

sharply pointed cladi springing from the cladal end at right angles, and, after proceeding from one-third to one-half their course, recurving till they are nearly parallel to the rhabdome. Rhabdome 3·14 by 0·02 mm., cladi 0·1 mm. long; length of cladome 0·095 mm., chord 0·143 mm.

II. Microsclere. 4. *Chiaster*, rays tylote; 0·008 mm. in diameter.

*Colour*.—Puce-grey.

*Habitat*.—Station 212, January 30, 1875; lat. 6° 54' N., long. 122° 18' E.; depth, 10 fathoms; bottom, sand.

*Remarks*.—This sponge, of which there is a single specimen, measuring 10 mm. in height and 15 mm. in breadth, with a single oscule 1 mm. in diameter, is distinguished from *Myriastræ clavosa* by the characteristic form of the cladome of the anatriæne. This, the difference in colour, and other minor particulars led me at first to regard the sponge as a distinct species; but, after recognising the variability of *Myriastræ clavosa*, I think it may be more convenient to describe it as a variety of that species merely. The colour, moreover, does not appear to be proper to the sponge, for I could not discover pigment-cells; it is probably produced by one or other of the infesting protophytes.

*Myriastræ toxodonta*, Sollas (Pl. XIV. figs. 29–36).

*Myriastræ toxodonta*, Sollas, Prelim. Account, Sci. Proc. Roy. Dubl. Soc., vol. v. p. 189, 1886.

*Sponge* (Pl. XIV. fig. 29).—Small, in form a prolate ellipsoid, free; on one side a depression lined by smooth membrane, on the margin of which a few small oscules appear to open; pores in sieve-like areas generally distributed; surface even, rough.

*Spicules*.—I. Megascleres. 1. *Oxea* (Pl. XIV. fig. 30), fusiform, straight or curved, sharply pointed; 3·42 by 0·0316 mm.

2. *Dichotriæne* (Pl. XIV. fig. 31), a long, slender, conical rhabdome, usually thickened immediately below the cladome for a distance of about 0·08 mm.; protocladi projecting outwards and forwards, deuterocladi extending horizontally; rhabdome 3·5 by 0·046 mm., enlarging to 0·0597 mm. below the cladome, protocladi 0·095 to 0·127 mm., deuterocladi 0·286 to 0·318 mm. in length.

3. *Anatriæne* (Pl. XIV. fig. 32), a long, slender, conical, sharply pointed rhabdome, with recurved, conical cladi proceeding from it at wide angles; rhabdome 3·6 by 0·0237 mm., cladi 0·1114 mm. long; sagitta 0·0796 mm., chord 0·175 mm.

II. Microsclere. 4. *Chiaster* (Pl. XIV. figs. 33–35), actines thick, sometimes minutely spined, with tylote, minutely spined ends, 0·01 to 0·0158 mm. in diameter.

*Colour*.—Greyish-white.

*Habitat*.—Station 203, October 31, 1874; lat. 11° 6' N., long. 123° 9' E.; depth, 20 fathoms; bottom, mud. Trawled.