

5. *Turbinaria peltata* (Esper.)

*Madrepora peltata*, Esper, Pflanz. Forts., i. p. 27, Madrep. pl. xlii.

*Turbinaria peltata*, Milne-Edwards and Haime, Cor., iii. p. 165.

A small and very typical example of this exceedingly well-marked species was obtained.

The regularly cup-shaped form of the young specimens of this species soon becomes lost, owing to a central development of cœnenchyma which tends to fill up the cavity, while the edges of the colony become variously and irregularly contorted and plicate. By the coalescence of opposite folds, large and unequal, bifacial plates and branches are formed, which possess a uniform thickness throughout, and often attain to a very great height.

*Locality*.—Somerset, Cape York, shore.

6. *Turbinaria æqualis*, n. sp. (Pl. VII. figs. 3–3a).

Corallum consisting of narrow, rather thick plates, evenly covered on both sides with calicles. Calicles circular, not crowded, from 2 to 3 mm. apart, very small, having a diameter of from 1 to 1.5 mm.; superficial, the fossa being filled up with the septa, the proximal part of the wall not raised, the calicles being nearly even with the surface, having the opening directed upwards at right angles; septa generally from sixteen to twenty, often with a few rudimentary ones, thin, delicately spinulose, projecting quite to the centre and filling up the cavity. Columella very rudimentary, consisting of one or two papillæ, generally absent. Cœnenchyma dense; surface not striate nor echinulate, extremely granulated.

Only a fragment of a specimen of this species is in the collection. It is a narrow, twisted plate, having a basal thickness of 7 mm. It seems to have much the same habit as *Turbinaria bifrons*, Brüggemann, but differs in essential characters from that species. It is probable that in both species the bifacial development of the calicles is due to flexure and fusion of the fronds in the early stages of growth. In *Turbinaria bifrons* the proximal parts of the oblique cups are much thickened and raised; and the cups, though rather shallow, are not superficial, but present an open cavity filled up at the base by a well-developed columella.

*Locality*.—Wednesday Island, Torres Straits, 8 fathoms.

7. *Turbinaria stellulata* (Blainville).

*Astreopora stellulata*, Blainville, Man. d'Actin., p. 383, pl. lx. fig. A.

Corallum massive, with an evenly and finely porous surface; very heavy, the cœnenchyma of a dense texture throughout, though much perforated. Calicles rather small