

*Remarks.*—Measurements of the spicules and cortex were made from type-slides in the British Museum.

*Geodia reticulata*, Bowerbank.

*Geodia reticulata*, Bowerbank, Proc. Zool. Soc. Lond., p. 300, pl. xlvi. figs. 14–20, 1874.

*Sponge.*—Massive, sessile; surface smooth.

*Spicules.*—I. Megascleres. 1. *Oxea*, 1.75 by 0.019 mm. 2. *Orthotriæne*, 2 by 0.0312 mm., cladi 0.2375 mm. long; chord 0.45 mm. 3. *Protriæne*, cladi 0.25 mm. long; chord 0.12 mm., sagitta 0.206 mm. 4. *Anatriæne*, cladi 0.144 mm. long; chord 0.15 mm., sagitta 0.125 mm.

II. Microscleres. 5. *Sterraster*, spherical, small. 6. *Oxyaster*, centrum absent, actines conical, 0.0254 mm. in diameter. 7. *Pycnaster*, actines bacillary, truncate, 0.0085 mm. in diameter.

*Colour.*—Cream-white (dried).

*Habitat.*—Mexico.

*Remarks.*—The measurements of the spicules are taken from Bowerbank's illustration. The generic position of the sponge is doubtful; the groups of oscules are circumscribed by a definite margin as in genuine *Geodias*.

*Geodia* (?) *ramodigitata*, Carter.

*Geodia ramodigitata*, Carter, Ann. and Mag. Nat. Hist., ser. 5, vol. vi. p. 133, pl. v. fig. 31, 1880.

*Sponge.*—Cylindrical, branching into finger-like processes; surface covered with attached detritus; oscules in groups or scattered singly; pores in sieves, generally distributed; cortex, 1.55 mm. in thickness.

*Spicules.*—I. Megascleres. 1. *Oxea*, 1.77 by 0.056 mm. 2. *Orthotriæne*, rhabdome 2.25 by 0.056 mm., chord 0.338 mm. 3. *Pro-* and 4. *Anatriænes*, cladi 0.056 mm. long.

II. Microscleres. 5. *Sterraster*, ellipsoidal, 0.14 by 0.112 mm. 6. *Somal chiaster*, 0.0043 mm. in diameter. 7. *Choanosomal chiaster*, actines slender, not tylote, 0.034 mm. in diameter.

*Colour.*—In the dry state, grey. Size, 125 mm. long, greatest diameter 8 mm.

*Habitat.*—Gulf of Manaar.

Section 4. *Monotriæna*.

Species possessing but one form of *oxea* and one form of *triæne*. Of these species there are but two, both incompletely characterised. It is therefore doubtful whether any of the *Geodias* really belong to this section.