

*Spicules*.—I. Megasclere. 1. *Oxea*, curved, sometimes becoming tornote or strongylate, 0·684 by 0·015 mm.

II. Microsclere. 2. *Chiaster*, centrum small, actines slender, cylindrical, truncate or tylote, 0·018 mm. in diameter.

*Colour*.—Golden-yellow. Size, 125 mm. in height by 100 mm. in diameter.

*Habitat*.—Port Western, South Australia.

*Coppatias stellifera* (Carter).

*Amorphina stellifera*, Carter, Ann. and Mag. Nat. Hist., ser. 5, vol. iii. p. 348, pl. xxix. fig. 10, 1879.

*Stellettinopsis stellifera*, Ridley, Spong. "Alert," p. 477, 1885.

*Sponge*.—Massive, lobate, penetrated by a "seaweed" about which it has grown. Pores in sieves (?); oscules in pit-like depressions of the surface.

*Spicules*.—I. Megasclere. 1. *Oxea*, fusiform, curved, 0·71 by 0·017 mm.

II. Microsclere. 2. *Aster*, centrum absent, actines slender, minutely spined, eight or more in number, 0·017 mm. in diameter.

Size, 50 mm. by 29 mm. by 19 mm.

*Habitat*.—South Australia; laminarian zone.

*Remarks*.—Carter assigned this species to *Amorphina* (*Halichondria*); Ridley proposed to transfer it to *Stellettinopsis* (*Coppatias*); but as the oxeas are not arranged in fibrous tracts, the remarks made as to the position of the succeeding species (*Coppatias carteri*) are applicable here. Carter states the sponge only differs from *Halichondria panicea*, Johnst., by the presence of the aster, and if this should prove true of the characters of the canal system, it would directly ally the sponge with *Astropeplus*, since *Halichondria panicea* possesses a eurypylous canal system, scarcely more highly developed than that of *Astropeplus*. In such a case *Halichondria* itself may be regarded as a modified *Astropeplus*, which has in course of phylogenetic development lost its asters.

*Coppatias carteri* (Ridley).

*Stellettinopsis carteri*, Ridley, Spong. "Alert," p. 476, 1885.

*Sponge*.—Massive, lobate, supported on a short cylindrical stalk. Surface verruciform. Oscules not visible.

*Spicules*.—I. Megasclere. 1. *Oxea*, 1·0 by 0·02 mm.; not collected into fibres.

II. Microsclere. 2. *Euaster*, centrum small, actines cylindrical, strongylate, five to ten in number, minutely spined, 0·05 mm. in diameter.

*Colour*.—Greyish-white.