

less immersed and in the oldest parts of the zoarium their site is indicated merely by a small circular pit close above the oral opening; this is owing to the circumstance that the central circular perforated area on their front is apparently never completely calcified.

13. *Tessaradoma*, Norman.

Pustulipora (pars), Sars.
Quadricellaria, Sars, Alder.
Onchopora (pars), Bk.
Anarthropora, Smitt.
Tessaradoma, Norman, Smitt.
Eschara (pars), Auctt.
Porina (pars), Hincks, nec d'Orb.

Character.—Zoarium continuous, erect, ramose, arising from a calcareous base, or by radical tubes. Stem and branches cylindrical. Zoecia tubular above from production of the peristome. A median circular pore usually with a raised shortly tubular border on the front. With or without immersed avicularia, and marginal pores.

I have preferred to retain Dr. Norman's appellation for this genus instead of *Porina* which has been adopted by Mr. Hincks (Brit. Mar. Polyz., p. 227), simply as it would seem for the reason that he considers it to be identical with the *Porina* of M. d'Orbigny. But as that author's Family Porinidæ has expressly for one of its characters "cellules entières, juxtaposées sur deux plans opposés sur un seul plan libre ou fixe" and gives as one of the characters of *Porina* "rameaux comprimés," and the cells "adossées les unes aux autres latéralement;" and as having neither "cellules accessoires ni vésicules ovariennes," and moreover cites two living species as belonging to it—*Porina africana* and *Porina* (*Eschara*) *gracilis*, Lamarck, neither of which, so far as I can perceive, has any character in common with *Tessaradoma*, I see no reason to follow him. Besides this, as the term *Porina* has been used by Prof. Smitt in another sense, it will I think obviate much confusion if Dr. Norman's name be retained.

Tessaradoma boreale, Busk (sp.) (Pl. XXIV. fig. 8).

Pustulipora gracilis, Sars, Reise i Lof. og Finnm. p. 26.
Quadricellaria gracilis, Sars, Norske Polyzoer, p. 15; Alder Quart. Journ. Micr. Sci., N. S., vol. iv. p. 101, pl. ii. figs. 9-12.
Onchopora borealis, Bk., *Ibid.*, vol. viii. p. 213, pl. xxviii. figs. 6-7.
Anarthropora borealis, Smitt, Kritisk Förteckn., pp. 8, 67, pl. xxiv. figs. 25-29.
Tessaradoma gracile, Norman, Brit. Ass. Rep., 1868, p. 309.
Tessaradoma boreale, Smitt, Florid. Bryoz., pt. 2, p. 32, pl. vi. figs. 143-145.
Porina borealis, Hincks, Brit. Mar. Polyz. vol. i. p. 229, pl. xxxi. figs. 4-6.

Character.—Zoarium one to two inches high or more, irregularly dichotomous. Branches cylindrical, subterete. Zoecia usually quadriserial, alternate, subventricose;