

The Marine Fauna of the Cullercoats District

3a

ENTOPROCTA

by

D. Eggleston* & H. O. Bull

Univ. Newcastle upon Tyne

Rep.Dove Mar.Lab.

3rd Ser. 15; pp. 5 to 10

1966

* Formerly Lord Adams Fellow at the Dove Marine Laboratory ; now Fisheries Research Officer, Hong Kong.

Phylum ENTOPROCTA Nitsche

LOXOSOMATIDAE Hincks

Loxosoma pectinaricola (FRANZEN)

Nielsen 1964, pp. 7-9, fig. 2.

Very abundant on *Pectinaria belgica* (Pallas) from mud grounds. Over 200 specimens on each worm examined.

BREEDING—Buds April, May, July and September; embryos June and July.

Loxosomella sp. = **Loxosomella nitschei** Arvy and Prenant 1952, Bobin and Prenant 1953, 1954, Prenant and Bobin 1956, Nielsen 1964, not *L. nitschei* (Vigelius), Roper 1913, Harmer 1915, Ryland 1961.

Nielson 1964, p. 34, fig. 23.

Up to 50 specimens on each *Phascolion strombi* (Montagu) on in-shore grounds.

BREEDING—Buds all year, embryos all year.

Loxosomella murmanica (NILUS)

Nielsen 1964, p. 37, fig. 25.

A few specimens referable to this doubtful species (Nielsen 1964, Eggleston 1965) occasionally occur among *Loxosomella* sp. on *Phascolion strombi*.

Loxosomella nitschei (VIGELIUS) = *L. nitschei* Roper 1913, Harmer 1915, Ryland 1961, not *L. nitschei* Arvy and Prenant 1952, Bobin and Prenant 1953, 1954, Prenant and Bobin 1956, Nielsen 1964.

Ryland 1961, pp. 35-37, fig. 2.

"Growing in aquarium tanks in great abundance," Jun., 1912 (Roper 1913).

Abundant on *Bugula* sp. on Blyth pier piles 6 Sep. 1963; on *Cellaria fistulosa* Hincks, hydroids, dead shell and coal on gravel grounds, 20-25 fms. 3-4 miles E. of Newbiggin, 18 Apr. 1965.

BREEDING—Buds April and September.

Loxosomella compressa NIELSEN AND RYLAND

Nielsen & Ryland 1961, pp. 41-43, fig. 2; Nielsen 1964, pp. 41-42, fig. 29.

Common (up to 50 individuals) on all *Gattyana cirrosa* (Pallas) from *Chaetopterus* tubes on mud grounds. Also on *Lagisca extenuata* (Grube) from gravel grounds, 20-25 fms., 3-4 miles E. of Newbiggin.

BREEDING—Buds, July.

Loxosomella nordgaardi RYLAND

Ryland 1961, pp. 31-35, fig. 1 : Nielsen 1964, pp. 42-44, fig. 30.

Dredged in small numbers at Battery Park gravel ground on 28 May 1963 and 15 Jun. 1963. On *Smittoidea reticulata* MacGillivray, *Schizomavella linearis* Hassall and *Porella concinna* (Busk).

BREEDING—Buds, May and June.

Loxosomella fauveli BOBIN AND PRENANT

Nielsen 1964, pp. 39-41, fig. 28.

Rare. Only 3 specimens found on over 20 *Aphrodite aculeata* L. examined. Trawled on gravel ground on 18 Apr. 1953, 20-25 fms., 3-4 miles E. of Newbiggin.

Loxosomella harmeri (SCHULTZ)

Nielsen 1964, pp. 28-30, fig. 18.

Abundant on antennae, dorsal cirri and on dorsal surface of elytra of *Gattyana cirrosa* from *Chaetopterus* tubes on mud grounds. Up to 200 specimens occur on each *G. cirrosa*. Not found on *G. cirrosa* from *Amphitrite* tubes.

BREEDING—Buds, February, May, July. Embryos, May and July.

PEDICELLINIDAE Smith

Pedicellina cernua (PALLAS)

Hincks 1880, p. 565, pl. 81, figs. 1-3 : Nielsen 1964, pp. 54-56, fig. 39.

"On small sea-weeds and corallines, near low-water mark; frequent." (Alder 1856); "Present. Coquet and Berwick Bay." (Alder 1862b); "Off Holy Island." (Alder 1864); "Off Marsden, present." (Alder 1864) (all as *P. echinata*). "Very common on all kinds of algae between tide-marks, Cullercoats: Dredged abundantly on hydroids and other Polyzoa from all Stations except VI and IX and from 40 fms. east of Longstone." (Robson 1913): "From station V" (Robson 1913, var. *belgica*).

Common on *Campanularia*, etc. on piles in Blyth harbour. H.O.B.: Common wherever suitable supports e.g. algae, stones, shells, hydroids, ectoprocts, ascidians, etc. occur from between tide-marks to 50 fms.

Barentsia gracilis (M. SARS)

Hincks 1880, p. 570, pl. 81, figs. 4-6 (as *Pedicellina* g.):

Nielsen 1964, p. 56, fig. 41.

"On the under side of stones, and on the stems of Zoophytes,

Cullercoats and Tynemouth ; common." (Alder 1862a, as *Pedicellina* g.): "On shells, stones, hydroids and Polyzoa from stations III, IV, VII and VIII ; very common. Also from 40 fms. east of the Longstone, 32 fms. east by south of Cullercoats, and between tide-marks, Cullercoats." (Robson 1913, as *Ascopodaria* g.).

Similar in distribution to *Pedicellina cernua* but less common on the shore.

Barentsia laxa KIRKPATRICK

Rogick 1948, pp.128-142, figs.1-43.

Large colonies found growing in Dove Marine Laboratory aquaria and in outside storage tank Sep. 1962—Sep. 1964.

ENTOPROCTA

REFERENCES

- ALDER, J., 1856. A Catalogue of the zoophytes of Northumberland and Durham. Trans.Tyneside Nat.Fd.Cl. 3 (2) ; pp.93-162.
- ALDER, J., 1862a. Supplement to a Catalogue of the zoophytes of Northumberland and Durham. Ibid. 5 (3) ; pp.225-247.
- ALDER, J., 1862b. Report on the Zoophytes (In "Report of the Dredging Expedition to the Dogger Bank and the Coast of Northumberland." Ed. E. T. Mennell). Ibid. 5 (4) ; pp.288-290.
- ALDER, J., 1864. Report on the Zoophytes (In "Report of Dredging Operations on the coasts of Northumberland and Durham, in July and August, 1863," Ed. G. S. Brady), Ibid. 6 (2) ; pp.191-193.
- ALDER, J., 1865. Report on the Zoophytes (In "Report of Deep Sea Dredging on the coasts of Northumberland and Durham, 1862-4" Ed. G. S. Brady). Nat. Hist.Trans.Northumb.Durh. 1 (1) ; pp.45-50.
- ARVY, L. & PRENANT, M., 1952. *Loxosoma nitschei* Vigelius sur les phascolions de Dinard. Bull.Lab.marit.Dinard. No. 36 ; pp.1-5.
- BOBIN, G. & PRENANT, M., 1953. Sur les loxosomes du *Phascolion strombi* (Montagu) et sur la spécificité de l'inquinisme des loxosomes. Arch.zool. exp.gén. (Notes et Rev.) 90 ; pp.18-41.
- BOBIN, G. & PRENANT, M., 1954. Étude critique des principeaux Caractères utilisables dans la Classification des Loxosomes. Ann.Sci.Nat.Zool., 11 ser., 15 ; p.7-33.
- EGGLESTON, D., 1965. The Loxosomatidae of the Isle of Man Proc.zool.Soc. Lond. 145 (4) ; pp.529-547.
- HARMER, S. F., 1915. The Polyzoa of the Siboga Expedition, Part I. Entoprocta, Ctenostoma, and Cyclostomata. Siboga Exped., 28a ; pp.1-180.
- HINCKS, T., 1880. A history of the British marine Polyzoa. 2 vols. London. Van Voorst. vol. 1, text ; pp.cxli, 601 ; vol. 2, plates 1-83. 8°.
- NIELSEN, C., 1964. Studies on Danish Entoprocta. Ophelia 1 (1) ; pp.1-76.

- NIELSEN, C. & RYLAND, J. S., 1961. Three new species of Entoprocta from West Norway. *Sarsia* 1; pp.39-45.
- PRENANT, M. & BOBIN, G., 1956. Bryozoaires I. Entoproctes, Phylactolèmes, Cténostomes. *Faune de France* 60; pp.1-398.
- ROGICK, M. D., 1948. Studies on marine Bryozoa. II *Barentsia laxa* Kirkpatrick 1890. *Biol.Bull.Woods Hole* 94 (2); pp.128-142.
- ROPER, R. E., 1913. The marine Polyzoa of Northumberland. *Rep.Dove Mar. Lab. n.s.* 2; pp.36-57.
- RYLAND, J. S., 1961. Two species of *Loxosomella* (Entoprocta) from West Norway. *Sarsia* 1; pp.31-38.
- VIGELIUS, W. J., 1882. A catalogue of the Polyzoa collected during the Dutch North-Polar cruises of the "Wilhelm Barents". *Niederl. Arch.Zool.*, 1 (suppl.); pp.1-20.