

POLYZOA

Bay, 30.5.29 (embryos in vestibule); Eddystone, 29.6.29 (budding); 11.9.29, (well developed buds); S.W. Eddystone, 16.7.29 (embryos in vestibule) (D.A.)

LOXOSOMELLA CLAVIFORMIS (Hincks) [Atkins, 1932, p. 343, as *Loxosoma*]

On parapodia and on ventral and dorsal surfaces of *Hermione hystrix* (D.A.)

Breeding: embryos, Aug.-Sept. (D.A.)

LOXOSOMELLA OBESA (Atkins, 1932, p. 354, as *Loxosoma*)

On *Aphrodite aculeata*, rather rare, but infection heavy when present, usually on dorsal surface or on the under surface of the elytra, rarely on ventral surface (D.A.)

Breeding: embryos Feb.-April and Sept. (D.A.)

LOXOSOMELLA MURMANICA (Nilus) [Bobin and Prenant, 1953a, p. 20]

On *Phascolion strombi* inhabiting shells of *Turritella* dredged in Cawsand Bay, 13.11.53, 5 out of 5 infected; also on *P. strombi* in *Turritella* shells from near edge of Rame Mud, 21.3.55, 25 out of 25 infected (D.A.)

Breeding: gonads ripe in some, 13.11.53; some with eggs, some budding, 21.3.55 (D.A.)

LOXOMESPILON PEREZI Bobin and Prenant, 1953b, p. 29

On *Sthenelais boa* from about L.W.N.T. Wembury Church Reef, 4.10.56, infesting one out of four worms collected; larvae were present in brood pouches and some specimens were budding (coll. E.C.S., det. D.A.)

Phylum **POLYZOA** s. str.

Order **CYCLOSTOMATA**

Family **Crisiidae**

CRISIDIA CORNUTA (L.) [Hincks, 1880, p. 419, as *Crisia*]

Fairly common, mostly on red seaweeds (S.F.H.): Queen's Ground; Mewstone Ledge; Rame-Eddystone Grounds (R.A.T.): New Grounds, 31.7.28 (A.B.H.)

Breeding: ovicells, commonest April-May (S.F.H.)

FILICRISIA GENICULATA (Milne-Edwards) [Harmer, 1891, p. 170, as *Crisia*]

Rare (R.A.T.)

CRISIA EBURNEA (L.) [Harmer, 1891, p. 131]

Eddystone Grounds (E.J.A., R.A.T.): common, almost always on red weeds or *Sertularella* (S.F.H.): Queen's Grounds, several young colonies, 29.2.08 (A.M.)

Breeding: ovicells, Feb.-May (S.F.H., R.A.T.): commonest, March-April (S.F.H.)

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CRISIA ACULEATA Hassall [*Harmer*, 1891, p. 132]

Not uncommon, 4-5 fm., on red seaweeds, stones and sponges (S.F.H., R.A.T.)

Breeding: ovicells, April, May (S.F.H., R.A.T.)

CRISIA RAMOSA Harmer, 1891, p. 134

Plymouth, 4-30 fm., the commonest species; generally on stones, but also on shells, red seaweeds, Cellaria, sponges, etc.; grows most luxuriantly in 4-6 fm. (S.F.H.): Queen's Ground, occasionally (R.A.T.): Eddystone Grounds (E.J.A.)

SALCOMBE. Dredged in all parts of the Channel from Salstone to mouth of Salcombe Harbour (Allen and Todd, 1900, p. 204)

Breeding: Feb. (R.A.T.): April-Aug., maximum in May-June (S.F.H.)

CRISIA DENTICULATA (Lamarck) [*Harmer*, 1891, p. 129]

Plymouth, seldom found (S.F.H.): Queen's Ground, not uncommon; Duke Rock, occasionally common (R.A.T.): Queen's Ground, 28.2.08; Mewstone Grounds, 26.3.08 (A.H.)

Family **Tubuliporidae**STOMATOPORA MAJOR (Johnston) [*Hincks*, 1880, p. 427]

Eddystone Grounds (E.J.A.): 17 m. S.W. of Eddystone, 42 fm. (Crawshay, 1912, p. 366)

STOMATOPORA GRANULATA (Milne-Edwards) [*Hincks*, 1880, p. 425]

Eddystone Grounds (E.J.A.): 30 m. S.W. of Eddystone, 49 fm. (Crawshay, 1912, p. 366)

STOMATOPORA JOHNSTONI (Heller) [*Hincks*, 1880, p. 430]

Eddystone Grounds (E.J.A.): 17 m. S.W. of Eddystone, 42 fm. (Crawshay, 1912, p. 366)

TUBULIPORA DILATANS (Johnston) [*Hincks*, 1880, p. 429, as Stomatopora]

48 m. S.W. of Eddystone, 51 fm. (Crawshay, 1912, p. 366)

TUBULIPORA LOBULATA Hassall [*Hincks*, 1880, p. 444]

Queen's Grounds, 28.2.08 (A.H.)

TUBULIPORA PHALANGEA Couch [*Harmer*, 1898, p. 94]

Plymouth, common, 3-15 fm (S.F.H.)

TUBULIPORA LILIACEA (Pallas) [*Harmer*, 1898, p. 90]

Duke Rock, very occasionally; not uncommon on shells, stones, hydroids etc, S. of Breakwater, 15-30 fm.; Rame-Eddystone Grounds (R.A.T.): Eddystone Grounds (E.J.A.): from 18 positions, 8-46 m. S.W. of Eddystone, 40-51 fm. or over (Crawshay, 1912, p. 366)

TUBULIPORA PLUMOSA Thompson [*Harmer*, 1898, p. 105]

Plymouth district, abundant on *Cystoseira granulata* and on *Saccorhiza polyschides* (S.F.H.)

TUBULIPORA DEFLEXA Couch [*Hincks*, 1880, p. 437, as Stomatopora]

From 4 positions, 17-40 m. S.W. of Eddystone, 42-49 fm. or over (Craw-

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shay, 1912, p. 366): Rame-Eddystone Grounds, 30 fm., 15.7.20, on shell (H.B.)

Family **Diastoporidae**

DIPLOSOLEN OBELIA (Johnston) [*Hincks*, 1880, p. 462, as *Diastopora*]
Eddystone Grounds (E.J.A.)

DIASTOPORA PATINA (Lamarck) [*Hincks*, 1880, p. 458]

Common on shells, etc., 15-35 fm. (R.A.T.): Mewstone Ledge, fairly common (S.F.H.): Rame-Eddystone Grounds (R.A.T.): Eddystone Grounds (E.J.A.): Mewstone Grounds, 26.3.08 (A.H.): from 6 positions, 21-48 m. S.W. of Eddystone, 44-51 fm. (Crawshay, 1912, p. 366)

DIASTOPORA SUBORBICULARIS Hincks, 1880, p. 464

Mewstone Ledge (S.F.H.): Eddystone Grounds (E.J.A.): one colony, Queen's Ground, 28.2.08 (A.H.)

DIASTOPORA SARNIENSIS Norman [*Hincks*, 1880, p. 463]

Common on shells, stones, etc., 15-35 fm. (R.A.T.): Rame-Eddystone Grounds (R.A.T.): Eddystone Grounds (E.J.A.)

Family **Entalophoridae**

ENTALOPHORA CLAVATA (Busk) [*Hincks*, 1880, p. 456]

46 m. S.W. of Eddystone, 50 fm. (Crawshay, 1912, p. 366)

Family **Lichenoporidae**

LICHENOPORA HISPIDA (Fleming) [*Hincks*, 1880, p. 473]

Common on all grounds, 15-30 fm. (E.J.A.): Queen's Ground, 28.2.08, several colonies (A.H.): from 5 positions 19-40 m. S.W. of Eddystone, 42-49 fm. (Crawshay, 1912, p. 366)

SALCOMBE. On shells dredged in Salcombe Harbour (Allen and Todd, 1900, p. 205)

LICHENOPORA VERRUCARIA (Fabricius) [*Hincks*, 1880, p. 478]

Rame-Eddystone, 30 fm.; Looe N. 10° W. 5½ m., 28 fm.; 16 m. S.W. Eddystone, 40 fm., July 1920, on shell (H.B.)

Order **GYMNOLAEMATA**Sub-Order **CHEILOSTOMATA**Family **Aeteidae**

AETEA ANGUINA (L.) [*Hincks*, 1880, p. 4]

Queen's Ground, occasionally on algae; common on rocky ground S. of Breakwater (R.A.T.): on red weed, Queen's Ground, 28.2.08 (A.H.): at 3 positions 29-48 m. S.W. of Eddystone, 42-51 fm. (Crawshay, 1912, p. 361)

AETEA SICA (Couch) [*Hincks*, 1880, p. 6, as *A. recta*]

Not uncommon on shells, etc., 20-35 fm.; Mewstone Grounds; Rame-Eddystone Grounds (R.A.T.): at 2 positions 16-30 m. S.W. of Eddystone, 42-47 fm. (Crawshay, 1912, p. 361)

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AETEA TRUNCATA (Landsborough) [*Hincks*, 1880, p. 8]

SALCOMBE. Dredged in the channel between Salstone and Snape's Point (Allen and Todd, 1900, p. 204)

Family **Scrupariidae**

SCRUPARIA CHELATA (L.) or SCRUPARIA AMBIGUA (d'Orbigny) [*Hastings*, 1941, p. 465]

Both species are known from Devonshire and the following records may have been based on either (A.B.H.): on a hulk near the Breakwater (R.A.T.): between Rame Head and the Eddystone, on Bowerbankia (E.J.A.): one small piece on red weed with *Aetea anguina*, Queen's Ground, 28.2.08 (A.H.): at 2 positions, 17-46 m. S.W. of Eddystone, 42-50 fm. (Crawshay, 1912, p. 361): New Grounds, near Breakwater, dredged, 31.7.28 (A.B.H.)

SALCOMBE. Dredged in the Channel from the Salstone to the mouth of Salcombe Harbour (Allen and Todd, 1900, p. 204)

EUCRATEA LORICATA (L.) [*Hincks*, 1880, p. 18, as Gemellaria]

Bolt Tail bearing N.E. 7-8 m., otter trawl, 29.6.14 (A.J.S.)

Family **Membraniporidae**

MEMBRANIPORA MEMBRANACEA (L.) [*Hincks*, 1880, p. 140]

Generally distributed, on Laminaria, etc. (R.A.T., S.P.): Drake's Island, shore, 2.8.28 (A.B.H.)

Breeding: actively moving sperm in body cavity of zoecia in older parts of colony on Laminaria from Sound, 6.6.33; Drake's Island, 7.6.33, sperm and eggs present, numerous eggs extruded through intertentacular organs in laboratory the same day and began segmentation (A.B.H.): larvae (*Cyphonautes schneideri* Lohmann) in outside plankton throughout 1953, chiefly in autumn (D.A.)

ELECTRA PILOSA (L.) [*Hincks*, 1880, p. 137, as Membranipora]

Common everywhere on Fucus, etc., between tide-marks (R.A.T., S.P.): Queen's Ground, 28.2.08 (A.H.): New Grounds, 31.7.28; Drake's Island, shore, 2.8.28 (A.B.H.)

Breeding: larvae (*Cyphonautes compressus* Ehrenberg) in plankton from inside Breakwater throughout 1953, chiefly in autumn; in outside plankton, Oct. 1954 (D.A.)

var. DENTATA (Hincks) [*Hincks*, 1880, p. 137]

River Plym, just below Laira Bridge, 2.6.56, on weed (A.B.H.)

ELECTRA CRUSTULENTA (Pallas) [*Marcus*, 1940, p. 120]

Neille Point, River Tamar, 3.6.56 (D.A., A.B.H.): Cargreen, River Tamar, 19.7.56 (D.A.)

PYRIPORA CATENULARIA (Fleming) [*Hincks*, 1880, p. 134, as Membranipora]

Mewstone Grounds (R.A.T.): Eddystone Grounds (E.J.A.): from 4 positions, 28-40 m. S.W. of Eddystone, 45-49 fm. (Crawshay, 1912, p. 362)

CONOPEUM RETICULUM (L.) [*Hincks*, 1880, p. 129, as *Membranipora lacroixii*]

Plymouth (R.M.P.): River Tamar up to ½ m. above Halton Quay, and in Lynher to St. German's viaduct, hand and dredge, June-Oct. 1928 (E.P.): Neille Point, River Tamar, 3.6.56 (D.A., A.B.H.)

PARELLISINA CURVIROSTRIS (Hincks) [*Hincks*, 1880, p. 153, as *Membranipora*]

Eddystone Grounds (R.M.P.)

ALDERINA IMBELLIS (Hincks) [*Hincks*, 1880, p. 160, as *Membranipora*]

Plymouth, a doubtful fragment (S.F.H.)

Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

CALLOPORA LINEATA (L.) [*Hincks*, 1880, p. 143, as *Membranipora*]

Cawsand Bay (T.H.T.): 30 m. S.W. of Eddystone, 43 fm. (Crawshay, 1912, p. 363)

CALLOPORA DUMERILI (Audouin) [*Hincks*, 1880, p. 156, as *Membranipora*]

Eddystone Grounds (E.J.A.): Mewstone Grounds, 26.3.08 (A.H.): 17 m. S.W. of Eddystone, 43 fm. (Crawshay, 1912, p. 362)

Breeding: Drake's Island, shore, 2.8.28 (A.B.H.)

CALLOPORA AURITA (Hincks) [*Hincks*, 1880, p. 159, as *Membranipora*]

Mewstone, 20 fm., once (T.H.T.)

AMPHIBLESTRUM FLEMINGI (Busk) [*Hincks*, 1880, p. 162, as *Membranipora*]

Eddystone Grounds (E.J.A.): Mewstone Grounds, 26.3.08 (A.H.): from 5 positions, 17-46 m. S.W. of Eddystone, 42-50 fm. (Crawshay, 1912, p.362)

ROSSELIANA ROSSELI (Audouin) [*Hincks*, 1880, p. 166, as *Membranipora*]

Queen's Ground; Cawsand Bay; Mewstone, 20 fm. (S.F.H.)

Family **Flustridae**

FLUSTRA FOLIACEA (L.) [*Hincks*, 1880, p. 115]

Mewstone Ledge, when dredging for *Holothuria forskali*, 21.6.07, large colony; between the Slimers and Yealm Point, 16.7.09 (A.J.S.)

CHARTELLA PAPYRACEA (Ellis and Solander) [*Hincks*, 1880, p. 118, as *Flustra*]

Millbay Channel, occasionally (S.P.): Queen's Ground (R.M.P.): New Grounds, 31.7.28, dredged (A.B.H.)

? SECURIFLUSTRA SECURIFRONS (Pallas) [*Hincks*, 1880, p. 120, as *Flustra*]

The only specimen purporting to represent *S. securifrons* preserved in the Laboratory belongs to *Chartella papyracea*. The following tentative records thus need confirmation: Millbay Channel, occasionally (R.A.T.): one spray, Mewstone Grounds, 26.3.08 (A.H.)

HINCKSINA FLUSTROIDES (Hincks) [*Hincks*, 1880, p. 151, as *Membranipora*]

Mewstone, 25 fm. (S.F.H.): from 2 positions, 29-30 m. S.W. of Eddystone 47-49 fm. (Crawshay, 1912, p. 362)

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Family **Microporidae****MICROPORA CORIACEA** (Esper) [*Hincks*, 1880, p. 174]

Mewstone, 25 fm. (S.F.H.): from 5 positions 21-48 m. S.W. of Eddystone, 43-51 fm. (Crawshay, 1912, p. 363)

Family **Cellariidae****CELLARIA FISTULOSA** Hincks (? not L.) [*Hincks*, 1880, p. 106]

Common with *C. sinuosa*, especially on fine sand grounds, 15-30 fm. (E.J.A.): Mewstone Grounds, 26.3.08 (A.H.): from 23 positions, 8-48 m. S.W. of Eddystone, 40-51 fm., not in any quantity except on fine sandy ground (Crawshay, 1912, p. 363): 1 m. S.W. of Mewstone, 8.8.28 (A.B.H.)

CELLARIA SALICORNIOIDES Audouin (? Lamouroux) [*Hincks*, 1880, p. 112, as *C. johnsoni*]

Eddystone Grounds (E.J.A.): from 16 positions, 7-48 m. S.W. of Eddystone, 40-51 fm. or over, less frequently than the last but in the same situations (Crawshay, 1912, p. 363)

CELLARIA SINUOSA (Hassall) [*Hincks*, 1880, p. 109]

Common with *C. fistulosa*, especially on fine sand grounds, 15-30 fm. (E.J.A.): from 10 positions, 21-48 m. S.W. of Eddystone, 42-51 fm. (Crawshay, 1912, p. 363): 1 m. S.W. of Mewstone, 8.8.28 (A.B.H.)

Family **Scrupocellariidae****CABEREA BORYI** (Audouin) [*Hincks*, 1880, p. 61]

Plymouth (S.F.H.)

SCRUPOCELLARIA SCRUPOSA (L.) [*Hincks*, 1880, p. 45]

Common S. of Breakwater, 20-35 fm.; Mewstone Grounds; Rame-Eddystone Grounds; Stoke Point Grounds (R.A.T., S.P.): Eddystone Grounds, plentiful on the fine sand and gravels, generally attached to polychaete tubes or *Cellaria*, rare on the shell-gravel grounds (E.J.A.): on *Cellaria*, Mewstone Grounds, 26.3.08 (A.H.): at 9 positions 18-39 m. S.W. of Eddystone, 40-51 fm. (Crawshay, 1912, p. 361)

SALCOMBE. Small pieces dredged in Salcombe Harbour, attached to *Gibbula magus* (Allen and Todd, 1900, p. 204)

SCRUPOCELLARIA SCRUPEA Busk [*Hincks*, 1880, p. 50]

Mewstone, 25 fm. (S.F.H.): probably this species with very small scuta, Queen's Ground, 28.2.08 (A.H.)

SCRUPOCELLARIA REPTANS (L.) [*Hincks*, 1880, p. 52]

Plymouth (S.F.H.)

SALCOMBE. Under Marine Hotel, lying on sand free from *Zostera*, and also among *Zostera*, 31.10.28 (G.A.S.)

POLYZOA

Family **Bicellariellidae****BEANIA MIRABILIS** Johnston [*Hincks*, 1880, p. 96]

From 12 positions, 17-48 m. S.W. of Eddystone, 42-51 fm., on other Polyzoa and on hydroids (Crawshay, 1912, p. 362)

BICELLARIELLA CILIATA (L.) [*Hincks*, 1880, p. 68, as *Bicellaria*]

Moderately common, 5-35 fm., on *Cellaria* and on hydroids (R.A.T.): Millbay Pit; Asia Shoal (R.A.T., S.P.): Queen's Ground, not uncommon (S.P.): Duke Rock (E.J.A.): Mewstone Ledge, occasionally (R.A.T.): Rame-Eddystone Grounds (R.A.T., S.P.): Eddystone Grounds, not uncommon on various hydroids (E.J.A., S.P.): from 11 positions, 8-48 m. S.W. of Eddystone, 40-51 fm. (Crawshay, 1912, p. 362); New Grounds, 31.7.28 (A.B.H.)

Breeding: Mewstone Grounds, 30.7.28 (A.B.H.): with ovicells, March (R.A.T.)

BUGULA NERITINA (L.) [*Marcus*, 1940, p. 183]

Millbay Docks, 6.8.28; probably a recent introduction brought to the docks on ships (A.B.H.): Millbay Docks, Aug-Sept. (A.H.)

Breeding: numerous larvae liberated in Laboratory, 6.8.28 (A.B.H.)

BUGULA AVICULARIA (L.) [*Hincks*, 1880, p. 75]

Eddystone Grounds (E.J.A., S.P.): Rame-Eddystone Grounds (S.P.): from 4 positions, 7-46 m. S.W. of Eddystone, 40-50 fm. (Crawshay, 1912, p. 362)

BUGULA PLUMOSA (Pallas) [*Hincks*, 1880, p. 84]

Plymouth, common (S.F.H.)

BUGULA FLABELLATA (Thompson) [*Hincks*, 1880, p. 80]

Common in dredgings from Sound (R.A.T., S.P.): Mewstone Ledge, moderately common (R.A.T.): Eddystone Grounds, occasionally (E.J.A.): from 4 positions 7-30 m. S.W. of Eddystone, 40-49 fm. (Crawshay, 1912, p. 362)

SALCOMBE. Dredged in the "Bag", at the mouth of Kingsbridge Estuary, and in the Channel in Salcombe Harbour (Allen and Todd, 1900, p. 204)

Breeding: July, Sept. (R.A.T.)

BUGULA CALATHUS Norman [*Hincks*, 1880, p. 82]

17 m. S.W. of Eddystone, 43 fm. (Crawshay, 1912, p. 362); New Grounds; Mewstone Ledge, 13.7.20 (H.B.)

BUGULA TURBINATA Alder [*Hincks*, 1880, p. 77]

Moderately common in dredgings from Sound (R.A.T., S.P.): from 2 positions, 28-48 m. S.W. of Eddystone, 45-51 fm. (Crawshay, 1912, p. 362)

SALCOMBE. Dredged in quantity in the Channel from the Salstone to the mouth of Salcombe Harbour (Allen and Todd, 1900, p. 204)

DENDROBEANIA MURRAYANA var. **FRUTICOSA** (Packard) [*Hincks*, 1880, p. 93, as *Bugula*]

One tuft, Queen's Ground, 28.2.08 (A.H.)

Family **Cribilinidae****MEMBRANIPORELLA NITIDA** (Johnston) [*Hincks*, 1880, p. 200]

Common on "*Lepralia foliacea*" (S.F.H.): abundant on "*Lepralia foliacea*", Mewstone Grounds, 26.3.08 (A.H.): Mewstone, 20 fm. (T.H.T.): 39 m. S.W. of Eddystone, 49 fm. (Crawshay, 1912, p. 363)

CRIBRILINA PUNCTATA (Hassall) [*Hincks*, 1880, p. 190]

Mewstone, 25 fm. (S.F.H.): Queen's Ground, 28.2.08 (A.H.)

CRIBRILARIA RADIATA (Moll.) [*Hincks*, 1880, p. 185, as *Cribrilina*]

Mewstone Ledge, very common (S.F.H.): Rame-Eddystone Grounds, on *Pecten maximus* (R.A.T.): Eddystone Grounds (E.J.A.): from 11 positions, 21-48 m. S.W. of Eddystone, 42-51 fm. (Crawshay, 1912, p. 363)

FIGULARIA FIGULARIS (Johnston) [*Hincks*, 1880, p. 196, as *Cribrilina*]

Mewstone Echinoderm Ground (R.A.T.): Eddystone Grounds (E.J.A.): 39 m. S.W. of Eddystone, 49 fm. (Crawshay, 1912, p. 363)

Breeding: with ovicells, April (R.A.T.)

Family **Hippothoidae****HIPPOTHOA DIVARICATA** Lamouroux [*Hincks*, 1880, p. 288]

Queen's Ground, 4 fm. (T.H.T.): Mewstone Echinoderm Ground; Rame-Eddystone Grounds, on *Pecten maximus* (R.A.T.): Eddystone Grounds (E.J.A.): from 4 positions, 17-32 m. S.W. of Eddystone, 42-46 fm. (Crawshay, 1912, p. 365)

HIPPOTHOA DISTANS MacGillivray [*Hincks*, 1880, p. 293, as *H. flagellum*]

Mewstone, 25 fm. (S.F.H.): from 4 positions, 17-34 m. S.W. of Eddystone, 42-49 fm. (Crawshay, 1912, p. 364)

CELLEPORELLA HYALINA. (L.) [*Hincks*, 1880, p. 271, as *Schizoporella*]

Millbay Channel (T.H.T.): Plymouth, common; Yealm Sand-bank, abundant on algae (R.M.P.): River Plym, just below Laira Bridge, 2.6.56 (A.B.H.)

Breeding: many newly metamorphosed ancestrulae and young colonies, 1. 11. 39 (A.B.H.)

CHORIZOPORA BRONGNIARTI (Audouin) [*Hincks*, 1880, p. 224]

Rame-Eddystone Grounds, on *Pecten maximus* (R.A.T.): Eddystone Grounds (E.J.A.): Queen's Ground, several colonies, 28.2.08 (A.H.): from 5 positions, 17-40 m. S.W. of Eddystone, 43-49 fm. (Crawshay, 1912, p. 364)

Breeding: New Grounds, 31.7.28 (A.B.H.)

HAPLOPOMA IMPRESSUM (Audouin) [*Hincks*, 1880, p. 214, as *Microporella impressa*]

Common on red seaweeds (S.F.H.): Queen's Ground, 28.2.08, some zoecia with, others without marginal pores (A.H.)

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Family **Reteporidae**

RHYNCHOZOOM BISPINOSUM (Johnston) [*Hincks*, 1880, p. 385, as *Rhynchopora bispinosa*]
Eddystone Grounds (E.J.A.)
Breeding: 1 m. S.W. of Mewstone, 8.8.28 (A.B.H.)

SCHIZOTHECA FISSA (Busk) [*Hincks*, 1880, p. 284]
Eddystone Grounds (E.J.A.)
Breeding: New Grounds, dredged, 31.7.28 (A.B.H.)

Family **Adeonidae**

REPTADEONELLA VIOLACEA (Johnston) [*Hincks*, 1880, p. 216, as *Microporella*]
Mewstone Ledge (S.F.H.): Eddystone Grounds (E.J.A.)

Family **Escharellidae**

ESCHARELLA IMMERSA (Fleming) [*Hincks*, 1880, p. 360, as *Mucronella peachii*]
Eddystone Grounds (E.J.A.): from 2 positions, 28-30 m. S.W. of Eddystone, 45-47 fm. (Crawshay, 1912, p. 364)
Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

ESCHARELLA VENTRICOSA (Hassall) [*Hincks*, 1880, p. 363, as *Mucronella*]
Mewstone Echinoderm Ground; Rame-Eddystone Grounds (R.A.T.): Eddystone Grounds (E.J.A.): from 6 positions, 21-39 m. S.W. of Eddystone, 42-49 fm. (Crawshay, 1912, p. 364)

ESCHARELLA VARIOLOSA (Johnston) [*Hincks*, 1880, p. 366, as *Mucronella*]
Eddystone Grounds (E.J.A.): from 4 positions, 19-21 m. S.W. of Eddystone, 43-49 fm. (Crawshay, 1912, p. 364)

Family **Schizoporellidae**

SCHIZOPORELLA UNICORNIS (Johnston) [*Hincks*, 1880, p. 238]
Mewstone, 25 fm. (S.F.H.): from 3 positions, 21-30 m. S.W. of Eddystone, 42-47 fm. (Crawshay, 1912, p. 365)

SCHIZOPORELLA ARMATA (Hincks) [*Hincks*, 1880, p. 258]
Mewstone, 25 fm. once (S.F.H.)

SCHIZOPORELLA DISCOIDEA (Busk) [*Hincks*, 1880, p. 265]
From 39 m. S.W. of Eddystone, 49 fm. (Crawshay, 1912, p. 365)

SCHIZOPORELLA CRISTATA Hincks [*Hincks*, 1880, p. 254]
Mewstone Ledge, two small colonies in dead *Pecten* shell (S.F.H.)

SCHIZOMAVELLA AURICULATA (Hassall) [*Hincks*, 1880, p. 260, as *Schizoporella*]
Eddystone Grounds (E.J.A.)

SCHIZOMAVELLA LINEARIS (Hassall) [*Hincks*, 1880, p. 247, as *Schizoporella*]
Plymouth, very common (S.F.H.): Millbay Channel (R.A.T.): Eddystone Grounds (E.J.A.): from 9 positions, 19-21 m. S.W. of Eddystone, 42-49 fm. (Crawshay 1912, p.365)
Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

POLYZOA

ESCHARINA SPINIFERA (Johnston) [*Hincks*, 1880, p. 241, as *Schizoporella*]
Plymouth (S.F.H.)

ESCHARINA JOHNSTONI (Quelch) [*Hincks*, 1880, p. 246, as *Schizoporella simplex*]
Mewstone, 25 fm. (S.F.H.): from 30 m. S.W. of Eddystone, 43 fm. (Crawshay, 1912, p. 365)

ARTHROPOMA CECILI (Audouin) [*Hincks*, 1880, p. 269, as *Schizoporella*]
Eddystone, 20 fm. (S.F.H.)

Family **Hippoporinidae**

HIPPOPORINA PERTUSA (Esper) [*Hincks*, 1880, p. 305, as *Lepralia*]
River Yealm; Eddystone Grounds (E.J.A.)
Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

CRYPTOSULA PALLASIANA (Moll) [*Hincks*, 1880, p. 297, as *Lepralia*]
River Yealm, 1½ fm. (T.H.T.): Yealm Sand-bank, between tide-marks (R.M.P.): Drake's Island, shore, 2.8.28 (A.B.H.):
common everywhere up to shore 100 yds. above Antony Creek, River Lynher and to Cargreen, River Tamar, June-Oct.
1928 (E.P.)

"LEPRALIA" FOLIACEA (Ellis and Solander) [*Hincks*, 1880, p. 300]

Millbay Pit, occasionally; Queen's Ground, not uncommon; Mewstone Ledge, abundant; more or less common on all
the outside grounds, 10-30 fm. (S.P.): Mewstone Grounds, 26.3.08 (A.H.): from 11 positions, 28-30 m. S.W. of
Eddystone, 43-51 fm. or over; plentiful 39 m. S.W. of Eddystone (Crawshay, 1912, p. 364); Mewstone Grounds, 30.7.28
(A.B.H.)

Family **Microporellidae**

MICROPORELLA CILIATA (Pallas) [*Hincks*, 1880, p. 206]
Rame-Eddystone Grounds, occasionally, on *Pecten maximus* (R.A.T.): Eddystone Grounds (E.J.A.): Queen's Ground,
28.2.08 (A.H.)
Breeding: 1 m. S.W. of Mewstone, 8.8.28 (A.B.H.)

MICROPORELLA PERSONATA (Busk) [*Hincks*, 1880, p. 207]
Mewstone, 20 fm. (S.F.H.)

FENESTRULINA MALUSI (Audouin) [*Hincks*, 1880, p. 211, as *Microporella*]
Mewstone Ledge, very common (S.F.H.): Eddystone Grounds (E.J.A.)

Family **Stomachetosellidae**

LEIOSELLA (?) QUINCUNCIALIS (Norman) [*Hincks*, 1880, p. 339, as *Escharoides*]
Plymouth, single specimen, April 1889 (S.F.H.)

Family **Smittinidae**

PALMICELLARIA SKENEI (Ellis and Solander) [*Hincks*, 1880, p. 379]
Eddystone Grounds (E.J.A.): from 2 positions, 28-46 m. S.W. of Eddystone, 45-50 fm. (Crawshay, 1912, p. 364)

PORELLA CONCINNA (Busk) [*Hincks*, 1880, p. 323]

Mewstone, 20 fm., once (S.F.H.): Eddystone Grounds (E.J.A.): from 6 positions, 21-40 m. S.W. of Eddystone, 42-49 fm. (Crawshay, 1912, p. 364)

Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

PORELLA COMPRESSA (Sowerby) [*Hincks*, 1880, p. 330]

From 10 positions, 21-46 m. S.W. of Eddystone, 42-50 fm. or over (Crawshay, 1912, p. 364)

SMITTINA LANDSBOROVI (Johnston) [*Hincks*, 1880, p. 341, as *Smittia*]

Mewstone Ledge (S.F.H.)

SMITTINA CHEILOSTOMA (Manzoni) [*Hincks*, 1880, p. 349, as *Smittia*]

Eddystone Grounds (E.J.A.)

SMITTINA TRISPINOSA (Johnston) [*Hincks*, 1880, p. 353, as *Smittia*]

Mewstone Ledge, excessively common (S.F.H.): Eddystone Grounds (E.J.A.): Mewstone Grounds, abundant, 26.3.08 (A.H.): from 6 positions, 21-39 m. S.W. of Eddystone, 42-49 fm. (Crawshay, 1912, p. 364)

Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

SMITTINA RETICULATA (J. Macgillivray) [*Hincks*, 1880, p. 346, as *Smittia*]

17 m. S.W. of Eddystone, 43 fm. (Crawshay, 1912, p. 364)

Family **Phylactellidae****PHYLACTELLA COLLARIS** (Norman) [*Hincks*, 1880, p. 358]

Eddystone Grounds (E.J.A.)

LAGENIPORA LEPRALIOIDES (Norman) [*Hincks*, 1880, p. 235, as *L. socialis*]

Mewstone, 25 fm. (S.F.H.)

Family **Exochellidae****ESCHAROIDES COCCINEUS** (Abildgaard) [*Hincks*, 1880, p. 371, as *Mucronella coccinea*]

Plymouth, very common (S.F.H.): Eddystone Grounds (E.J.A.): several colonies, Queen's Ground 28.2.08. Mewstone, 26.3.08 (A.H.)

Family **Umbonulidae****UMBONULA LITTORALIS** Hastings, 1944, p. 280

Drake's Island, on rocks, between tide-marks (R.A.T., E.J.A.): Wembury Bay (E.J.A.)

SALCOMBE. Common on the rocks at the mouth of Salcombe Harbour (Allen and Todd, 1900, p. 204, as *U. verrucosa*)

Breeding: embryos present, Drake's Island shore, 2.8.28; spermatid tissue, June 1933 (Hastings, 1944, pp. 273-4)

Family **Celleporidae****CELLEPORA RAMULOSA** L. [*Hincks*, 1880, p. 401]

Eddystone Grounds (E.J.A., S.P.): Rame-Eddystone Grounds (R.A.T., S.P.): Stoke Point Grounds (S.P.): from 20 positions, 8-48 m. S.W. of Eddystone. 40-51 fm. (Crawshay, 1912, p. 365)

POLYZOA

CELLEPORA DICHOTOMA Hincks [*Hincks*, 1880, p. 403]

Eddystone, 20-30 fm. (S.F.H.): from 3 positions, 17-30 m. S.W. of Eddystone, 42-47 fm. (Crawshay, 1912, p. 365)

CELLEPORA AVICULARIS Hincks [*Hincks*, 1880, p. 406]

Mewstone, 20 fm. (T.H.T.): Eddystone Grounds (E.J.A.): Mewstone Grounds, 26.3.08 (A.H.): from 23 positions, 8-48 m. S.W. of Eddystone, 40-51 fm. (Crawshay, 1912, p. 365): 1 m. S.W. of Mewstone, 8.8.28 (A.B.H.)

CELLEPORA PUMICOSA L. [*Hincks*, 1880, p. 398]

Common at most outside stations (R.M.P.): from 5 stations, 17-30 m. S.W. of Eddystone, 42-47 fm. (Crawshay, 1912, p., 365)

Breeding: Mewstone Grounds, 30.7.28 (A.B.H.)

CELLEPORINA HASSALLI Johnston [*Hincks*, 1880, p. 411, as *Cellepora costazii*]

Cawsand Bay (R.M.P.)

Sub-Order CTENOSTOMATA

Family Alcyonidiidae

ALCYONIDIUM GELATINOSUM (L.) [*Hincks*, 1880, p. 491]

In dredgings from the Sound, Mewstone Ledge and S. of Breakwater to 35 fm. (R.A.T., S.P.): Millbay Channel; Asia Shoal; abundant (A.J.S., S.P.): Eddystone Grounds (E.J.A.): from 13 positions, 21-39 m. S.W. of Eddystone, 40-49 fm., single or few colonies (Crawshay, 1912, p. 367): Mewstone Grounds, 30.7.28 (A.B.H.)

ALCYONIDIUM POLYOUM (Hassall) [*Hincks*, 1880, p. 498 (as *A. mytili*) and p. 501]

Plymouth (S.F.H.): 40 m. S.W. of Eddystone, 52 fm. (Crawshay, 1912, p. 367): common in Lynher and Tamar-up to hard shore above Ince Castle, and to ½m. above Cargreen, June-Oct. 1928 (E.P.): abundant on *Fucus serratus* at and below low tide mark below the Laboratory (L.S.)

Breeding: Drake's Island, shore, 2.8.28, numerous larvae liberated in the Laboratory (A.B.H.)

ALCYONIDIUM HIRSUTUM (Fleming) [*Hincks*, 1886, p. 493]

Cawsand Bay (T.H.T.): abundant on *Fucus serratus* at and below low tide mark below the Laboratory (L.S.)

ALCYONIDIUM PARASITICUM (Fleming) [*Hincks*, 1880, p. 502]

Plymouth, on *Sertularia cupressina* (S.F.H.)

Family Flustrellidae

FLUSTRELLA HISPIDA (Fabricius) [*Hincks*, 1880, p. 506]

Very abundant everywhere between tide-marks on *Fucus*, etc. (R.M.P.): Drake's Island, shore, 2.8.28 (A.B.H.)

Breeding: early Feb. to mid-July; spermatozoa more abundant, Feb.-March; ova, March-May; larvae, April-July (R.M.P.)

POLYZOA

Family **Vesiculariidae****VESICULARIA SPINOSA** (L.) [*Hincks*, 1880, p. 513]

From a Plymouth trawler working outside Eddystone Lighthouse, 28.2.12 (A.J.S.)

BOWERBANKIA PUSTULOSA (Ellis and Solander) [*Hincks*, 1880, p. 522]

Plymouth, very common (S.F.H.): Duke Rock (T.H.T.): Cattewater, July, Aug. 1911 (M.H.): Sound, 2.8.28 (A.B.H.)

SALCOMBE. Probably this species common on dredge material from an parts of the Channel from the Salstone to the mouth of Salcombe Harbour (Allen and Todd, 1900, p. 205)

BOWERBANKIA IMBRICATA (Adams) [*Hincks*, 1880, p. 519]

Millbay Dock (T.H.T.): Duke Rock, 29.8.06, in muddy cover of a piece of shell (A.B., L.R.C.): common everywhere, up to ½ m. above Halton Quay and to confluence of River Tiddy and River Lynher, hand and dredge, June-Oct. 1928 (E.P.)

Breeding: Aug. (A.J.S.)

BOWERBANKIA CAUDATA (Hincks) [*Hincks*, 1880, p. 521]

The Cattewater (T.H.T.)

BOWERBANKIA CITRINA (Hincks) [*Hincks*, 1880, p. 524]

One colony, Mewstone Grounds, 6-9 m., 16.6.49 (L.S.)

AMATHIA LENDIGERA (L.) [*Hincks*, 1880, p. 516]

Penlee, Rame Grounds, common on Halidrys (R.M.P.): Duke Rock, 29.8.06, in the muddy cover of a dead *Maia squinado* (A.B., L.R.C.): Mewstone Grounds, 26.3.08 (A.H.)

SALCOMBE. On dredge material from Channel W. of Salstone (Allen and Todd, 1900, p. 205)

Family **Valkeriidae****VALKERIA UVA** (L.) [*Hincks*, 1880, p. 551]

30 m. S.W. of Eddystone, 47 fm., also probably this species from several other stations S.W. of Eddystone (Crawshay, 1912, p. 367)

HYPOPHORELLA EXPANSA Ehlers [*Joyeux-Laffuie*, 1888, p. 152, as *Delagia chaetopteri*]

Not uncommon on the tubes of *Chaetopterus variopedatus* (S.F.H.)

TRITICELLA KORENI Sars [*Silén*, 1936, p. 3.] (Recorded in the 1931 edition as *T. boeckii*)

Rame-Eddystone Grounds, on a specimen of *Goneplax angulata* (R.A.T.): probably this species on ventral surface of *Aphrodite aculeata* Mewstone Ledge, 25.10.27; Looe-Eddystone, 2.2.28; outer Mewstone Grounds, 17.4.28; 5 m. S. of Harbour, 18.4.28; Mewstone Grounds, 31.5.29 1½ m. off Eddystone, 6.6.29; Eddystone, 11.7.29; S.W. of Eddystone, 16.7.29; on Upogebia from Rame Mud, 15.5.33 (D.A.)

POLYZOA

Breeding: on female *Goneplax angulata* E. of outside grounds, Looe-Eddystone, 30.4.14, with small eggs (J.H.O.)

Family **Mimosellidae**

The record of *Mimosella gracilis* at Salcombe (Allen and Todd, 1900, p. 205) appears to have been based on a misidentification, the tube contains only *Valkeria* and *Bowerbankia* (L.S.)

Family **Nolellidae**

NOLELLA DILATATA (Hincks) [*Hinks*, 1880, p. 536, as *Cylindroecium dilatatum*] Eddystone Grounds (E.J.A.)

