

trace of a centrum; the two forms, though distinguishable, are so similar, that I have not thought it worth while to remove the sponge from the Homasterina, as it is evidently most closely related to *Myriastræa*.

*Colour*.—Brownish. Size, 70 mm. in height.

*Habitat*.—Coast of Algiers.

*Remarks*.—The specimen of this sponge which I have examined, I owe to the kindness of Professor Perrier.

*Pilochrota cingalensis*, n. sp.

*Sponge* (?).

Cortex thin, about 0.35 mm. in thickness.

*Spicules*.—I. Megascleres. 1. *Oxea*, fusiform, frequently curved, more or less bluntly pointed, 1.43 by 0.035 mm. 2. *Orthotriæne*, rhabdome conical, bluntly pointed or strongylate, 1.43 by 0.058 mm.; cladi 0.12 mm. in length. 3. *Anatriæne*, rhabdome cylindrical, slender, bluntly pointed or strongylate, 1.27 by 0.017 mm.; cladi 0.058 mm., chord 0.08 mm., sagitta 0.055 mm. in length.

II. Microsclere. 4. *Chiaster*, actines slender, variable in number and length, terminally tylote, 0.016 mm. in total diameter.

*Colour*.—Light brown.

*Habitat*.—Galle, Ceylon.

*Pilochrota fibrosa* (O. Schmidt).

*Ancorina fibrosa*, O. Schmidt, Spong. Atlant. Gebiet., p. 67, 1870.

*Sponge*.—An irregular thick incrustation, with a clearly differentiated cortex.

*Spicules*.—I. Megascleres. 1. *Oxea*, fusiform, 1.43 mm. by 0.027 mm. 2. *Plagiotriæne*.

II. Microsclere. 3. *Chiaster*, centrum absent, actines slender, bacillary, tylote, about six to twelve in number; total diameter 0.012 mm.

*Habitat*.—Florida; depth, 119 fathoms.

*Remarks*.—I am indebted to Dr. Ernst Ziegler of Strasburg for the opportunity of examining one of Schmidt's mounted preparations of this sponge; like the description it is inadequate; the chasters, however, are clearly shown, and one cannot but wonder how Schmidt came to overlook them, they resemble those represented on our Pl. XIV. figs. 19 and 20; the megascleres are said by Schmidt to resemble those of *Ancorina simplicissima*, O. Schmidt.