

PLATYHELMINTHES: TURBELLARIA

Phylum **PLATYHELMINTHES**Class **TURBELLARIA**Order **ACOELA**Tribe *Ophisthandropora-Abursalia**Family **Proporidae**

PROPORUS VENENOSUS (O Schmidt) [*Gamble*, 1893, p.440; *Graff*, 1882, p.271, and 1905, p. 5]
low water, Wembury Bay and Drake's Island (F. W. G)

Tribe *Proandropora-Abursalia*

AVAGINA INCOLA Leiper [*Westblad*, 1953c, p. 271]
Common in *Spatangus purpureus* (E.W.)

AVAGINA GLANDULIFERA Westblad 1953c, p. 271
In *Spatangus purpureus* (E.W.)

Tribe *Proandropora-Bursalia*Family **Convolutidae**

APHANOSTOMA † DIVERSICOLOR Oersted [*Gamble*, 1893, p. 442; *Graff*, 1882, p. 220 and 1905, p. 11]
Various localities between tide-marks (F.W.G.)

APHANOSTOMA † RHOMBOIDES Jensen [*Gamble*, 1893, p. 443, as *A. elegans*; *Graff*, 1882, p. 222, and 1905, p. 12]
One specimen amongst *Ulva* at Redding Point (F.W.G.)

CONVOLUTA SALIENS (Graff) [*Gamble*, 1893, p. 444; *Graff*, 1882, p. 224, as *Cyrtomorpha*, and 1905, p. 16]
Among *Zostera* from Cawsand Bay, rare (F.W.G.)

CONVOLUTA CONVOLUTA (Abildgaard) [*Gamble*, 1893, p. 445, as *C. paradoxa*; *Graff*, 1882, p. 228, and 1905, p. 18]
Littoral zone, widely distributed, nowhere abundant (F.W.G.)

CONVOLUTA FLAVIBACILLUM Jensen [*Gamble*, 1893, p. 448; *Graff*, 1882, p. 227, and 1905, p. 17]
Among sand in creeks at Picklecombe Fort, Wembury Bay and Bovisand Bay (F.W.G.)

Family **Otocelididae**

OTOCELIS RUBROPUNCTATUS (O. Schmidt) [*Gamble*, 1893, p. 441, as *Monoporus*; *Graff*, 1882, p. 217, as *Proporus*, and 1905, p. 9]
Not uncommon at low water, Wembury Bay and Drake's Island (F.W.G.)

* Tribes revised after Westblad, 1948.

† The nomenclature of this genus is in some confusion (Westblad, 1948, pp. 2 and 3). The correct name of the species here identified as *A. rhomboides* might be *Mecynostomum agile* Jensen (C.F.A.P.)

PLATYHELMINTHES: TURBELLARIA

Order RHABDOCOELA

Family **Microstomidae**

MACROSTOMUM APPENDICULATUM (O. Fabr. 1826) Graff, 1905 [*Westblad*, 1953*b*, p. 392]
SALCOMBE. July 1949 (E.W.)

MACROSTOMUM PUSILLUM Ax [*Westblad*, 1953*b*, p. 395]
Yealm estuary, common in mud, July 1949 (E.W.)

MICROSTOMUM GROENLANDICUM (Levinsen) [*Gamble*, 1893, p. 449; *Graff*, 1882, p. 252, and 1913, p. 421
Among *Ulva*, Redding Point (F.W.G.)

MICROSTOMUM HAMATUM *Westblad*, 1953*b*, p. 398
Plymouth harbour, in black mud at 40 metres, July 1949 (E.W.)

MICROSTOMUM RUBROMACULATUM *Graff*, 1882, p. 251 [*Westblad*, 1953*b*, p. 404]
Wembury, in tide-pools, July 1949 (E.W.)

Family **Graffillidae**

PROVORTEX BALTICUS (Schultze) [*Gamble*, 1893, p. 468; *Graff*, 1882, p. 345, and 1913, p. 75]
Between tide-marks, chiefly at Wembury Bay (F.W.G.)

PROVORTEX AFFINIS (Jensen) [*Gamble*, 1893, p. 469; *Graff*, 1882, p. 346, and 1913, p. 76]
Drake's Island among algae (F.W.G.)

PROVORTEX RUBROBACILLUS *Gamble*, 1893, p. 469 [*Graff*, 1913, p. 77]
Dredged off New Grounds (F.W.G.)

PARAVORTEX CARDII Hallez, 1909 [*Atkins*, 1934, p. 669]
In *Cardium edule* from Yealm, Millbrook, St. John's Lake, Neille Point, Stonehouse Pool, St. Germans, Salcombe,
Jan.-Aug. 1933 (D.A.)
This species has been recorded, but wrongly identified as *Graffilla gemmelipara*, by Leigh-Sharpe (1933*a*) (D.A.)

Family **Umagillidae**

UMAGILLA FORSKALENSIS Wahl [*Westblad*, 1953*c*, p. 270]
Common in intestine of *Holothuria forskali* (E.W.)

ANOPLIDIUM TUBIFERUM *Westblad*, 1953*c*, p. 271
In *Holothuria forskali* (E.W.)

MARCUSELLA ATRIOVILLOSA *Westblad*, 1953*c*, p. 282
In *Spatangus purpureus* (E.W.)

SYNDESMIS ECHINORUM *Francois*, 1886, p. 752
Common in *Echinus esculentus* (E.W.)

PLATYHELMINTHES: TURBELLARIA

Family **Byrsophlebidae**

BYRSOPHLEBS GRAFFI Jensen [*Gamble*, 1893, p. 455; *Graff*, 1882, p. 275, and 1913, p. 173]
Drake's Island low spring-tide; amongst algae (F.W.G.)

Family **Astrotorhynchidae**

ASTROTORHYNCHUS BIFIDUS (McIntosh) [*Gamble*, 1893, p. 459, as *Pseudorhynchus*; *Graff*, 1882, p. 316, and 1913, p. 177]
Plymouth Sound (E.G.G.)

Family **Proxenetidae**

PROMESOSTOMA MARMORATUM (Schultze) [*Gamble*, 1893, p. 450; and *Graff*, 1913, p. 191]
Not uncommon in tide-pools in Wembury Bay, Drake's Island, and Redding Point (F.W.G.)

PROMESOSTOMA OVOIDEUM (O. Schmidt) [*Gamble*, 1893, p. 451; *Graff*, 1882, p. 272, and 1913, p. 194]
Occasionally dredged near Duke Rock (F.W.G.)

PROMESOSTOMA SOLEA (O. Schmidt) [*Gamble*, 1893, p. 452; *Graff*, 1882, p. 273, and 1913, p. 195]
Abundant in dredging from all localities (F.W.G.)

PROMESOSTOMA AGILE (Levinsen) [*Gamble*, 1893, p. 454; *Graff*, 1913, p. 196]
Among *Zostera* in Cawsand Bay (F.W.G.)

PROXENETES COCHLEAR von Graff [*Gamble*, 1893, p. 457; *Graff*, 1882, p. 279, and 1913, p. 189]
Plymouth Sound (E.G.G.)

PROXENETES FLABELLIFER Jensen [*Gamble*, 1893, p. 456; *Graff*, 1882, p. 277, and 1913, p. 187]
Tide-pools on N. side of Cawsand Bay (F.W.G.)

PARAMESOSTOMA NEAPOLITANUM (Graff) [*Gamble*, 1893, p. 458, as *Mesostoma*; *Graff*, 1882, p. 310, and 1913, p. 198]
One specimen among *Fucus* on inner side of Breakwater (F.W.G.)

Family **Trigonostomidae**

TRIGONOSTOMUM ARMATUM (Jensen) [*Gamble*, 1893, p. 466, as *Hyporhynchus armatus*; *Graff*, 1882, p. 337, and 1913, p. 305]
Among *Zostera* in Cawsand Bay; tide-pools Redding Point (F.W.G.); tanks in Laboratory (E.G.G.)

TRIGONOSTOMUM PENICILLATUM (Schmidt) [*Gamble*, 1893, p. 467, as *Hyporhynchus*; *Graff*, 1882, p. 341, and 1913, p. 308]
One specimen among *Zostera* in Cawsand Bay (F.W.G.)

PLATYHELMINTHES: TURBELLARIA

Family **Polycystididae**

ACRORHYNCHUS CALEDONICUS (Claparède) [*Gamble*, 1893, p. 460; *Graff*, 1882, p. 319, and 1913, p. 324]
Tide-pools near Picklecombe and Redding Point; less commonly in Wembury Bay (F.W.G.)

POLYCYSTIS NAEGELI Kölliker [*Gamble*, 1893, p. 462, as *Macrorhynchus*]
Plentiful in August on inner side of Breakwater (F.W.G.)

POLYCYSTIS CROCEA (Fabricius) [*Gamble*, 1893, p. 463, as *Macrorhynchus*; *Graff*, 1882, p. 324, and 1913, p. 330]
Dredged once in New Grounds (F.W.G.)

PHONORHYNCHUS HELGOLANDICUS (Metschnikoff) [*Gamble*, 1893, p. 464, as *Macrorhynchus*; *Graff*, 1882, p. 328, and 1913, p. 338]
Once in New Grounds (F.W.G.)

ROGNEDA HIBERNICA (Southern) [*Karling*, 1953, p. 363]
Cawsand Bay, sandy bottom at 16 metres, 5.7.49 (E.W.)

ROGNEDA ANGLICA *Karling*, 1953, p. 364
Various places on mud bottom and on shell bottom (New Ground at 10-12 metres); on gravel (Rame Head at about 36 metres) (E.W.)

Family **Gyratricidae**

GYRATRIX HERMAPHRODITUS Ehrenberg [*Gamble*, 1893, p. 465, as *Gyrator*; *Graff*, 1882, p. 332, and 1913, p. 342]
Tide-pools on rocks in front of Laboratory; water sometimes brackish; in early winter, not in spring (E.G.G.)

Family **Fecampiidae**

FECAMPIA ERYTHROCEPHALA A. Giard, 1886, p. 499 [*Graff*, 1913, p. 352]
Encysted stage common on all stony shores at low water (W.T.B., S.P.): Rum Bay, in small *Carcinus maenas*, 1949 (E.W.)

Order ALLOEOCOELA

Family **Plagiostomidae**

PLAGIOSTOMUM DIOICUM (Metschnikoff) [*Gamble*, 1893, p. 471; *Graff*, 1913, p. 377]
Duke Rock and Wembury Bay (F.W.G.)

PLAGIOSTOMUM ELONGATUM (*Gamble*, 1893, p. 473) [*Graff*, 1913, p. 380]
Wembury Bay, among sand; Breakwater (F.W.G.)

PLAGIOSTOMUM PSEUDOMACULATUM (*Gamble*, 1893, p. 474) [*Graff*, 1913, p. 381]
Among weed-tubes of *Polydora caeca* in Hamoaze (F.W.G.)

PLAGIOSTOMUM SAGITTA (Uljanin) [*Gamble*, 1893, p. 474; *Graff*, 1882, p. 88, and 1913, p. 371]
Tide-pools Redding Point (F.W.G.)

PLATYHELMINTHES: TURBELLARIA

PLAGIOSTOMUM CAUDATUM Levinsen [*Gamble*, 1893, p. 475; *Graff*, 1882, p. 389, and 1913, p. 374]
One specimen among *Zostera* in Cawsand Bay (F.W.G.)

PLAGIOSTOMUM VITTATUM (Frey and Leuckart) [*Gamble*, 1893, p. 475; *Graff*, 1882, p. 389, and 1913, p. 383]
Abundant littoral species in all localities; egg capsules from Breakwater in Sept. (F.W.G.): the tanks in the Laboratory swarm with them (E.G.G.)

PLAGIOSTOMUM KORENI Jensen [*Gamble*, 1893, p. 476; *Graff*, 1882, p. 392, and 1913, p. 385]
Breakwater and Redding Point; tank in Laboratory (F.W.G.)

?PLAGIOSTOMUM SIPHONOPHORUM (Schmidt) [*Gamble*, 1893, p. 477]
A specimen from Millbay Channel (F.W.G.)

PLAGIOSTOMUM GIRARDI (Schmidt) [*Gamble*, 1893, p. 477; *Graff*, 1882, p. 394, and 1913, p. 363]
Low spring-tides, Wembury Bay; tide-pools north side of Cawsand Bay, not uncommon Duke Rock and Millbay Channel (F.W.G.)

VORTICEROS AURICULATUM (O. F. Müller) [*Gamble*, 1893, p. 478; *Graff*, 1882, p. 399, and 1913, p. 389]
An abundant littoral species in all localities (F.W.G.)

VORTICEROS LUTEUM Hallez [*Gamble*, 1893, p. 479; *Graff*, 1882, p. 401, and 1913, p. 391]
One specimen New Grounds; one on inner side of Breakwater (F.W.G.)

Family **Pseudostomidae**

PSEUDOSTOMUM QUADRIOCULATUM (Leuckart) [*Gamble*, 1893, p. 483, as *Cylindrostoma*; *Graff*, 1913, p. 395]
Abundant among Florideae, Wembury Bay (F.W.G.): tanks in Laboratory (E.G.G.)

PSEUDOSTOMUM INERME (Hallez) [*Gamble*, 1893, p. 484, as *Cylindrostoma*; *Graff*, 1882, p. 414, and 1913, p. 399]
Duke Rock, Millbay Channel, Hamoaze (F.W.G.)

MONOOPHORUM ELONGATUM (Gamble, 1893, p. 485, as *Cylindrostoma*) [*Graff*, 1882, p. 415, and 1913, p. 406]
Tide-pools, Wembury Bay (F.W.G.)

MONOOPHORUM STRIATUM (Graff) [*Gamble*, 1893, p. 486; *Graff*, 1913, p. 401]
Duke Rock, a single specimen (F.W.G.)

Family **Allostomatidae**

ALLOSTOMA AUSTRIACUM (Graff) [*Gamble*, 1893, p. 480, as *Enterostoma*; *Graff*, 1913, p. 418]
Common in Sound below 5 fm. (F.W.G.)

PLATYHELMINTHES: TURBELLARIA

ENTEROSTOMUM FINGALIANUM Claparède [*Gamble*, 1893, p. 481; *Graff*, 1882, p. 404, and 1913, p. 411]
Among Florideae, Wembury Bay (F.W.G.)

Family **Monocelididae**

MONOCELIS LINEATA (O. F. Müller) [*Gamble*, 1893, p. 487, as *Monotus*; *Graff*, 1882, p. 418, and 1913, p. 427]
Not uncommon amongst *Ulva*, Redding Point (F.W.G.)

MONOCELIS FUSCA Oersted [*Gamble*, 1893, p. 488, as *Monotus*; *Graff*, 1882, p. 421, and 1913, p. 425]
Abundant among *Balanus*, *Ulva*, and generally throughout the littoral zone (F.W.G.)

MONOCELIS ALBA (Levinsen) [*Gamble*, 1893, p. 489, as *Monotus*; *Graff*, 1882, p. 424, and 1913, p. 432]
Tide-pools below Picklecombe Fort (F.W.G.)

MONOCELIS UNIPUNCTATA (Fabricius) [*Gamble*, 1893, p. 490, as *Automolus*; *Graff*, 1882, p. 426, and 1913, p. 438]
Rarely among algae, Duke Rock (F.W.G.)

MONOCELIS HAMATA Jensen [*Gamble*, 1893, p. 491, as *Automolus horridus*; *Graff*, 1913, p. 429]
One specimen from Hamoaze (F.W.G.)

MONOCELIS GAMLEI von Graff [*Gamble*, 1893, p. 492, as *Automolus ophiocephalus*; *Graff*, 1913, p. 433]
Millbay Channel (F.W.G.)

Order TRICLADIDA

Family **Procerodidae**

PROCERODES ULVAE (Oersted) [*Wilhelmi*, 1909, p. 316; *Gamble*, 1893, p. 493, as *Gunda*]

Shore W. of Reny Rocks, high-water mark, hundreds of egg capsules under the larger stones embedded in the gravel. Nov. 1913; Reny Reef, shore near high water, capsules on stones, 4 or 5 young in each capsule, 30.8.12; Wembury Bay Church Reef, with egg capsules, under stones, 3.4.20; Reny Rocks near high-water mark, a great crowd of tiny specimens about 2 mm when fully extended, very few above medium size, 3.11.21 (J.H.O.): Revelstoke, under stones lying in freshwater stream flowing into the sea, just below high-tide mark, in some numbers, 2.2.30, egg capsules numerous (G.M.S.): estuary of freshwater stream on Wembury Beach, 15-19.7.30, calm sea, neap tides, occurs from high-water neaps to low-water neaps, population maximal from the lower edge of the shingle to low-water neap level, rarely found under stones less than 6 in. diameter; only under sea water about half an hour at the upper end of the range, water of stream p.H. 7.7, very hard water containing much Ca, Mg, CO₃, and SO₄; 28.7.30 to 1.8.30, rough sea, spring tide, occurrence as above but only extending half-way up the shingle towards high-water (C.F.A.P.)

PLATYHELMINTHES: TURBELLARIA

SABUSSOWIA DIOICA Claparède [*Wilhelmi*, 1909, p. 349; *Gamble*, 1893, p. 494, as *Fovia affinis*]

In a sandy creek, Wembury Bay (F.W.G.): Cawsand Bay; Whitsand Bay; on drift weed (*W.I.B.*): from drift weed (*Fucus*, *Laminaria*) between Drake's Island and Island Buoys, about 200 specimens, 23.11.09 (A.J.S.)

Order POLYCLADIDA

Family **Cryptocelididae**

CRYPTOCELIS ALBA (Lang, 1884, p. 471)

Millbay Channel; Mewstone Amphioxus Ground, Nov. 1899 (*W.I.B.*): confirmed by F.W.G.

Family **Leptoplanidae**

LEPTOPLANA TREMELLARIS O. F. Müller [*Gamble*, 1893, p. 498; *Lang*, 1884, p. 476]

Generally, under stones and shells, from littoral zone to 15 fm. (F.W.G., *W.I.B.*): plentiful in July and Aug., scarcer in Sept., difficult to find in Feb. (F.W.G.): Millbay Pit; about 2 m. S. of Mewstone; Yealm River (*W.I.B.*): Plymouth 1921 (J.F.G.W.)

?NOTOPLANA ATOMATA (O. F. Müller) [*Gamble*, 1893, p. 503, as *Leptoplana droebachensis*]

Plymouth Sound (F.W.G.)

NOTOPLANA FALLAX (Quatrefages) [*Lang*, 1884, p. 492, as *Leptoplana*]

Millbay Channel (F.W.G.): Millbay Docks, scrapings from piles, about 6 batches of eggs deposited in glass dish, sperms procured about a fortnight before, 17.11.14 (A.J.S.): very common Asia Shoal and Duke Rock, 23.8.21 (J.F.G.W.)

STYLOCHOPLANA MACULATA (Quatrefages) [*Gamble*, 1893, p. 497; *Lang*, 1884, p. 459]

Cawsand Bay, common on trawled weed, July 1898 (*W.I.B.*)

Family **Euryleptidae**

PROSTHECERAEUS VITTATUS (Montagu) [*Gamble*, 1893, p. 504; *Lang*, 1884, p. 554]

Off Stoke Point (J.T.C.); Sound (*W.G.*, F.W.G.); Queen's Ground, occasionally; Yealm River, not uncommon, sometimes very large (*W.I.B.*)

SALCOMBE. Several specimens on shore at 16 ft. tide at the Salstone (Allen and Todd, 1900, p. 189): a few specimens can usually be found in the same locality, under stones among ascidians and sponges (D.P.W.)

CYCLOPORUS PAPILLOSUS Lang, 1884, p. 568 [*Gamble*, 1893, p. 506]

On ascidians and sponges dredged in Cattewater and outside Sound (F.W.G.): on *Botryllus* under stones below Laboratory (E.J.A.): Barn Pool, var. *laevigatus*; Mount Edgcumbe; on *Fucus* with botrylloids; Queen's Ground; Duke Rock (*W.I.B.*): common on *Botryllus* (S.P.): Rum Bay, 23.8.21 (J.F.G.W.)

PLATYHELMINTHES: TREMATODA

CYCLOPORUS SP. (probably the above species)

Cawsand Bay, on Botryllus, 11.7.12; on 22.7.12 laid eggs in glass jar, in which isolated eggs were laid in 10 different places in batches of 150 to 250; 29.7.12, eggs developed to Müller's larvae which are heliotropic; another batch of eggs from different specimens, 19.8.12 (J.H.O.)

EURYLEPTA CORNUTA (O. F. Müller) [Gamble, 1893, p. 507; Lang, 1884, p. 572]

Occasionally dredged on Duke Rock and in Yealm River (F.W.G.): Drake's Island, N. Shore; Yealm River; off the Mewstone, on gravel and rough ground; Rame-Eddystone Grounds (W.I.B.): Asia Shoal; Queen's Ground, etc. (S.P.)

OLIGOCLADUS SANGUINOLENTUS (Quatrefages) [Gamble, 1893, p. 509]

Duke Rock; Millbay Channel; Cawsand Bay; Stoke Point (F.W.G.): Queen's Ground; Mallard Shoal; Mewstone Cellaria and Echinoderm Grounds; Yealm River, common (W.I.B.): what is probably this species laid 5 batches of eggs in a glass jar of which 5 specimens were isolated, eggs segmented to embryos, 6.8.12 (J.H.O.)

STYLOSTOMUM ELLIPSE (Dalyell) [Gamble, 1893, p. 511, as *S. variabile*]

Estuary of Yealm, Duke Rock, young stages between tide-marks at Redding Point and round Mallard Buoy in Sept. (F.W.G.): not uncommon on stony bottom in the Sound and Yealm River; Cawsand Bay on drift weed; Millbay Docks, on piles with Ascidiella (W.I.B.): fairly common Asia Shoal, eggs deposited by one specimen from dorsal surface, 25.8.21 (J.F.G.W.)

Family **Prosthlostomidae**

PROSTHIOSTOMUM SIPHUNCULUS (Delle Chiaje) [Lang, 1884, p. 595]

Drake's Island (F.W.G.)

Class **TREMATODA**Order **MONOGENEA**Family **Gyrodactylidae**

GYRODACTYLUS MEDIUS Kathariner, 1894, p. 129

Skin and gills of *Onos mustelus* and *Onos tricirratu* *, particularly common in winter and spring, and in Aug. 1940 (N.G.S.)

GYRODACTYLUS ? RARUS Wegener, 1909 [Sproston, 1946, p. 196, as *Gyrodactylus elegans*]

Very common on gills, fins and body of *Spinachia spinachia* (N.G.S.)

GYRODACTYLUS Sp. (? n. sp.) Sproston, 1946, p. 199

Gills and fins of *Pleuronectes platessa*, Feb. 1940 (N.G.S.)

Family **Dactylogyridae**

AMPHIBDELLOIDES MACCALLUMI (Johnston and Tiegs, 1922) [Dawes, 1947, p. 34]

Gills of *Torpedo nobiliana* (N.G.S.)

* See under Gaidropsarus, p. 392.

DIPLECTANUM AEQUANS (Wagner, 1857) [Dawes, 1947, p. 37]
On the gills of *Morone labrax* (J.L.)

Family **Udonellidae**

UDONELLA CALIGORUM Johnston, 1835 [Dawes, 1947, p. 55]
Attached to *Caligus centrodonti* and *C. labracis* parasitic on *Labrus bergylta*, 1939-40 (N.G.S.): numerous young specimens on a *Caligus* (probably *C. rapax*), Jan. 1932 (F.S.R., det. H.A.B.)

Family **Microbothriidae**

LEPTOCOTYLE MINOR (Monticelli, 1888) [Dawes, 1947, p. 52]
Skin of *Scyliorhinus canicula* (Jones, 1933b, p. 329, as *Microbothrium caniculae*)

PSEUDOCOTYLE SQUATINAE Van Beneden and Hesse, 1865 [Dawes, 1947, p. 53]
Skin of *Squatina squatina* (W.N., N.G.S.)

Family **Monocotylidae**

CALICOTYLE KROYERI Diesing, 1850 [Dawes, 1947, p. 44]
Cloaca of *Raia circularis*, *R. clavata* and *R. montagui* (W.N., H.A.B., M.L.R., N.G.S., B.D.)

DICTYOCOTYLE COELIACA Nybelin, 1941, p. 1 [Hunter and Kille, 1950, p. 15]
In the coelom of *Raia naevus*, about 28 per cent infected, May 1955 to July 1956 (J.L., J.Gr.)

Family **Capsalidae**

CAPSALA MARTINIERI Bosc, 1811 [Dawes, 1947, p. 69]
Skin of *Mola mola*, July, 1937 (J.W.R., det. S.Pr.)

ENTOBDELLA SOLEAE (Van Beneden and Hesse, 1863) [Dawes, 1947, p. 75]
Skin of *Solea solea* (A.J.S., M.V.L., H.A.B., M.L.R., N.G.S., B.D.)

Family **Acanthocotylidae**

ACANTHOCOTYLE sp. (? LOBIANCHI Monticelli, 1888) [Dawes, 1947, p. 61]
Skin of *Raia batis* (H.R.H., det. H.A.B.)

ACANTHOCOTYLE MONTICELLI Scott, 1902 [Dawes, 1947, p. 58]
Skin of *Raia clavata* and *R. maculata* (= *montagui*); Baylis and Jones, 1933, p. 629, as *Acanthocotyle* sp. (= *A. monticellii* according to Sproston, 1946, p. 334)

Family **Hexabothriidae**

ERPOCOTYLE LAEVIS Van Beneden and Hesse, 1863 [Dawes, 1947, p. 83]
Gills of *Mustelus mustelus* (B.D.)

HEXABOTHRIUM CANICULAE (Cerfontaine, 1899) [Dawes, 1947, p. 81]
Gills of *Scyliorhinus canicula* (N.G.S.)

PLATYHELMINTHES: TREMATODA

RAJONCHOCOTYLE BATIS Cerfontaine, 1899 [Dawes, 1947, p. 88]
Gills of *Raia batis* (B.D.)

RAJONCHOCOTYLOIDES EMARGINATA (Olsson, 1876) [Dawes, 1947, p. 90]
Gills of *Raia clavata* and *R. brachyura*, May 1932 (H.A.B.)

Family **Mazoeraeidae**

KUHNIA MINOR (Goto, 1894) [Sproston, 1945, p. 181]
Gills of *Scomber scombrus* (N.G.S.)

KUHNIA SCOMBRI (Kuhn, 1829) [Sproston, 1945, p. 176]
Gills of *Scomber scombrus* (W.N., H.A.B., N.G.S.)

MAZOCRAËS ALOSAE Hermann, 1782 [Dawes, 1947, p. 138]
Gills of *Alosa fallax* (W.N., E.I.J., N.G.S.)

MAZOCRAËS HARENGI (Van Beneden and Hesse, 1863) [Dawes, 1947, p. 139]
Gills of *Clupea harengus* (W.N.): of *Alosa alosa* (E.I.J.)

Family **Discocotylidae**

ANTHOCOTYLE MERLUCCII Van Beneden and Hesse, 1863 [Dawes, 1947, p. 130]
Gills of *Merluccius merluccius*, Aug.-Sept. 1933 (W.H.L.-S.): 1939-41 (N.G.S.)

PLECTANOCOTYLE GURNARDI (Van Beneden and Hesse, 1863) [Dawes, 1947, p. 133]
Gills of *Trigla cuculus* (W.N.): gills of *Trigla gurnardus*, *T. lucerna*, *T. cuculus* and *T. lineata*, 1939-41 (N.G.S.)

Family **Microcotylidae**

AXINE BELONES Abildgaard, 1794 [Dawes, 1947, p. 121]
Gills of *Belone belone* (W.N., N.G.S.): abundant in several specimens of *B. belone* det. H.A.B.)

GASTROCOTYLE TRACHURI Van Beneden and Hesse, 1863 [Dawes, 1947, p. 123]
Gills of *Trachurus trachurus*, Aug. 1932 (E.I.J.): Aug. 1933 (W.H.L.-S.): Nov. 1933 (M.L.R., det. H.A.B.): Aug. 1939 (N.G.S.)

MICROCOTYLE DONAVINI Van Beneden and Hesse, 1863 [Dawes, 1947, p. 118]
Gills of *Labrus bergylta* (N.G.S.)

MICROCOTYLE DRACONIS Briot, 1904, p. 126
Gills of *Trachinus draco* (Nicoll, 1914, p. 497)

MICROCOTYLE FUSIFORMIS Goto, 1894, p. 192
Gills of *Pholis gunnellus* 4.7.40 (N.G.S.)

MICROCOTYLE LABRACIS Van Beneden and Hesse, 1863 [Dawes, 1947, p. 118]
On the gills of two *Morone labrax* out of three examined (Llewellyn, 1956, p. 117)

MICROCOTYLE Sp. (? CENTRODONTI Brown, 1929 [Sproston, 1946, p. 429]
Gills of *Pagellus centrodontus*, Aug-Sept. 1939-40 (N.G.S.)

PSEUDAXINE TRACHURI Parona and Perugia, 1890, p. 235
Gills of *Trachurus trachurus*, Nov. 1933 (M.L.R., det. H.A.B.): 21.8.39 (N.G.S.)

Family **Diclidophoridae**

CHORICOTYLE CHRYSOPHRYI Van Beneden and Hesse, 1863 [Dawes, 1947, p. 110, as Cyclocotyla]
Several on gills of *Pagellus centrodonatus*, June 1933 (E.I.J.)

DICLIDOPHORA DENTICULATA (Olsson, 1876) [Dawes, 1947, p. 97]
Gills of *Gadus virens*, May 1934 (N.G.S.): *Gadus minutus* (B.D.): *Merluccius Merluccius* (E.I.J.): incomplete specimen in stomach of *Trigla lyra*, 20.3.33 (M.L.R., det. H.A.B.)

DICLIDOPHORA LUSCAE (Van Beneden and Hesse, 1863) [Dawes, 1947, p. 102]
Gills of *Gadus luscus* and *Gadus minutus* (M.D.M.)

DICLIDOPHORA MERLANGI (Kuhn, in Nordmann, 1832) [Dawes, 1947, p. 95]
Gills of *Gadus merlangus* (W.N., E.I.J., M.L.R., det. H.A.B., N.G.S., B.D.)

DICLIDOPHORA PHYCIDIS (Parona and Perugia, 1889, p. 743, as Dactylocotyle)
Gills of *Urophycis blennoides*, 5.9.32 (M.L.R., det. H.A.B.)

DICLIDOPHORA POLLACHII (Van Beneden and Hesse, 1863) [Dawes, 1947, p. 103]
Gills of *Gadus pollachius* (J.L.)

DICLIDOPHORA PALMATA (Leuckart, 1830) [Dawes, 1947, p. 104, as Octodactylus]
Gills of *Molva molva* (W.N., B.D.)

Order DIGENEA

Family **Allocreadiidae**

CAINOCREADIUM LABRACIS (Dujardin, 1845) [Dawes, 1947, p. 164]
6 specimens in one *Morone labrax*, the only one examined (W.N.)

HELICOMETRA FASCIATA. (Rudolphi, 1819) [Dawes, 1947, p. 169]
Intestine of *Crenilabrus melops* (M.L.R., det. H.A.B., E.I.J.)

HELICOMETRA PULCHELLA (Rudolphi, 1819) [Dawes, 1917, p. 171]
Intestine of *Serranus cabrilla*, *Trigla hirundo*, *Gobius paganellus*, *Blennius pholis*, *Blennius gattorugine*, *Lepadogaster gouani*, *Labrus ossifagus*, *Labrus bergylta*, *Ctenolabrus rupestris*, *Zeugopterus punctatus*, *Anguilla anguilla*, *Conger conger*; chiefly in gobies and blennies (W.N.): in *Trigla lucerna* (M.L.R., det. H.A.B., E.I.J.): in *Trigla cuculus* (M.L.R., det. H.A.B., J.S.S., det. S.Pr.): in *Trigla lineata*, May 1932 (H.A.B.): in *Serranus cabrilla* (E.I.J.)

LEPIDAPEDON RACHION (Cobbold, 1858) [Dawes, 1947, p. 182]
Frequent in intestine of *Gadus pollachius* (W.N.): 16 specimens in an unidentified wrasse (B.D.)

LEPIDAUCHEN STENOSTOMA Nicoll, 1913, p. 240
2 specimens in intestine of *Labrus bergylta* (W.N.)

PLATYHELMINTHES: TREMATODA

OPECHONA BACILLARIS (Molin, 1859) [Dawes, 1947, p. 186]

Frequently in intestine of *Scomber scombrus*, *Gadus merlangus*, *Capros aper*, *Cyclopterus lumpus*, commonest in *Scomber*; late larva in tow-net, Aug. (W.N.): in *Onos mustelus*, *Scophthalmus rhombus* and *Clupea sprattus* (Lebour, 1918, p. 517): in various coelenterates, *Obelia* (medusa), *Cosmetira pilosella*, *Leuckartiara octona*, *Phialidium hemisphaericum*, *Pleurobrachia pileus*, also in *Sagitta*, spring and summer; free-swimming cercariae in tow-net, winter and spring, Sound and outside (Lebour, 1916, p. 57, and 1917, p. 203)

OPECHONA RETRACTILIS (Lebour, 1908) [Dawes, 1947, p. 187]

Stomach and intestine of *Gadus merlangus* (B.D.)

PERACREADIUM COMMUNE (Olsson, 1876) [Dawes, 1947, p. 167]

3 specimens only in *Labrus bergylta* and *Crenilabrus melops* (W.N.)

PERACREADIUM GENU (Rudolphi, 1819) [Dawes, 1947, p. 166]

Occurred twice in intestine of *Labrus bergylta*; one immature in *Blennius pholis*, either belonging to this or *P. commune* (W.N.)

PLAGIOPORUS ALACER (Looss, 1901) [Dawes, 1947, p. 172]

Frequent in intestine of *Ctenolabrus rupestris*, *Centrolabrus exoletus* and *Crenilabrus melops*, once only in *Labrus bergylta* (W.N.)

PLAGIOPORUS VARIUS (Nicoll, 1910) [Dawes, 1947, p. 173]

Fairly common in intestine of *Callionymus lyra* (W.N.): in *Callionymus lyra* and *Labrus ossifagus* (2 out of 4 specimens), May 1932 (H.A.B.): in *C. lyra*, 1932 (J.S.R., det. S.Pr.): in *Labrus bergylta* (E.I.J.): in *Zeus faber* (B.D.)

PODOCOTYLE ATHERINAE (Sp. inq.) [Nicoll, 1914, p. 474]

Intestine of *Atherina presbyter* (W.N.)

PODOCOTYLE ATOMON (Rudolphi, 1802) [Dawes, 1947, p. 178]

Intestine of *Gobius flavescens*, *Pholis gunnellus*, *Cottus bubalis*, *Liparis montagui*, *Spinachia spinachia*, *Gadus merlangus*, *Platichthys flesus*, *Phrynorhombus norvegicus*, *Entelurus aequoreus*, *Anguilla anguilla* (W.N.): stomach of *Syngnathus acus*, trawled N. of Drake's Island, 17.9.31 (E.I.J.): intestine of *Cottus bubalis*, May 1932 (H.A.B.)

PODOCOTYLE REFLEXA (Creplin, 1825) [Dawes, 1947, p. 181]

Common in intestine of *Spinachia spinachia* and *Onos mustelus* (W.N.): intestine of *Spinachia spinachia*, May 1932 (H.A.B.): intestine of *Onos tricirratu*s* (E.I.J.)

PODOCOTYLE SYNGNATHI Nicoll, 1913 [Dawes, 1947, p. 177]

Frequent in intestine of *Syngnathus acus*, *Siphonostoma typhle* and *Entelurus aequoreus* (W.N.): 1 specimen in intestine of *Entelurus aequoreus*, May 1932 (H.A.B.)

* See under *Gaidropsarus*, p. 392.

PLATYHELMINTHES: TREMATODA

Family **Acanthocolpidae**

STEPHANOSTOMUM CADUCUM (Looss, 1901) [Dawes, 1947, p. 200]

Probably this species is duodenum and pyloric caeca of *Gadus luscus*; immature specimen in *Gadus minutus* (W.N.)

STEPHANOSTOMUM CESTICILLUS (Molin, 1858) [Dawes, 1947, p. 199]

Stomach of *Zeus faber*, 4 specimens (W. N.)

Family **Acanthostomatidae**

ACANTHOSTOMUM IMBUTIFORME (Molin, 1859) [Dawes, 1947, p. 212]

About 30 specimens in intestine of *Morone labrax*; larval stage of what is probably this species encysted in gills of pipe-fish, *Siphonostoma typhle*; 1 larva among stomach contents of *Gadus merlangus* (W.N.)

Family **Heterophyiidae**

GALACTOSOMUM LACTEUM (Jägerskiöld, 1896) [Prudhoe, 1949, p. 138]

50 specimens in intestine of a cormorant (*Phalacrocorax carbo*) of Penlee Point, May 1936, and many specimens in each of two shags (*Phalacrocorax aristotelis*) in Wembury Bay, V, February 1937 (W.J.R.)

Family **Ptychogonimidae**

PTYCHOGONIMUS MEGASTOMA (Rudolphi, 1891) [Dawes, 1947, p. 220]

Stomach of 4 out of 6 specimens of *Mustelus mustelus* (W.N.): stomach of *Mustelus mustelus* (E.I.J)

Family **Monorchidae**

MONORCHIS MONORCHIS (Stossich, 1890) [Dawes, 1947, p. 224]

2 specimens in intestine of *Blennius gattorugine* (W.N.)

Family **Accacoeliidae**

ACCACLADOCOELIUM ALVEOLATUM Robinson, 1934, p. 346

SALCOMBE Intestine of *Mola mola*, June 1933 (V.C.R.)

Family **Didymozoidae**

DIDYMOZOON FACIALE Baylis, 1938, p. 486

Occurring in cysts beneath the transparent outer skin of the head, behind the eye, of *Scomber scombrus*, 1936-7 (M.L.R., P.G.C. and W.J.R., all material det. H.A.B.)

DIDYMOZOON SCOMBRI Taschenberg, 1879 [Dawes, 1947, p. 237]

Occurring in cysts in pharyngeal and branchial regions of *Scomber scombrus*, 1936-7 (L.A.H. and P.G.C., det H.A.B.)

PLATYHELMINTHES: TREMATODA

Family **Zoogonidae**

ZOOGONOIDES VIVIPARUS (Olsson, 1868) [Dawes, 1947, p. 244]

Rectum and intestine of *Zeus faber*, *Blennius gattorugine*, *B. ocellaris*, *Solea solea*, *S. variegata* (W.N.): rectum of *Callionymus lyra* and *Microstomus kitt* (E.I.J.): immature specimens in rectum of *Pleuronectes platessa*, May 1932 (H.A.B.): in *P. platessa* (B.D.): sporocysts and cercariae very common in digestive gland of *Buccinum undatum*, trawling grounds (Lebour, 1918, p. 515)

ZOOGONUS ? RUBELLUS (Olsson, 1868) [Dawes, 1947, p. 248]

Immature specimens in intestine of *Limanda limanda* and *Labrus ossifagus*, May 1932 (H.A.B.)

ZOONOGENUS VIVIDUS Nicoll, 1912, p. 200

Rectum of 5 out of 8 specimens of *Pagellus centrodontus*, July-Aug. (W.N.)

Family **Haploporidae**

HAPLOPORUS BENEDENI (Stossich, 1887) [Dawes, 1947, p. 251]

A few specimens in intestine of *Mugil labrosus* (W.N.)

SACCOCOELIUM OBESUM Looss, 1902 [Dawes, 1947, p. 253]

A few specimens (with *Haploporus benedeni*) in intestine of *Mugil labrosus* (W.N.)

Family **Fellodistomatidae**

BACCIGER BACCIGER (Rudolphi, 1819) [Dawes, 1947, p. 261]

On two occasions, 1 specimen in stomach of *Atherina presbyter* received in London from Plymouth (Nicoll, 1914, p. 481)

STERINGOPHORUS FURCIGER (Olsson, 1868) [Dawes, 1947, p. 257]

Immature specimens in stomach and intestine of *Limanda limanda*, May 1932 (H.A.B.)

STERINGOTREMA CLUTHENSE (Nicoll, 1909) [Dawes, 1947, p. 259]

Duodenum of *Limanda limanda* and *Microstomus kitt* (W.N.): immature specimens in intestine of same host-species, May 1932 (H.A.B.)

STERINGOTREMA DIVERGENS (Rudolphi, 1809) [Dawes, 1947, p. 260]

In large numbers in duodenum of *Blennius ocellaris* (W.N.): stomach and intestine of *B. ocellaris*, each of three specimens, May 1932 (H.A.B.)

TERGESTIA LATICOLLIS (Rudolphi, 1819) [Dawes, 1947, p. 266]

Frequently in intestine of *Trachurus trachurus* (W.N.): stomach of *Scomber scombrus* (P.G.C., det. H.A.B.)

Family **Bunoderidae**

BUNODERA LUCIOPERCAE (Müller, 1776) [Dawes, 1947, p. 269]

A few specimens in intestine of *Salmo trutta*, River Yealm (W.N., as *Bunodera nodulosa*)

PLATYHELMINTHES: TREMATODA

Family **Hemiuridae****DEROGENES VARICUS** (Müller, 1784) [Dawes, 1947, p. 300]

Very common; stomach of *Mullus surmuletus*, *Pagellus centrodonatus*, *Trachurus trachurus*, *Capros aper*, *Zeus faber*, *Trachinus vipera*, *T. draco*, *Lophius piscatorius*, *Cottus bubalis*, *Agonus cataphractus*, *Callionymus lyra*, *Trigla lucerna*, *T. gurnardus*, *Cyclopterus lumpus*, *Blennius ocellaris*, *Gadus luscus*, *G. minutus*, *G. merlangus*, *G. pollachius*, *Molva molva*, *Onos tricirratu*s, * *Scophthalmus maximus*, *Platichthys flesus*, *Limanda limanda*, *Solea solea*, *Salmo trutta*, *Conger conger* (W.N.): stomach of *Trigla cuculus* and mouth of *Coitus bubalis* (E.I.J.): stomach of *Gadus merlangus* and *Merluccius merluccius*, and stomach and intestine of *Lophius piscatorius*, May 1932 (H.A.B.): in *Limanda limanda*, *Microstomus kitt*, *Solea variegata*, *Gadus minutus*, *G. Merlangus* and *Callionymus lyra*, immature specimens in *Arnoglossus* .sp. and *Phrynorhombus norvegicus* (M.V.L.): in *Pleuronectes platessa*, *Gadus pollachius*, *G. luscus*, *G. merlangus* and *Callionymus lyra* (B.D.)

DEROGENOIDES OVACUTUS Nicoll, 1913, p. 243

Once in stomach of *Trachinus draco* W.N

HEMIPERA OVOCAUDATA Nicoll, 1913, p. 242

Stomach of *Lepadogaster gouani* (W.N.): mouth of *Onos mustelus* and *O. tricirratu*s,* rock-pools, Wembury Bay, 1.9.32 (E.I.J.)

HEMIPERA SHARPEI Jones, 1933a, 9, 252

Under gill-cover of 1 out of 12 *Cepola rubescens* trawled from 30 fm. (E.I.J.)

HEMIURUS COMMUNIS Odhner, 1905 [Dawes, 1947, p. 278]

Very common; stomach and intestine of *Capros aper*, *Lophius piscatorius*, *Cottus bubalis*, *Trigla lucerna*, *T. gurnardus*, *Gobius paganellus*, *Lepadogaster gouani*, *Gadus luscus*, *G. merlangus*, *G. minutus*, *G. pollachius*, *Ammodytes lanceolatus*, *Molva molva*, *Zeugopterus punctatus*, *Entelurus aequoreus* (W.N.): stomach of *Cottus scorpius* (E.I.J.): stomach of *Lophius piscatorius*, *Molva molva*, *Gadus merlangus*, *Trigla lineata*, *Conger conger*, May 1932 (H.A.B.): larval form emerging from *Acartia clausi* inside Sound, Feb. 1923 and June 1935, one outside, May 1921 (M.V.L.)

HEMIURUS OCREATUS (Rudolphi, 1802) [Dawes, 1947, p. 277]

Common in stomach of *Sardina pilchardus*; once in each of *Trachurus trachurus*, *Capros aper*, *Scomber scombrus*, *Gadus merlangus*, *G. pollachius* (W.N.)

LECITHASTER GIBBOSUS (Rudolphi, 1802) [Dawes, 1947, p. 296]

Intestine and rectum of *Serranus cabrilla*, *Trachurus trachurus*, *Zeus faber*, *Trachinus vipera*, *Trigla lucerna*, *Gadus merlangus*, *Phrynorhombus norvegicus* (W.N.): intestine of 2 out of 4 specimens of *Cepola rubescens*; immature specimen (?) in intestine of *Phrynorhombus norvegicus*, May 1932 (H.A.B.)

See under *Gaidropsarus*, p. 392.

PLATYHELMINTHES: TREMATODA

- LECITHOCHIRIUM FURCOLABIATUM** (Jones, 1933) [Dawes, 1947, p. 291]
Coelom of *Onos mustelus*, rock-pools, Wembury Bay, 1.9.32 (Jones, 1933a, p. 248, as *Ceratotrema furcolabiata*)
- LECITHOCHIRIUM GRAVIDUM** Looss, 1907 [Dawes, 1947, p. 290]
Stomach of *Conger conger* (each of 3 specimens), May 1932 (H.A.B.)
- LECITHOCHIRIUM RUFOVIRIDE** (Rudolphi, 1819) [Dawes, 1947, p. 287]
Stomach of *Anguilla anguilla*, *Conger conger* and *Lophius piscatorius*, very common in first two species (W.N.): stomach of *Conger conger* (each of 3 specimens), May 1932 (H.A.B.): stomach of *C. conger* (M.L.R., det. H.A.B.; J.S.S., det. S.Pr.): stomach of *Lophius piscatorius* (E.I.J., B.D.): encysted stage frequent in *Blennius pholis* (W.N.)
- LECITHOCLADIUM EXCISUM** (Rudolphi, 1819) [Dawes, 1947, p. 284]
Stomach of *Scomber scombrus* (W.N., P.G.C., det. H.A.B.): stomach of *S. scombrus* (E.I.J.)
- STERRHURUS FUSIFORMIS** (Lühe, 1901) [Dawes, 1947, p. 286]
Stomach of *Conger conger*, *Lophius piscatorius* (E.I.J.): in *L. piscatorius* (B.D.)
- SYNAPTOBOTHRIUM CAUDIPORUM** (Rudolphi, 1809) [Dawes, 1947, p. 292]
Stomach of 3 out of 5 specimens of *Trigla lucerna*; once in each of *Zeus faber* and *Lophius piscatorius* (W.N.): stomach of *Scophthalmus rhombus* and *Conger conger* (E.I.J.): 1 specimen (?) in stomach of *Trigla lucerna*, May 1932 (H.A.B.): stomach of *Lophius piscatorius*, *Pleuronectes platessa*, *Gadus luscus*, *G. callarias* (B.D.): encysted larvae in a small *Labrus bergylta*, with those of *Lecithochirium rufoviride*, in the liver and intestinal wall; also 2 cysts in the intestinal wall of *Crenilabrus melops* (W.N.)

Family **Bucephalidae**

- BUCEPHALOPSIS GRACILESCENS** (Rudolphi, 1819) [Dawes, 1947, p. 152]
Very common in stomach and intestine of *Lophius piscatorius* (W.N., H.A.B., M.L.R., det. H.A.B., J.S.S., det. S.Pr., B.D.): 2 specimens in stomach of *Conger conger*, possibly accidental (H.A.B.): metacercariae encysted in ear-sacs of *Gadus minutus* (M.D.M.): sporocysts and cercariae in *Cardium edule*, 2 out of 3 dozen infected, River Yealm, 4.9.12 (J.H.O., M.V.L.): also frequently in other local *Cardium edule* (M.V.L.): in 2 per cent of *Cardium edule* from Millbrook Lake, 26.8.32 (M.L.R.): in 26.4 per cent of *Cardium edule* from Millbrook Lake (Hutton, 1952, p. 319, as *Bucephalus haimeanus*)
- PROSORHYNCHUS CRUCIBULUM** (Rudolphi, 1819) [Dawes, 1947, p. 159]
Intestine of *Conger conger* (W.N.): intestine of 3 out of 4 *C. conger* (Nicholl, 1910, p. 350, as *Prosorhynchus aculeatus*); duodenum of *Cottus bubalis* (Nicholl, 1914, p. 494, as *Prosorhynchus squamatus*): intestine of *Trigla gurnardus* (Nicholl, 1914, p. 495, as *Prosorhynchus triglae*): stomach intestine and rectum of *C. conger*, May 1932 (H.A.B., in Baylis and Jones, 1933, p. 630, as *P. aculeatus*); intestine of *C. conger*; immature specimen (?) in intestine of *Lophius piscatorius*, May 1932 (H.A.B.)

RHIPIDOCOTYLE GALEATA (Rudolphi, 1819) [Dawes, 1947, p. 157]

Intestine of *Trigla gurnardus*, *T. lucerna*; also in pyloric caeca of *T. lucerna* (Nicoll, 1914, p. 492, as *Rhipidocotyle minima*); intestine of *Trachinus draco* (Nicoll, 1914, p. 493, as *Rhipidocotyle viperae*); intestine of *Trigla lucerna*, *T. cuculus*, May 1932 (H.A.B., in Baylis and Jones, 1933, p. 630, as *R. minima*)

*Larval Forms*CRYPTOCOTYLE LINGUA (Creplin, 1825) [Lebour, 1912, p. 451, as *Cercaria lophocerca*, Rothschild, 1939a, p. 178]

Cercariae abundant in *Littorina littorea*, Drake's Island and Trevol, July 1935 (Rees, 1936a, p. 358, as *Cercaria lophocerca* of Lebour, 1907): cercariae in 5 per cent. of *L. littorea*, Rum Bay, 12.9.32 (M.L.R.)

HIMASTHLA LEPTOSOMA (Creplin, 1829) [Lebour, 1912, p. 444, as *Echinostomum secundum*]

Cercariae in *Littorina littorea* (1 out of 220 specimens), Drake's Island, July 1935 (Rees, 1936a, p. 358, as *Himasthla secunda*): in *L. littorea*, Rum Bay, May 1932 (M.L.R.)

HAPLOCLADUS sp. (? TYPICUS Odhner, 1911) [Rees, 1947, p. 602]

Cercariae in digestive gland and gonad of *Nucula nucleus* (12 out of 16 specimens), Cawsand Bay, 21.4.36 (W.J.R.)

MARITREMA sp. Rothschild, 1937, p. 355

Cercariae frequent in *Hydrobia ulvae*, 1933 (Rothschild, 1936, p. 539, as *Cercaria oocysta*)

SPELOTREMA EXCELLENS Nicoll, 1907 [Lebour, 1912, p. 431]

Cercaria encysted in *Carcinus maenas*; very common (M.V.L.): cercariae in 4 per cent. of *Littorina littoralis*, Rum Bay, Sept. 1932 (M.L.R.): in *Hydrobia ulvae*, 1933 (Rothschild, 1936, p. 537, as *Cercaria ubiquita*); in *Hydrobia ulvae*, St. John's Lake, June 1937 (Rothschild, 1938b, p. 93, as *C. ubiquita*)

"METACERCARIA. A." Lysaght [Lysaght, 1941, p. 60; Rothschild, 1941, p. 70]

Encysted in *Littorina neritoides*, Plymouth Breakwater (A.M.L., M.L.R.)

CERCARIA CAMBRENSIS Cole, 1938, p. 40

Sporocysts in *Cardium edule*, Millbrook Lake (R.F.H.)

CERCARIA CORONANDA Rothschild, 1938c, p. 156

Liver and gonads of 2 out of several thousand specimens of *Hydrobia ulvae*, Tamar Saltings, June 1937 (M.L.R.)

CERCARIA DORICHA Rothschild, 1935, p. 165

Gonads of *Turritella communis*, Rame Mud, 1932-4 (M.L.R.): this or a closely related species encysted in mesenteric tissue connecting pyloric caeca of *Gadus luscus* (2 out of 6 specimens), Rame Mud, 3.9.40 (Rothschild and Sproston, 1941, p. 359)

CERCARIA EPHEMERA Lebour, 1907 (*nec* Niesch) [Lebour, 1912, p. 451]

Frequently in medium-sized specimens of *Hydrobia ulvae* (M.L.R.)

PLATYHELMINTHES: TREMATODA

- CERCARIA FULBRIGHTI Hutton, 1952, p. 317
Sporocysts and cercariae of Gymnophallus in *Cardium edule*, Millbrook Lake (R.F.H.)
- CERCARIA HERPSYLLIS Rothschild, 1935, p. 164
Gonads of *Turritella communis*, Rame Mud, 1932-4 (M.L.R.)
- CERCARIA LITTORINAE Rees, 1936a, p. 358
Once in 550 specimens of *Littorina littorea*, Trevol, July 1935 (W.J.R.)
- CERCARIA NEPTUNEAE (sp. inq.) Lebour, 1912, p. 440
Very common in digestive gland of *Buccinum undatum*, trawling grounds (M.V.L.)
- CERCARIA NICARETE Rothschild, 1935, p. 166
Gonads of *Turritella communis*, Rame Mud, 1932-4 (M.L.R.)
- CERCARIA TURRITELLAE Hutton, 1955, p. 249
Digestive gland and gonad of *Turritella communis*, Plymouth Sound, Nov. 1952 (R.F.H.)
- CERCARIA PIRUM Lebour, 1907 [*Lebour*, 1912, p. 436]
In *Hydrobia ulvae* (M.L.R.)
- CERCARIA PYTHIONIKE Rothschild, 1935, p. 155
Gonads of *Turritella communis*, Rame Mud, 1932-4 (M.L.R.)
- CERCARIA REESI Hutton, 1953, p. 581
Sporocysts and cercariae in *Hiatella arctica*, Drake's Island, May August 1952, and *H. striata* dredged from Plymouth Sound, June-July 1952 (R.F.H.)
- CERCARIA SINITZINI Rothschild, 1938a, p. 42
Once in 2,000 specimens of *Hydrobia ulvae*, St. John's Lake, April 1936 (R.F.H.)
- "CERCARIA B" Lysaght, 1941, p. 61
Sporocysts and cercariae in *Littorina neritoides*, Plymouth Breakwater (Lysaght, 1941; Rothschild, 1941, p. 70)
- "CERCARIA C" Lysaght, 1941, p. 63
Sporocysts and cercariae in *Littorina neritoides*, Plymouth Breakwater (A.M.L.)
- "CERCARIA D" Lysaght, 1941, p. 63
Rediae and cercariae in *Littorina neritoides*, Plymouth Breakwater (A.M.L.)
- "Sporocyst and cercaria" Jones and Rothschild, 1932, p. 260
In 2 per cent. of *Nucula nucleus* dredged from 25-30 fm., Mewstone Grounds, May 1931 (E.I.J. and M.L.R.)
- Cercariae (*pleurolophocerca* group) Rothschild, 1938b, p. 98
In *Hydrobia ulvae*, Tamar Saltings and St. John's Lake (M.L.R.): in *Littorina littoralis* (Rothschild, 1939a, p. 178),

- Cercariae (*ubiquita* group) Rothschild, 1938*b*, p. 98
In *Hydrobia ulvae*, Tamar Saltings and St. John's Lake (M.L.R.)
- Cercariae (*echinostome* group) Rothschild, 1938*b*, p. 98
In *Hydrobia ulvae*, Tamar Saltings and St. John's Lake (M.L.R.)
- Cercariae (*notocotylid* group) Rothschild, 1938*b*, p. 98
In *Hydrobia ulvae*, Tamar Saltings and St. John's Lake (M.L.R.)
- Cercariae (*oocysta* group) Rothschild, 1938*b*, p. 99
In *Hydrobia ulvae*, Tamar Saltings and St. John's Lake (M.L.R.)
- Cercariae (*metentera* group) Rothschild, 1938*b*, p. 99
In *Hydrobia ulvae*, Tamar Saltings and St. John's Lake (M.L.R.)
- Allocreadiid cercaria Rothschild, 1939*b*, p. 376
In *Hydrobia ulvae*, St. John's Lake (M.L.R.)

Class **CESTODA**

Order BOTHRIOCEPHALIDEA

Family **Bothriocephalidae**

- BOTHRIOCEPHALUS SCORPII** (Müller, 1776) (=BIPUNCTATUS Zeder) [*Joyeux and Baer*, 1936, p. 152]
Intestine of *Phrynorhombus norvegicus*, *Arnoglossus laterna* (each of 2 specimens), *Cottus bubalis* (attached to pyloric caeca); a fragment in stomach of *Merluccius merluccius*, probably accidental, May 1932 (H.A.B.): in *Gadus pollachius*, 1932 (J.S.S., det. H.A.B.): in *Cottus scorpius* (L.A.H., det. H.A.B.): in *Scophthalmus rhombus* and *S. maximus*, Aug.-Sept. 1932 (M.L.R., det. H.A.B.)

Family **Triaenophoridae**

- ANCHISTROCEPHALUS MICROCEPHALUS** (Rudolphi, 1819) [*Joyeux and Baer*, 1936, p. 161]
SALCOMBE. Intestine of *Mola mola*, July 1933 (V.C.R.)

Family **Amphicotyliidae**

- PARABOTHRIUM BULBIFERUM** Nybelin, 1922 [*Woodland*, 1927*a*, p. 241]
3 specimens in intestines of 3 *Gadus pollachius* (W.N.F.W.)

Order TETRARHYNCHIDEA

Family **Tentaculariidae** (=Tetrarhynchidae)

- EUTETRARHYNCHUS RUFICOLLIS** (Eysenhardt, 1829) [*Dollfus*, 1942, p. 199]
Intestine of *Mustelus mustelus* (L.A.H., det. H.A.B.)
- GRILLOTIA ERINACEUS** (Van Beneden, 1858) [*Dollfus*, 1942, p. 348]
Spiral valve of *Raia clavata*. May 1932 (H.A.B.): larva in *Gadus merlangus* and *Conger conger*, 1932 (J.S.S., det. H.A.B.): larva in *Scophthalmus rhombus*, Sept. 1933 (M.L.R., det. H.A.B.)

PLATYHELMINTHES: CESTODA

NYBELINIA LINGUALIS Cuvier, 1817 [*Dollfus*, 1941, p. 149]
Larvae encysted on oesophagus of *Arnoglossus laterna*, May 1954 (A.A.)

Order TAENIIDEA

Family **Onchobothriidae**

ACANTHOBOTHRIMUM CORONATUM (Rudolphi, 1819) [*Woodland*, 1927b, p. 530]
Spiral valve of *Scyliorhinus stellaris* (W.N.F.R., H.A.B.): spiral valve of *S. stellaris* (J.S.S., det. H.A.B.)

ACANTHOBOTHRIMUM DUJARDINI Van Beneden, 1849 [*Woodland*, 1927b, p. 531]
Numerous specimens in *Raia montagui* (W.N.F.W.)

CALLIOBOTHRIMUM VERTICILLATUM (Rudolphi, 1819) [*Woodland*, 1927b, p. 530]
Intestine of *Mustelus Mustelus* (W.N.F.W., E.I.J., M.L.R., det. H.A.B.)

ONCHOBOTHRIMUM UNCINATUM Rudolphi, 1819 [*Woodland*, 1927b, p. 531 as *Onchobothrium pseudo-uncinatum*]
Several specimens in *Raia montagui* (W.N.F.W.): in *Mustelus mustelus*, (L.A.H., det. H.A.B.)

Family **Phyllobothriidae**

ANTHOBOTHRIMUM CORNUCOPIA Van Beneden, 1850 [*Woodland*, 1927b, p. 527]
Two fully mature specimens and a number of free proglottids in *Galeorhinus galeus* (W.N.F.W.)

DINOBOTHRIMUM KEILINI Sproston, 1948, p. 80
Mature specimen in spiral valve of *Carcharhinus glaucus*, Nov. 1945 (N.G.S.)

DINOBOTHRIMUM PACIFERUM Sproston, 1948, p. 83
Spiral valve of *Cetorhinus maximus*, Cawsand Bay, June 1946 (N.G.S.)

DINOBOTHRIMUM PLANUM Linton, 1922 [*Sproston*, 1948, p. 78]
In *Cetorhinus maximus*, Cawsand Bay, June 1946 (N.G.S.)

DINOBOTHRIMUM SEPTARIA Van Beneden, 1889 [*Woodland*, 1927a, p. 231]
In spiral valve of a small *Lamna cornubica* (W.N.F.W.)

ECHENEIBOTHRIMUM DUBIUM Van Beneden, 1858 [*Woodland*, 1927b, p. 519, as *Echeneibothrium maculatum*]
Fairly common in *Raia montagui* (W.N.F.W.)

ECHENEIBOTHRIMUM FALLAX Van Beneden, 1871 [*Woodland*, 1927b, p. 522]
In *Raia clavata* and *Raia montagui* (W.N.F.W.)

?ECHENEIBOTHRIMUM TUMIDULUM (Rudolphi, 1819) [*Woodland*, 1927b, p. 522, as *Echeneibothrium variabile*]
In *Raia clavata* and *Raia montagui* (W.N.F.W.): spiral valve of *Raia clavata* (1 in each of 2 out of 5 specimens), May 1932 (H.A.B.): in *Raia montagui*, 1932 (J.S.S., det. H.A.B.)

MONORYGMA sp. innom. Sproston, 1948, p. 88
1 immature specimen in *Torpedo nobiliana*, May 1945 (N.G.S.)

PLATYHELMINTHES: CESTODA

ORYGMATOBOTHRIMUM MUSTELI (Van Beneden, 1850) [Woodland, 1927b, p. 529]

More than 40 specimens from *Mustelus mustelus* (W.N.F.W.): intestine of *M. vulgaris*, Sept. 1932 (M.L.R., det. H.A.B.)

PHYLLOBOTHRIMUM LACTUCA Van Beneden, 1850 [Woodland, 1927b, p. 527]

Intestine of *Hexanchus griseus*, 30.3.33 (G.A.S., det. H.A.B.)

PHYLLOBOTHRIMUM THRIDAX Van Beneden, 1850 [Joyeux and Baer, 1936, p. 92]

Spiral valve of *Raia clavata* and *Raia brachyura*, May 1932 (H.A.B.)

PHYLLOBOTHRIMUM UNILATERALE Southwell, 1925 [Woodland, 1927b, p. 528]

Intestine of *Squatina squatina* (W.N.F.W., M.L.R., det. H.A.B.): intestine of *S. Squatina*, Wembury Bay. 6.4.49 (K.U.C., det. S.Pr.)

SCYPHOPHYLLIDIUM GIGANTEUM (Van Beneden, 1858) [Woodland, 1927b, p. 525]

1 specimen in spiral valve of *Galeorhinus galeus* associated with *Anthobothrium cornucopia* (W.F.N.W.)

TRITAPHROS RETZII Lönnberg, 1889 [Woodland, 1927b, p. 524, as *Echeneibothrium julievansium*]

Single specimen in *Raia montagui* (W.N.F.W.): 1 specimen in spiral valve of *Raia brachyura*, May 1932 (H.A.B., in Baylis and Jones, 1933, p. 632, as *Anthobothrium auriculatum* (Rud., 1819) of Johnstone, 1906)

