

(6) *Cellepora honolulensis*, n. sp. (Pl. XXIX. fig. 5, and Pl. XXXV. fig. 15).

*Character*.—Zoarium massive, irregular. Zoecia very confusedly crowded, deeply immersed, surface finely granular, imperforate. Orifice (primary) semiorbicular, or subtriangular, lower border straight, with a minute three-toothed pectinate process within it. A short pointed pre-oral rostrum, supporting on one side a small avicularium, with a semicircular mandible. In the older parts, very numerous large interspersed prominent avicularia, with a lanceolate mandible pointing upwards, and simply channelled beak.

*Habitat*.—Off Honoruru, Sandwich Islands, 20 to 40 fathoms.

Differs from *Cellepora tridenticulata* in the much smaller size of the internal denticles, which rather resemble a minute three-toothed comb, and in the almost universal presence on the front of the older zoecia of a prominent avicularium with a lanceolate mandible and simply channelled not serrated beak.

(7) *Cellepora imbellis*, n. sp. ? (Pl. XXIX. fig. 7, and Pl. XXXV. fig. 20).

*Character*.—Zoarium lamellar, flexuose, thin. Zoecia distinct, erect, free above, ventricose and immersed below; surface finely pitted. Orifice arcuate or subtriangular or suborbicular, about 0".006 wide, peristome slightly thickened; a small avicularium in front just within the border. A few interspersed, immersed avicularia, with duck-bill mandible.

*Habitat*.—Off Bahia, 10 to 20 fathoms.

Only a single specimen apparently old and dead.

(8) *Cellepora jacksoniensis*, n. sp. (Pl. XXX. fig. 10, and Pl. XXXV. fig. 9).

*Character*.—Zoarium branched; branches compressed. Zoecia barrel-shaped, very distinct at the growing edge (fig. 10a), elsewhere confused; surface granular; a row of small perforations round the border. Pre-oral process short, pointed, trifid, having an avicularium, with a rounded mandible, on one side towards its base, which forms one border of the labial fissure. Orifice orbicular, widely notched below. Some of the lateral zoecia have in front a strong projecting avicularian process, with a lanceolate mandible, and the beak cupped and toothed (fig. 10b).

*Habitat*.—Station 163B, off Port Jackson, 35 fathoms, hard ground.

(9) *Cellepora polymorpha*, n. sp. (Pl. XXX. fig. 11).

Zoarium irregularly branched, branches tapering, short. Zoecia very confusedly disposed; surface coarsely granular. Orifice (primary), (fig. 11a), circular, widely emargin-