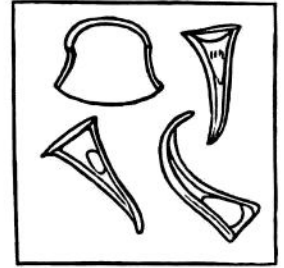


(21) *Retepora margaritacea*, n. sp. (Pl. XXVII. fig. 2).

*Character*.—Zoarium foliaceous, expanded. Fenestræ elliptical, irregular in size and form, about the same width as the trabeculæ. Dorsal surface finely verrucose, glistening, pearly. Zoœcia deeply immersed, outline imperceptible, surface warty. Orifice deeply immersed, elliptical from side to side; labial fissure sublateral, short and wide. Peristome slightly raised all round, posteriorly pectinate, with four or five obtuse teeth, upon which are articulated short slender pointed spines. Oœcia inconspicuous. Anterior avicularia in front of almost every zoœcium, on one side close below the labial fissure or pore; large and prominent, with a much curved slender acute mandible pointing horizontally to one side (fig. 2a); the edge of the avicularian cup serrated. Besides these, when the larger ones are absent, a minute avicularium on one side close below the suboral pore (fig. 2b). No dorsal avicularia.

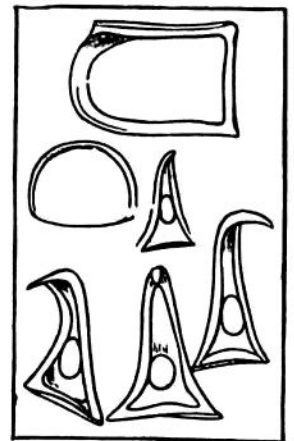
FIG. 36.—*Retepora margaritacea*.

*Habitat*.—Station 176, lat. 18° 30' S., long. 173° 52' E., 1450 fathoms, Globigerina ooze.

Unfortunately only a single specimen of this interesting form was contained in the gathering at this Station. The width of the specimen is about 0".75. It is convex on the anterior side, and to the naked eye is chiefly remarkable for the irregular size and disposition of the fenestræ. The verrucose, beautifully pearly, glistening surface is also distinctive, as well as the size and position of the anterior avicularia, and the form of the mandible, which is remarkable for its long curvature.

(22) *Retepora jacksoniensis*, n. sp. (Pl. XXVII. fig. 4).

*Character*.—Zoarium infundibuliform, flexuose. Fenestræ oval, narrow, pointed at each end, irregular in size. Zoœcia elongated, rhomboidal, flattened in front. Peristome much raised on the sides and the front, bifid or trifid on each side. Labial fissure wide and shallow, anterior surface smooth, with a strongly raised septal line. Dorsal surface wrinkled, with irregular wavy vibices. Oœcia inconspicuous. Anterior avicularia sparse, placed rather to one side of the upper part of the front; in the younger zoœcia almost level with the surface, mandible acute, pointing directly downwards; in the older zoœcia the avicularium forms a prominent central rostrum (fig. 4b), in which the mandible of the same shape, and not much larger, points directly forwards. No dorsal avicularia, but occasionally one like the anterior at the lower angle of a fenestra.

FIG. 37.—*Retepora jacksoniensis*.

*Habitat*.—Port Jackson, 2 to 10 fathoms, mud.