 6, 7.

GOËSELLA OBSCURA (Chaster)-Stns. 1, 2, 4, 6, 7.

Family **Verneuilinidae**

*VERNEUILINA POLYSTROPHA (Reuss)-Stns. 1-8.

GAUDRYINA RUDIS Wright-Stn. 2.

Order **ACANTHARIA**

ACANTHOCHIASMA FUSIFORME Haeckel [*Popofsky*, 1905, p. 49]

Occasionally from the Sound and outside; in centrifuged water, spring to autumn, Sept., Nov. 1915, March, Sept. 1916; in masses, clinging together in spring and autumn (M.V.L.)

Order **RADIOLARIA**

PLAGIACANTHA ARACHNOIDES Claparède [*Schröder*, 1914, p. 78]

Tow-nets off Penlee, 24.11.22, a few specimens (M.V.L.)

LITHOMELISSA SETOSA Jorgensen [*Schröder*, 1914, p. 101]

Occasionally from inside and outside the Sound, chiefly in autumn, sometimes spring, Nov., Dec. 1915, April, May 1916 (M.V.L.): Nov., Dec. 1917 (G.E.W.)

AMPHIMELISSA SETOSA (Cleve) [*Schröder*, 1914, p. 106]

Occasionally inside and outside the Sound, Nov., Dec. 1915, May 1916 (M.V.L.)

Order **HELIOZOA**

OXNERELLA MARITIMA Dobell, 1917, p. 535

Queen's Grounds, May 1920; good number on Sycon and Leuconia, Millbay Docks, June 1920, very common on Sycon (J.H.O.)

Class **SPOROZOA**Sub-Class *TELOSPORIDIA*Order **GREGARINAE**

GONOSPORA MINCHINI Goodrich and Pixell Goodrich, 1920, p. 157

In ova of *Arenicola ecaudata*

GONOSPORA ARENICOLAE (Cunningham, 1907, p. 199, as *Kalpidorhynchus*)

Very common in coelom of *Arenicola ecaudata* (Pixell Goodrich, 1916, p. 213)

PROTOZOA: SPOROZOA

GONOSPORA IRREGULARIS Minchin, 1893, p. 291

Blood vessels of *Holothuria forskali* (Woodcock, 1906, p. 1)

GONOSPORA VARIA Léger, 1892, p. 157

Coelom of *Audouinia tentaculata* (Hentschel, 1926, p. 137)

LITHOCYSTIS SCHNEIDERI Giard [*Pixell Goodrich*, 1915a, p. 96]

Coelomic cavity of all *Echinocardium cordatum* and *Spatangus purpureus* (H.P.G.)

LITHOCYSTIS FOLIACEA Pixell Goodrich, 1915a, p. 96

In *Echinocardium cordatum* (H.P.G.)

LITHOCYSTIS MICROSPORA Pixell Goodrich, 1915a, p. 96

In *Spatangus purpureus* (H.P.G.)

LITHOCYSTIS MINCHINI Woodcock, 1906, p. 20

Coelomic wall of *Cucumaria saxicola*, about 40 per cent (Pixell Goodrich, 1929, p. 280)

LITHOCYSTIS CUCUMARIAE Pixell Goodrich, 1929, p. 276

Respiratory trees of *Cucumaria saxicola*, 28 per cent (H.P.G.)

POLYRHABDINA SPIONIS Mingazzini var. BIFURCATA Mackinnon and Ray, 1931a, p. 444

In the gut of *Scolecopsis fuliginosa* (Am. and H.N.R.)

LECYTHION THALASSEMATAE Mackinnon and Ray, 1931a, p. 453

In the gut of *Thalassema neptuni* (D.M. and H.N.R.)

HYPERIDION THALASSEMATAE Mackinnon and Ray, 1931b, p. 467

In the gut of *Thalassema neptuni* (D.M. and H.N.R.)

HENTSCHELIA THALASSEMATAE Mackinnon and Ray, 1931a, p. 451

In the gut of *Thalassema neptuni* (D.M. and H.N.R.)

UROSPORA ECHINOCARDII Pixell Goodrich, 1915a, p. 97

Coelomic cavity of *Echinocardium* and *Spatangus* (H.P.G.)

SELENOCYSTIS FOLIATA (Ray, 1930a, p. 382, as Selenidium)

About 70 per cent. of the Plymouth *Scolecopsis fuliginosa* infected in the gut (H.N.R.): 88 per cent infected in hinder end of gut (Dibb, 1938, p. 296)

SELENIDIUM CAULLERYI Brasil, 1907, p. 370

In the gut of *Protula tubularia* (Ray, 1930a, p. 374)

SELENIDIUM MESNILI Brasil, 1907, p. 370

In the gut of *Myxicola infundibulum* (Ray, 1930a, p. 377): sporogony (Reed, 1933, p. 402)

SELENIDIUM SPIONIS (Kölliker) [Ray, 1930a, p. 381]

About 97 per cent of *Scolecopsis fuliginosa* from Rum Bay are infected in the gut (H.N.R.)

SELENIDIUM PLICATUM Ray, 1930a, p. 387

In the gut of *Cirratulus cirratus* (H.N.R.)

PROTOZOA: SPOROZOA

SELENIDIUM BRANCHIOMMATIS Ray, 1930a, p. 388
In the gut of *Branchiomma vesiculosum* (H.N.R.)

SELENIDIUM ALLENI Ray, 1930a, P. 399
In the gut of *Branchiomma vesiculosum* (H.N.R.)

SELENIDIUM SABELLAE (Lankaster, 1863, p. 91)
In the gut of *Sabella pavonina* (Ray, 1930a, P. 389)

SELENIDIUM BRASILI Ray, 1930a, p. 390
In the gut of *Pomatoceros triqueter* (H.N.R.)

SELENIDIUM AXIFERENS Fowell, 1936, p. 17
In the gut of *Polydora flava*

SELENIDIUM TERESELLAE (Kölliker) [Ray, 1930a, p. 391]
In the gut of *Terebella lapidaria* (H.N.R.)

SELENIDIUM sp.
In the gut of *Golfingia minuta* and also *Pomatoceros* and many other polychaetes (H.P.G.)

Order COCCIDIOMORPHA

Sub-Order COCCIDIA

AGGREGATA EBERTHI Labbé, 1896, p. 535
Sporogony in gut of an all *sepia officinalis* (Pixell Goodrich, 1914, p. 171)

MEROCYSTIS KATHAE Dakin, 1911, p. 147
Parasitic in the kidney of *Buccinum undatum* (bought in Plymouth market), July 1919 (P.D.): sporogony (Patten, 1935, p. 399)

CRYSTALLOPORA CRYSTALLOIDES Thélohan, 1893 p. 247 [Labbé, 1896, p. 554, 1899, P. 63]
Parasitic in the pyloric coeca of *Onos tricirratu*s,* Wembury Bay, 16.7.1919 (P.D.)

OVIVORA THALASSEMAE Lankester, 1881, p. 350
In *Thalassema neptuni*, schizogony and sporogony in eggs (Mackinnon and Ray, 1929, p. 877)

PSEUDOKLOSSIA CHITONIS Debaisieux, 1919, p. 1401
In *Acanthochitona crinita* (Pennant) (= *Acanthochites fascicularis*) near the Laboratory, nearly all -infected, July (Debaisieux, 1922)

PSEUDOKLOSSIA -PATELLAE Debaisieux, 1919, p. 1402
In *Patella vulgata* Rum Bay, 50 per cent infected slightly, June-Oct. 1919 (Debaisieux, 1922)

DORISIELLA SCOLELEPIDIS Ray, 1930b, p. 471
In *Scolelepis fuliginosa* gut

PIRIDIDIUM SOCIABILE Patten 1936, p. 502
In foot of *Buccinum undatum*, affinities uncertain

* See under *Gaidropsarus* P. 392.

PROTOZOA: SPOROZOA

DOBELLIA BINUCLEATA Ikeda, 1914, p. 206

In *Golfingia minuta* gut

EIMERIA sp. No. 1

In gut of *Gadus merlangus*, Oct. 1955 (E.R.N.)

EIMERIA sp. No. 2

In gut of *Gadus merlangus*, March 1956 (E.R.N.)

EIMERIA Sp.

In liver and gall bladder of *Callionymus lyra*, Oct. 1955 to May 1956 (E.R.N.)

Sub-Order HAEMOSPORIDIA

HAEMOGREGARINA SIMONDI Laveran and Mesnil, 1901, p. 572

In *Solea solea* May 1911, Aug.-Sept. 1912 (Henry, 1913, p. 570)

HAEMOGREGARINA QUADRIGEMINA Brumpt and Lebailly, 1904, p. 613

In *Callionymus lyra*, May 1911 (Henry, 1913, p. 571): *in blood of *Callionymus lyra*, Aug. 1955 (ERN.)

HAEMOGREGARINA COTTI Brumpt and Lebailly, 1904, p. 613

In *Coitus bubalis*, May 1911, Aug.-Sept. 1912 (Henry, 1913, p. 571)

HAEMOGREGARINA BIGEMINA Laveran and Mesnil, 1901, p. 572

In *Blennius pholis*, May 1911, Aug.-Sept. 1912 (Henry, 1913, p. 571)

HAEMOGREGARINA POLYPARTITA Neumann, 1909

In *Gobius paganellus*, May 1911, Aug.-Sept. 1912 (Henry, 1913, p. 571)

HAEMOGREGARINA PLATESSA Lebailly, 1904, p. 576

In *Pleuronectes platessa*, Aug.-Sept. 1911 (Henry, 1913, p. 572): in blood of *Microstomus kitt*, Sept. 1955 to May 1956 (E.R.N.)

HAEMOGREGARINA CLAVATA Neumann, 1909

In *Solea lutea*, Aug.-Sept. 1911 (Henry, 1913, p. 572)

Sub-Class NEOSPORIDIA

Order CNIDOSPORIDIA

Sub-Order MYXOSPORIDIA

MYXIDIUM INCURVATUM Thélohan [*Thélohan*, 1894, p. 341]

In *Blennius pholis* and *B. ocellaris*, *Scophthalmus maximus*, *Callionymus lyra*, *Arnaglossus laterna*, *Platichthys flesus* (Dunkerly, 1921a): in gall bladder of *Callionymus lyra*, Aug. 1955 to May 1956; *Gadus merlangus*, Jan. 1956 (E.R.N.)

MYXIDIUM SPHERICUM Thélohan, 1894, p. 341

In *Gadus merlangus*, *G. minutus* (Dunkerly, 1921a); in gall bladder of *Gadus merlangus*, Aug. 1955 to May 1956 (E.R.N.)

PROTOZOA: SPOROZOA

MYXIDIUM INTERMEDIUM Dunkerly, 1921a, p. 331

In gall bladder of *Platichthys flesus*

MYXIDIUM sp.

In gall bladder of *Mola mola*, July 1955 (E.R.N.)

MYXIDIUM sp.

In gall bladder of *Microstomus kitt*, Sept. 1955 to May 1956 (E.R.N.)

CERATOMYXA ARCUATA Thélohan, 1894, p. 335

In *Blennius ocellaris*, *Callionymus lyra*, *Gadus merlangus*, *Arnoglossus laterna*, *Morone labrax* (Dunkerly, 1921a): in gall bladder of *Callionymus lyra*, *Gadus merlangus*, Sept. 1955 to May 1956 (E.R.N.)

CERATOMYXA LATA Dunkerly, 1921a, p. 330

Gall bladder of *Capros aper* and *Microstomus kitt*: in gall bladder of *Microstomus kitt*, Aug. 1955 to May 1956 (E.R.N.)

CERATOMYXA TRUNCATA Thélohan, 1894, p. 336

In *Sardina pilchardus* (Dunkerly, 1921a)

CERATOMYXA DUBIA Dunkerly, 1921a, p. 331

In gall bladder of *Cottus bubalis*

CERATOMYXA APPENDICULATA Thélohan, [Labbé, 1899, p. 91]

In gall bladder of *Lophius piscatorius*, Eddystone, 10.7.19 (P.D.): in *Lophius piscatorius* (Dunkerly, 1921a) (1956, E.R.N.)

CERATOMYXA SPHAERULOSA Thélohan, 1894, p. 334

In *Limanda limanda* (Dunkerly, 1921a)

CERATOMYXA sp.

In gall bladder of *Phrynorhombus regius*, Jan. 1956 (E.R.N.)

CERATOMYXA sp.

In gall bladder of *Callionymus lyra*, Sept. 1955 to May 1956 (E.R.N.)

CERATOMYXA sp.

In urinary bladder of *Callionymus lyra*, Oct. 1955 (E.R.N.)

CERATOMYXA AWERINZEWI Reichenow, 1929

In gall bladder of *Microstomus kitt*, Sept. 1955 to May 1956 (E.R.N.)

COCCOMYXA MOROVI Léger and Hesse, 1907, p. 85

In *Sardina pilchardus* (Dunkerly, 1921a)

CHLOROMYXUM QUADRATUM Thélohan, 1894, p. 347

In muscles of *Cottus bubalis* (Dunkerly, 1921a)

CHLOROMYXUM LEYDIGI Mingazzini [Thélohan, 1894, p. 3451]

In *Mustelus mustelus*, *Scyliorhinus stellaris* and *Squalus acanthias*, (Dunkerly, 1921a)

SPHAEROMYXA LONGA Dunkerly, 1921a, p. 332

In gall bladder of *Gadus minutus*

PROTOZOA: SPOROZOA

SPHAEROMYXA BALBIANI Thélohan [*Thélohan*, 1894, p. 342]
In *Onos mustelus* (Dunkerly, 1921*a*)

SPHAEROMYXA OVATA Dunkerly, 1921*a*, p. 332
In gall bladder of *Onos mustelus* (Dunkerly, 1925, p. 200)

LEPTOTHECA VIKRAMI Tripathi, 1948, p. 112
In *Zeus faber*, gall bladder

LEPTOTHECA INFORMIS Auerbach, 1910, p. 767
In gall bladder of *Gadus merlangus*, Sept. 1955 to May 1956 (E.R.N.)

SINUOLINEA REBAE Tripathi, 1948, p. 111
In *Solea solea*, urinary bladder

ZSCHOKKELLA RUSSELLI Tripathi, 1948, p. 112
In *Onos tricirratus*,* gall bladder

ZSCHOKKELLA STURIONIS Tripathi, 1948, p. 114
In *Acipenser sturio*, gall bladder

MYXOBOLUS AEGLEIFINI Auerbach, 1906, p. 568
In eye of *Gadus merlangus*, Jan. 1956 (E.R.N.)

Sub-Order MICROSPORIDIA

GLUGEIA LOPHII Doflein, 1898, p. 290
In nervous system of *Lophius piscatorius*, Eddystone, 10.7.19 (Dunkerly, 1921*a*)

NOSEMA OVOIDEUM (Thélohan, 1894, p. 357, as Glugea)
In *Onos tricirratus*, * liver (Labbé, 1899, p. 106): Wembury Bay, 16.7.19 (P.D.)

PLISTOPHORA TYPICALIS Gurley, 1893, p. 407
In liver of *Cottus bubalis* (Dunkerly, 1921*a*)

THELOHANIA OCTOSPORA Henneguy and Thélohan, 1892
Spores in muscles of *Palaemon serratus*, Sound and Whitsand Bay, Oct. 1931 (D.A.); from Cawsand region about 1934; G.R.F., 1946-50, found a few other infected specimens of the prawn at Paignton, Rum Bay and Torpoint; only the spore stage was found in these, making the muscle fibres opaque white; early stages are likely to be in the blood, causing a slight milkiness (H.P.G.)

THELOHANIA sp. [see *Pixell Goodrich*, 1920, p. 17]
Only one specimen of the prawn, said to be *Palaemon serratus*, found in a Plymouth tank 1920, has so far (1952) been found infected and nothing could be discovered as to its origin (H.P.G.)

THELOHANIA MACROCYSTIS Gurley [*Kudo*, 1924, p. 136]
Large fusiform sporocysts in *Processa canaliculata* Leach, Stoke Point, Eddystone, 6.1.33 (D.A.)

* See under *Gaidropsarus*, p. 392.

PROTOZOA: CILIOPHORA

MICROSPORIDIA SP.

In tissues of *Pinnotheres pisum*, River Yealm, about 42 per cent. infected in 1922 (H.P.G.): at Saltash about 16 per cent. in 1928 (D.A.)

Sub-order ACTINOMYXIDIA

TETRACTINOMYXON INTERMEDIUM Ikeda, 1912, p. 248

Coelomic parasite of *Golfingia minuta*

TETRACTINOMYXON IRREGULARE Ikeda, 1912, p. 270

Coelomic parasite of *Golfingia minuta*

Order HAPLOSPORIDIA

HAPLOSPORIDIUM CHITONIS (Lankester, 1885, p. 853, as Klossia) [*Pixell Goodrich*, 1915b, p. 445, as *Minchinia*]

Lepidochiton cinereus, Rum Bay, heavily infected Oct. 1914 to April 1915; the same in 1949 (personal communication from G. C. Evans, who also found infections of the same chiton from Wembury, below the Hoe, parts of Cornwall and Dale Fort, Pembrokeshire). Specimens studied by Labbé 1896, p. 533) and Debaisieux (1919 and 1920) also came from the Plymouth region (H.P.G.)

HAPLOSPORIDIUM NEMERTIS Debaisieux, 1920, p. 295

Lineus bilineatus, 3 out of 6 infected, River Yealm, June and July, 1919 (P.D.)

An unnamed sporozoon from coelomic corpuscles of *Golfingia minuta* is described by Etherington (1953, p. 160)

Class **CILIOPHORA**Sub-Class *CILIATA*

Order HOLOTRICHA

PROTOPHRYA OVICOLA Kofoid, 1903, p. 111

Common, at least during the spring, in the brood-sac of *Littorina saxatilis*; apparently first found at Plymouth by J.H.O. (D.P.W)

HOLOPHRYA OBLONGA (Maupas) [*De Morgan*, 1925, p. 601]

Drake's Island tank, Plymouth Laboratory, Feb. 1916; dredgings from New Grounds, July 1920; dredgings from Asia Shoal, New Grounds, and Millbay, July, August 1922 (W.DE M.)

HOLOPHRYA CORONATA De Morgan, 1925, p. 609

Tanks, Plymouth Laboratory, April to Sept. 1914 (W.DE M.): 1951 (M.F.)

HOPLITOPHRYA (ANOPLOPHRYA) BRASILI (Léger et Duboscq) [*Hentschel*, 1925, p. 217]

Intestine of *Audouinia tentaculata*, Plymouth (C.C.H.)

CONCHOPHRYA MYTILI De Morgan, 1925, p. 616

In mantle cavity of *Mytilus edulis*, 1924 (W.DE M.)

PROTOZOA: CILIOPHORA

- PRORODON MARINUS (Möbius) [*De Morgan*, 1925, p. 626]
Drake's Island tank, Plymouth Laboratory, not common, 1924 (W.DE M.)
- CHAENIA ELONGATA (Bütschli) [*Kahl*, 1926, p. 260]
Drake's Island tank in fair numbers, 1924 (W.DE m.): Aug.-Sept. 1952 (M.F.)
- FRONTONIA FUSCA (Quenn.) [*De Morgan*, 1925, p. 634]
Drake's Island tank among algae, not common, March and April 1922 (W.DE M.)
- ANCISTRUM MYTILI (Quenn.) [*De Morgan*, 1925, p. 635]
Among the branchial filaments of *Mytilus edulis*, frequent (W.DE M.)
- LIONOTUS FASCIOLA (O. F. Müller) [*De Morgan*, 1925, p. 639]
Often in numbers in the film on the top of dredgings (W.DE M.): 1951 (M.F.)
- LIONOTUS DUPLOSTRIATUS (Maupas) [*Kahl*, 1935, p. 192]
Tanks, Plymouth Laboratory, March 1952 (M.F.)
- DYSTERIA ARMATA (Huxley) [*De Morgan*, 1925, p. 642]
Common among algae, tanks, Plymouth Laboratory, March-May (W.DE M.)
- DYSTERIA LANCEOLATA Clap. and Lach. [*Kahl*, 1935, p. 258]
Tanks, Plymouth Laboratory, Aug.-Oct. 1951 (M.F.)
- DYSTERIA NAVICULA Kahl, 1928, p. 88
Laboratory tanks, Dec. 1953 (M.F.)
- AEGYRIA OLIVA (Clap. and Lach.) [*De Morgan*, 1925, p. 649]
Drake's Island tank, only solitary individuals (W.DE M.)
- LACRYMARIA OLOR (O. F. Müller) [*De Morgan*, 1925, p. 652; *Kahl*, 1933, p. 54]
Drake's Island tank, March-May (W.DE M.)
- LOXOPHYLLUM ROSTRATUM (Cohn) [*De Morgan*, 1925, p. 655]
Drake's Island tank, fairly common (W.DE M.)
- TRACHELOCERCA PHOENICOPTERUS Cohn [*De Morgan*, 1926, p. 23; *Kahl*, 1927, p. 114]
Tanks, Plymouth Laboratory, many in summer (W.DE M.)
- TRACHELOCERCA ENTZI Kahl [*Kahl*, 1935, p. 119]
Tanks, Plymouth Laboratory, April 1953, very rare (M.F.)
- URONEMA MARINIUM Dujardin [*De Morgan*, 1926, p. 34]
Very common among decaying algae and organic matter (W.DE M.)
- ORCHITOPHYRYA STELLARUM Cépède, [*Cépède*, 1910, p. 475]
In testes of *Asterias rubens* from the Outer Grounds south and south-west of the Eddystone, March-April 1947, and from the Outer Grounds and Asia Shoal during the early months of 1948-50 (Vevers, 1951, p. 619)
- CYCLIDIUM GLAUCOMA O. F. Müller [*De Morgan*, 1926, p. 35]
Among putrid organic matter (W.DE M.)

PROTOZOA: CILIOPHORA

- PLEURONEMA CHRYSALIS Ehr. [*Calkins*, 1901, p. 444]
Tanks, Plymouth Laboratory, March 1951 (M.F.)
- PLEURONEMA MARINUM (Dujardin) [*Kahl*, 1935, p. 389]
Tanks, Plymouth Laboratory, March 1951 (M.F.)
- HISTIOBALANTIUM NATANS (Clap. and Lach.) [*Kahl*, 1935, p. 390]
Tanks, Plymouth Laboratory, March 1951 (M.F.)
- PHILASTRIDES ARMATA (Kahl) [*Kahl*, 1935, p. 366]
Tanks, Plymouth Laboratory, Aug. 1952 (M.F.)
- BLEPHAROSTOMA PIGERRIMUM (Cohn) [*De Morgan*, 1926, p. 38]
In decaying organic matter (W.DE M.)
- LEMBUS ELONGATUS (Clap. and Lach) [*De Morgan*, 1926, p. 48]
Tanks, Plymouth Laboratory (W.DE M.)
- TIARINA FUSUS Clap. and Lach. [*Hamburger and Buddenbrock*, 1911, p. 23]
Singly from Sound and outside, Aug., Sept. (M.V.L.)
- COLEPS TESSELATUS Kahl, 1930, p. 327
Tanks, Plymouth Laboratory, summer (M.F.)
- CHLAMYDODON MNEMOSYNE Ehr. [*Macdougall*, 1928, p. 473]
Tanks, Plymouth Laboratory, Sept.-Dec. 1951 (M.F.)
- MESODINIUM PULEX (Entz) [*Kahl*, 1928, p. 74]
Tanks, Plymouth Laboratory, nearly all seasons (M.F.)
- PTYSSOSTOMA THALASSEMAE Hentschel, 1927, p. 651
Intestine of *Thalassema neptuni* from Plymouth, Rum Bay, Wembury, April 1922, Easter 1925, 1926 (C.C.H.)
- FOETTINGERIA ACTINIARUM (Clap.) [*De Morgan*, 1924, p. 343]
Parasitic in *Actinia equina* from Plymouth and neighbouring bays (W.DE M.)
- PORPOSTOMUM NOTATUM (Möbius) [*De Morgan*, 1925, p. 614]
Drake's Island tank, a few any month of the year, in 1914 and 1916 a large number in Feb. and in March, in 1922, few (W.DE M.)

Order SPIROTRICHA

Sub-Order HETEROTRICHA

- CONDYLOSTOMA PATENS (O. F. Müller) [*De Morgan*, 1925, p. 619]
Very common; tanks in Laboratory nearly all seasons (W.DE M.)
- CONDYLOSTOMA ARENARIUM Spiegel, 1926, p. 184
April 1951, tanks, Plymouth Laboratory (M.F.)
- SPIROSTOMUM LANCEOLATUM (Gruber) [*De Morgan*, 1925, p. 631]
Drake's Island tank, fairly abundant except in Jan., Feb. and March (W.DE M.)

PROTOZOA: CILIOPHORA

PERITROMUS FAUREI Kahl, 1935, p. 482

Tanks, Plymouth Laboratory in fair numbers, 1951 (M.F.)

PERITROMUS EMMAE Stein [*Calkins*, 1901, p. 452]

Tanks, Plymouth Laboratory, April-Nov. 1951 (M.F.)

FOLLICULINOPSIS PRODUCTA Wright [*Das*, 1947, pp. 441-56]

Attached on shell of *Pecten maximus* obtained from Laboratory tanks, Sept. 1947 (S.M.D.)

FOLLICULINOPSIS ANDREWSI (Hadzi, 1938, p. 38, as Metafolliculina)

Attached to *Ciona intestinalis* obtained from wooden panel in Laboratory tanks, Sept. 1947 (S.M.D.)

FOLLICULINA VIRIDIS Wright [*Kahl*, 1935, p. 471]

Attached on inner and outer sides of shell of *Chlamys opercularis*, obtained by dredge, West Channel, Plymouth, Sept. 1947 (S.M.D.)

FOLLICULINA ELEGANS Clap. and Lach. [*Fauré-Fremiet*, 1936, p. 1146]

Attached on submerged wooden panel obtained from Laboratory tanks, Sept. 1947 (S.M.D.)

FOLLICULINA AMPULLA (O. F. Müller [*Kent*, 1880-2, p. 597])

Stoke Point, dredged, Feb. 1936 (W.J.R.)

Sub-Order OLIGOTRICHA

Family **Tintinnidae**

PTYCHOCYLIS URNULA (Clap. and Lach.) [*Jørgensen*, 1927, p. 13]

In summer, Sound and outside (M.V.L.)

HELICOSTOMELLA SUBULATA (Ehrenberg) [*Jørgensen*, 1924, p. 25]

Sound and outside, tow-nets and centrifuge, July-Oct., chiefly Aug. (M.V.L.)

FAVELLA SERRATA (Möbius) [*Jørgensen*, 1924, p. 26]

Common, Sound, tow-nets, chiefly summer (M.V.L.)

EPIPLACYLIS ACUMINATA (Daday) [*Jørgensen*, 1924, p. 56]

Very rare, centrifuge, Sound, June 1920 (M.V.L.)

TINTINNOPSIS BEROIDEA Entz [*Jørgensen*, 1924, p. 66]

Common, Sound, tow-nets, all seasons (M.V.L.)

TINTINNOPSIS CAMPANULA (Ehrenberg) [*Jørgensen*, 1924, p. 68]

Fairly common, Sound, tow-nets, chiefly summer (M.V.L.)

TINTINNOPSIS CAMPANULA var. CYATHUS (Daday) [*Jørgensen*, 1927, p. 6]

Fairly common, Sound, tow-nets, summer (M.F.)

STENOSEMELLA VENTRICOSA (Clap. and Lach.) [*Jørgensen*, 1924, p. 95]

Very common, Sound, tow-nets, summer (M.V.L.)

TINTINNIDIUM INQUILINUM (Ehrenberg) [*Fauré-Fremiet*, 1908, p. 225]

Laboratory tanks, Jan. 1954 (M.F.)

PROTOZOA: CILIOPHORA

Family **Halteridae**

- TONTONIA APPENDICULARIFORMIS Fauré-Fremiet [*Fauré-Fremiet*, 1924, p. 68]
Occasionally, Sound and outside, centrifuge and tow-nets, chiefly in summer (M.V.L.)
- LOHMANNIELLA OVIFORMIS Leegaard [*Leegaard*, 1915, p. 28]
Rare, centrifuge, outside Breakwater, Aug. (M.V.L.)
- STROMBIDIUM SULCATUM Clap. and Lach. [*Buddenbrock*, 1920, p. 354]
Laboratory tanks, Aug., Sept. 1952 (M.F.)
- STROMBIDIUM LAGENULA Fauré-Fremiet, 1924, p. 65
In tow-nets from Sound, April 1954, very rare (M.F.)
- ARACHNIDIUM BECHERI Buddenbrock, 1920, p. 352
Laboratory tanks, April, May 1951 (M.F.)

Sub-Order HYPOTRICHA

- UROSTRONGYLUM CONTORTUM (Kahl, 1928, p. 204)
Laboratory tanks among algae, summer (M.F.)
- STICHOTRICHA ACULEATA Wrzesniowski [*Kahl*, 1935, p. 560]
Laboratory tanks, in decaying organic matter (M.F.)
- STICHOTRICHA GRACILIS Moebius [*Kahl*, 1935, p. 559]
Laboratory tanks, in decaying organic matter, Sept.-Dec. (M.F.)
- EPICLINTES AMBIGIUS Bütschli [*Kahl*, 1935, p. 569]
Laboratory tanks, among decaying algae and organic matter, Sept.-Dec. (M.F.)
- MICROMITRA RETRACTILIS Clap. and Lach. [*Kahl*, 1935, p. 842]
Laboratory tanks, among decaying algae, Sept.-Dec. (M.F.)
- HOLOSTICHA GIBBA (O. F. Müller) [*Kahl*, 1935, p. 583]
Among algae, not very common, summer, 1954 (M.F.)
- HOLOSTICHA DIADEMATA (Rees) [*Kahl*, 1935, p. 582]
Among decaying algae, Laboratory tanks (M.F.)
- HOLOSTICHA MULTINUCLEATA Maupas [*De Morgan*, 1926, p. 45]
Drake's Island tank, abundant in summer months (W.DE M.)
- HOLOSTICHA RUBRA Ehrenberg, var. FLAVA [*Kahl*, 1935, p. 571, as *Keronopsis rubra*]
Laboratory tanks, spring and summer (W.DE M.)
- EUPLOTES VANITIES (O. F. Müller) [*Kahl*, 1928, p. 208; 1935, p. 636]
Very common among algae, Laboratory tanks (M.F.)
- EUPLOTES CHARON (O. F. Müller) [*Kahl*, 1928, p. 205; 1935, p. 633]
Common among algae, Laboratory tanks (M.F.)
- EUPLOTES BALTEATUS (Dujardin) [*Kahl*, 1935, p. 635]
Fairly common among algae, Laboratory tanks (M.F.)

PROTOZOA: CILIOPHORA

DIOPHRYS IRMGARD (Mansfeld, 1923, p. 132)
Laboratory tanks (M.F.)

DIOPHRYS APPENDICULATA (Ehrb.) [*Kahl*, 1935, p. 625]
Common in Laboratory tanks (M.F.)

DISCOCEPHALUS ROTATORIUS (Ehrb.) [= *Polycoccon octangulus* Sauerbrey, 1928, p. 399]
Very rare, Laboratory tanks, Aug. 1951 (M.F.)

URONYCHIA HEINROTHI Buddenbrock, 1920, p. 356
Nearly all seasons, Laboratory tanks (M.F.)

ASPIDISCA DENTATA Kahl, 1928, p. 208
Very common, Laboratory tanks (M.F.)

Order PERITRICHIA

VORTICELLA PATELLINA O. F. Müller [*Kahl*, 1935, p. 733]
Laboratory tanks, fairly common (M.F.)

VORTICELLA NEBULIFERA O. F. Müller [*Kahl*, 1935, p. 736]
Laboratory tanks, common (M.F.)

VORTICELLA CALICIFORMIS Kahl [*Kahl*, 1935, p. 734]
Laboratory tanks (M.F.)

VORTICELLA MARINA Greeff [*Stiller*, 1939, p. 428]
Common among algae (M.F.)

VAGINICOLA CRYSTALLINA Ehrenberg [*Kahl*, 1935, p. 762]
On Cladophora, rare (M.F.)

VAGINICOLA AMPHORA Kahl [*Kahl*, 1935, p. 766]
On Vaucheria, very rare, 1955 (M.F.)

COTHURNIA COMPRESSA Clap. and Lach. [*Stiller*, 1939, p. 441]
On Cladophora, very common (M.F.)

COTHURNIA CERAMICOLA Kahl [*Kahl*, 1935, p. 784]
On Cladophora, Laboratory tanks (M.F.)

COTHURNIA ENTZI Kahl [*Stiller*, 1939, p. 436]
On Cladophora, Laboratory tanks (M.F.)

COTHURNIA AURICULATA Stiller 1939, p. 443
Laboratory tanks (M.F.)

COTHURNIA SIMPLEX Kahl [*Kahl*, 1935, p. 775]
Laboratory tanks, on Cladophora (M.F.)

COTHURNIA ELEGANS (Stiller, 1940, p. 283)
Laboratory tanks, on Cladophora (M.F.)

THURICOLA VALVATA (Wright) [*Kahl*, 1935, p. 786]
Laboratory tanks, Jan. 1954 (M.F.)

MESOZOA

Sub-Class *SUCTORIA*

ACINETA TUBEROSA Ehrenberg var. FOETIDA Maupas, 1881, p. 315 as *A. foetida*

Abundant in a culture of oyster's heart killed in urea and put in sea water from outside, forming embryos, 12.2.21;
also common in dredgings (J.H.O.)