

very compact, except on the apical parts of the upper branches; surface with very short and minute spinules, which are rather scattered and wide apart, except on the verrucæ, where they become longer and closer.

In the apical subpolygonal calicles of this species the tabulæ can be very easily traced. In these cells the septa are but slightly developed, and the tabulæ originate as slight ring-like thickenings within the calicle at some distance from the edge. By the concentric growth of this thickening a complete floor is formed which shuts in a wide intertabular chamber below. According to the stage of development of the tabula the central portion may be pierced by an opening of greater or less extent, which gradually lessens and eventually is altogether obliterated when the tabula is complete.

This species is very distinct from all other known forms, and is represented by a rather large specimen, which grew in a more or less horizontal position.

Locality.—Tahiti.

9. *Pocillopora ligulata*, Dana.

Pocillopora ligulata, Dana, Zoophytes, p. 531, pl. 1. fig. 2.

Two rather small specimens were collected. They agree in all respects with Dana's excellent figure and description.

Locality.—Honolulu.

10. *Pocillopora plicata*, Dana.

Pocillopora plicata, Dana, Zoophytes, p. 534, pl. 1. fig. 7.

The specimens which were referred by Dana to this species have been separated by Verrill,¹ the form from the Sandwich Islands being referred to a new species, *Pocillopora aspera*. Two specimens and some fragments in the collection, which apparently are identical with the *Pocillopora aspera*, agree so closely with the *Pocillopora plicata* that it seems necessary to reunite the two forms under their original name. The outer branches of the species are not at all plicate, but are more or less straight, elongated, and compressed.

Locality.—Reefs, Honolulu, at depths of 1 to 2 fathoms.

11. *Pocillopora nobilis*, Verrill.

Pocillopora verrucosa, Dana (*non* Ellis and Solander), Zoophytes, p. 529, pl. 1. fig. 3.

„ *nobilis*, Verrill, Proc. Essex Inst., vol. vi. p. 97.

Two fine specimens and numerous fragments of the species were obtained. In one specimen the branches are often quite thin, though generally broad, while in the other

¹ Proc. Essex Inst., vol. vi. p. 93-96.