

*Synapta dolabrifera*, Stimpson, 1856.

Tentacles twelve, with about fourteen digits. Deposits crowded. Anchor-plates mostly with ten perforations, the middle largest. Anchors a little larger than the plates, with the extremity of the handle also provided with a double hook, though of very small size.

*Habitat*.—Port Jackson (Stimpson).

*Synapta oceanica* (*Holothuria*), Lesson, 1830 ; Jæger, 1833.

Tentacles ten, flat, pinnate or plumulose. Six membranous bands along the body; symmetrical, round protuberances occupy the intervals between these bands. Anchors present. Very unsatisfactory description.

*Habitat*.—Very common at Tahiti (Lesson).

There is no doubt that the above description is very incorrect. Lesson speaks wrongly of six longitudinal bands, and there is reason to believe that he also erred when stating the tentacles to be ten. Judging from the pinnate tentacles, from the presence of longitudinal series of round protuberances, from the length (3 feet) of the body, and, finally, from the locality itself, where the animal is found in abundance, I am much inclined to refer the species of Lesson to Jæger's *Synapta beselii*, which is known to be common at the Society Islands. Selenka and Semper referred Lesson's species to those with twelve tentacles.

## VI. Tentacles ten.

*Synapta reticulata*, Semper, 1868.

Tentacles with ten to twelve thick, distant digits. Cartilaginous ring present, with large holes posteriorly. Polian vesicles eight to ten. Madreporic canal single. Anchor-arms smooth. Anchor-plates symmetrical, with seven larger dentate holes and some smaller smooth ones. Miliary granules rosette-shaped.

*Habitat*.—Bohol (Semper).

**B. Tentacles digitate, with few, never more than five digits. Anchor-plates, almost without exception, asymmetrical, with numerous often smooth holes, which for the most part are irregularly arranged; very seldom a handle at the articular end, which is often more or less distinctly truncated, and has the bow indistinct or even absent. Circumference of the plates mostly uneven or incomplete.**

## I. Tentacles thirteen.

*Synapta uncinata*, Hutton, 1872.

Tentacles very short, merely tubercles, with two incurved hooks at the end of each. Anchor-flukes equal. Very unsatisfactory description.

*Habitat*.—New Zealand (Hutton).