

habit of growth is incrusting, and it spreads over and ultimately surrounds the object on which it grows.

*Locality*.—Mactan Island, Philippines.

2. *Cyphastræa microphthalmalma* (Lamarek).

*Astræa microphthalmalma*, Lamarek, Hist. Anim. sans Vert., ii. p. 273, 1816.

*Cyphastræa microphthalmalma*, Milne-Edwards and Haime, Cor., ii. p. 485.

A small gibbous specimen, the growth of which has been much disturbed by parasites, presents some interesting varietal points. The columella is scarcely seen from without, and is but slightly developed; the cups are generally quite close, especially in the depressed parts, evenly rimmed with prominent and wide septa, which are much thinner at the wall than is shown by Milne-Edwards and Haime.<sup>1</sup>

*Locality*.—Mactan Island, Philippines.

3. *Cyphastræa aspera*, n. sp. (Pl. IV. figs. 3-3a).

Corallum incrusting, forming a thin layer. Epitheca very distinct at the margin. Calicles circular, nearly immersed, about 1.5 mm. wide, very deep, separated by interspaces equal to their own diameter; costæ scarcely distinct, finely and obsoletely spinulose; wall nearly even with the surface. Septa extremely exsert, easily broken away, slightly thickened and very narrow, scarcely projecting into the fossa, forming a circle of high, rather delicate, narrow, cultriform plates at the margin of the calicles which give to the corallum a rough bristling aspect; of three cycles, the last incomplete and very small; those of the first and second cycles indistinguishable in size from each other, but very unequal on opposite sides of the same calicle, granulated and subentire. Columella small or rudimentary.

A small specimen of this interesting species was obtained, consisting of a thin, living, rather uneven layer, which has spread over an equally thin, dead layer. It differs considerably in appearance from the ordinary species of *Cyphastræa*, but seems to be connected with them by the *Cyphastræa ocellina* (Dana). Its general appearance recalls the *Oculinæ*, as mentioned by Dana for the *Cyphastræa ocellina* and *Cyphastræa danæ* (= *Astræa microphthalmalma*, Dana).

*Locality*.—Api, New Hebrides.

4. *Cyphastræa brueggemanni*, n. sp. (Pl. IV. figs. 4-4a).

Corallum incrusting at base and surrounding other bodies, forming in this manner large, rounded, unevenly globose masses, which are attached by a very small base.

<sup>1</sup> Ann. d. Sci. Nat., ser. 3, vol. x. pl. ix. fig. 5.