

Habitat.—Station 172, off Tongatabu, 18 fathoms, coral mud. Off Honolulu, 20 to 40 fathoms.

[Australian Seas *ubique*, New Zealand, &c.]

This species appears to occur under two rather distinct forms. In one (the typical) it constitutes a beautiful circular expansion, about one inch or more in diameter, composed of short bifurcating branches radiating from a central short stem (*vide* Brit. Mus. Cat., pt. iii. pl. vii. fig. 1*a*), or a more straggling growth in which the branches, though still springing from a more or less excentric point, are much longer, forming elongated forks (*loc. cit.*, fig. 1*b*), constituting a variety to which the term *stricta* might be applied. Very fine specimens of this form occur in the Challenger collection, from Honolulu, whilst a beautiful specimen of the radiate type was procured at Station 172, off Nukalofa, Tongatabu.

In all the Challenger specimens there is rarely more than one zoecium to represent the lateral series, but in others there are occasionally as many as four (*vide* Brit. Mus. Cat., pt. iii. pl. vii. fig. 4), as described by Mr. Macgillivray. The great peculiarity of the species, however, is seen in the coarsely pitted or foveolate surface on the sides of the branches, and the series of large pores or pits along the dorsal sulci; the oecial chambers also have peculiar sculpture.

(3) *Idmonea marionensis*, Busk.

Idmonea marionensis, Busk, Brit. Mus. Cat., pt. iii. p. 13, pl. xiii. figs. 3, 5; pl. vii. figs. 7, 8 (young state); Waters, Haswell.

? *Crisina hochstetteriana*, Stoliczka, "Novara" Exp., Geol. Theil, Bd. i. p. 113, Taf. xviii. fig. 3; Smitt, Florid. Bryoz., p. 6, pl. ii. figs. 11-13.

Character.—Zoarium slender, elongate, very sparingly branched; stem and branches cylindrical or subcylindrical. Zoecia two to four in each series (most usually two) about 0.15 to 0.20 mm., series wide apart, 0.7 to 0.8 mm., when entire the innermost the longest. Surface finely but sparsely punctured; dorsal surface convex, with a fine longitudinal striation.

Habitat.—Off Marion Islands, 50 to 75 fathoms; off Prince Edward Island, 80 to 150 fathoms. Station 147, lat. 46° 16' S., long. 48° 27' E., 1600 fathoms, Diatom ooze. Station 151, off Heard Island, 75 fathoms, volcanic mud. Station 320, lat. 37° 17' S., long. 53° 52' W., 600 fathoms, green sand.

[? Auckland, New Zealand, fossil, Stoliczka; Bay of Naples and Marion Island, Waters; Queensland, Haswell.]

As I have remarked in Brit. Mus. Cat., this species seems to mark a transition between *Pustulopora* and *Idmonea*. The cells, however, are always disposed in rows or series on each side of the anterior aspect of the branch, and are for the most part deeply immersed;