

*Spicules*.—I. Megascleres. 1. *Oxea*, 1.46 mm. in length. 2. *Dichotriæne*, rhabdome 1.46 mm. in length, protocladi 0.08 mm., deuterocladi 0.103 mm. in length, chord 0.35 mm. 3. *Anatriæne*, rhabdome 0.008 mm. in diameter, cladi 0.039 mm., chord 0.0645 mm., sagitta 0.021 mm. in length.

II. Microscleres. 4. *Anthaster*, actines variable in number, usually five to seven, 0.016 mm. in length. 5. *Chiaster*, actines slender, hair-like, not tylote, total diameter, 0.02 mm.

*Colour*.—Whitish-grey. Size, 13 mm. in diameter.

*Habitat*.—Port Phillip Heads, South Australia.

*Remarks*.—Mr. Carter had the kindness to send me part of a spirit-specimen of this sponge, and I am thus able to assign it to the genus *Anthastra* with certainty.

*Stelletta boglicii*, O. Schmidt.

*Stelletta boglicii*, O. Schmidt, Spong. Adriat. Meeres, p. 47, pl. iv. fig. 4, 1862.

*Sponge* spherical; surface hispid, covered with attached foreign bodies; cortex about 2.14 mm. in thickness.

*Spicules*.—I. Megascleres. 1. *Oxea*, from 2.78 by 0.07 to 3.08 by 0.06 mm. 2. *Plagiotriæne*, rhabdome 1.8 by 0.07 mm., cladi from 0.07 to 0.127 mm. in length. This spicule is frequently reduced to a diæne or monæne.

II. Microscleres. 3. *Ectosomal chiaster*, actines slender, bacillary, terminally truncate, 0.012 mm. in diameter. 4. *Choanosomal oxyaster*, actines numerous, conical, passing into a small centrum, a single actine from 0.013 to 0.0236 mm. long.

*Colour*.—Brown externally, white within.

*Habitat*.—Lesina, at considerable depths in the Adriatic Sea.

*Remarks*.—The plagiotriænes are reduced through all stages down to an oxea; one cladus may be present, and the axial fibres of two others, or the axial fibres may also be absent; the single cladus may arise as an evident branch from the rhabdome, or may form merely the bent termination of an oxea.

*Stelletta coactura* (Bwk.).

*Ecionema coactura*, Bowerbank, Mon. Brit. Spong., vol. iii. p. 269, pl. lxxxii. figs. 13-19, 1874.

*Sponge* massive, free; surface even, hispid, covered with numerous small pebbles and other attached foreign bodies; oscules inconspicuous; pores in sieves, large; cortex nearly 2 mm. in thickness.

*Spicules*.—I. Megascleres. 1. *Oxea*, fusiform, tornote, 1.91 by 0.04 mm.