

three rows of outgrowths on each side. As already stated with reference to the redundant variety of *Textularia sagittula*, it appears probable that there is originally, in every case, a communication between the chamberlet and the adjacent chamber by means of a stoloniferous pore, but that this is subsequently filled up as the walls become thickened by the deposit of shell-substance. The fistulæ for the most part have large, rounded, external apertures, but in some of them the visible orifice is only a minute perforation, and in specimens from certain localities they are frequently entirely closed in.

*Textularia siphonifera* has been observed in sands from the coral-reefs of Honolulu, Sandwich Islands, 40 fathoms; from two points off the Admiralty Islands, 15 to 25 fathoms; from off Tongatabu, Friendly Islands, 18 fathoms; and in material dredged by the late Mr. M'Andrew in the Gulf of Suez, 30 fathoms.

*Textularia rugosa*, Reuss, sp. (Pl. XLII. figs. 23, 24).

*Plecanium rugosum*, Reuss, 1869, Sitzungsab. d. k. Ak. Wiss. Wien, vol. lix. p. 453, pl. i. fig. 3, a. b.

Reuss's figure of *Plecanium rugosum* appears to have been drawn from a comparatively poor fossil specimen of the species, represented in its recent condition in figs. 23 and 24.

The salient character of the test is a certain imbricated or plicate appearance, due to the peculiar curvature of the segments, and to a series of transverse arched depressions immediately above the sutural lines, near the peripheral margin, on each side. Living specimens sometimes attain a length of  $\frac{1}{2}$ th inch (2 mm.) or more.

*Textularia rugosa* is a coral-reef species. It occurs off the Admiralty Islands, 10 to 25 fathoms; off Booby Island, 7 fathoms; off Tongatabu, Friendly Islands, 18 fathoms; off Ascension Island, 7 fathoms; and in the Gulf of Suez, 30 fathoms; as well as in deep water off Amboyna.

The specimens described by Reuss were from the Oligocene formation of Gaas, near Dax, in the south of France.

*Textularia agglutinans*, d'Orbigny (Pl. XLIII. figs. 1-3; vars. figs. 4, 12).

*Textularia agglutinans*, d'Orbigny, 1839, Foram. Cuba, p. 136, pl. i. figs. 17, 18, 32-34.

*Textularia agglutinans*, Seguenza, 1862, Atti dell' Accad. Gioenia, vol. xviii. (ser. 2) p. 112, pl. ii. fig. 4.

*Plecanium sturi*, Karrer, 1864, Sitzungsab. d. k. Ak. Wiss. Wien, vol. l. p. 704, pl. i. fig. 1.

*Textularia agglutinans*, Parker and Jones, 1865, Phil. Trans., vol. clv. p. 369, pl. xv. fig. 21.

*Plecanium agglutinans*, Reuss, 1869, Sitzungsab. d. k. Ak. Wiss. Wien, vol. lix. p. 452, pl. i. figs. 1, 2.

*Textularia agglutinans*, Moebius, 1880, Foram. von Mauritius, p. 93, pl. ix. figs. 1-8.

This species may be taken as the type of the arenaceous varieties of *Textularia*, which collectively form the genus *Plecanium* of Reuss and others. D'Orbigny's figures