

circular mandible; another much smaller, boat-shaped; and a third of an oval form and of various dimensions. Dorsal surface granular, shining, vibicate, often with small circular deeply imbedded avicularia.

*Habitat*.—Station 161, off Port Philip, 33 fathoms, sand.

(?) *Var. japonica*.

*Character*.—Of much more delicate habit, the walls of the zoëcia being thin, delicate, and transparent. The peristome very thin, and more constantly produced into a wide spout.

*Habitat*.—Cobie, Japan, 8 to 50 fathoms.

[North Japan, Captain St. John.]

Notwithstanding a considerable difference in habit, as these two forms agree in many essential particulars, I have with some hesitation provisionally regarded them merely as varieties. The Japanese form is much more delicate in

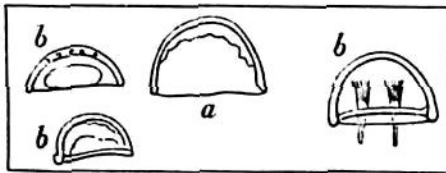


FIG. 27.—*Retepora victoriensis* var. *japonica*.

all respects, and the anterior avicularia, though of the same form as in the other and distributed in the same manner, are much smaller. The oëcia also appear much more numerous, and they present the peculiarity of remaining entirely open in front, apparently for a long time, as very few if any can be seen closed in. One

character of the species which may facilitate its diagnosis is the great number of zoëcia in the width of the trabeculæ, and the frequently very regular way in which they are disposed in oblique, transverse rows. The operculum also in *Retepora victoriensis* is thick, and in var. *japonica* very delicate.

(11) *Retepora simplex*, n. sp. (Pl. XXVIII. fig. 4).

*Character*.—Zoarium about 1".25 high, irregularly infundibuliform, rising from a broad base; fenestræ oval, usually with a projection on one side, about 0".025 × .015 and of about the same width as the trabeculæ. Dorsal surface finely granular, no distinct vibices. Zoëcia convex, broad and short, ovate, surface subrugose. Orifice orbicular, peristome thin, deficient posteriorly. Labial fissure nearly median, very short and terminating in a rather large pore. A minute labial avicularium with semicircular mandible (often absent) on one of the angles of the fissure. A few scattered prehensile avicularia (readily overlooked) on the front and a few elongated retentive ones behind or in the fenestræ. Oëcia lofty, with a trifoliate stigma (fig. 4b), often widely open.

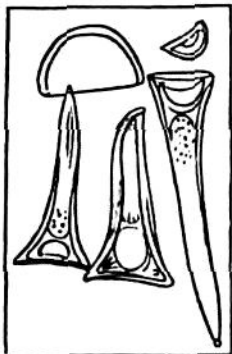


FIG. 28.—*Retepora simplex*.

*Habitat*.—Samboangan, 10 fathoms. Admiralty Islands.