

II. Microscleres. 4. *Sterraster*, ellipsoidal, with three unequal axes, 0·09, 0·116, and 0·142 mm. in length respectively. 5. *Somal spheraster*, minute, centrum comparatively large, actines short, cylindrical, truncate, from 0·004 to 0·007 mm. in diameter. 6. *Subcortical spheraster*, centrum large, actines numerous, cylindrical, minutely spined, especially towards the ends, 0·0276 mm. in diameter. 7. *Choanosomal chiaster*, centrum small, actines slender, cylindrical, tylote; 0·0236 mm. in diameter.

*Colour*.—(?).

*Habitat*.—Zlarin, Adriatic.

*Remarks*.—The choanosome is crowded with foreign bodies, grains of sand, and the like; and beneath the outer epithelium of the cortex the empty tests of Diatoms are accumulated as if to serve a skeletal purpose. The measurements given above were obtained from a part of one of Schmidt's types presented to me by Professor von Graff.

*Cydonium tuberosum* (O. Schmidt).

*Geodia tuberosa*, O. Schmidt, Spong. Adriat. Meeres, p. 50, pl. iv. fig. 10, 1862.

*Sponge*.—Irregularly tuberous; surface finely hispid, with projecting megascleres; cortex 1·143 mm. in thickness, ectochrome very thin. Pores in sieves overlying incurrent chones.

*Spicules*.—I. Megascleres. 1. *Oxea*, 3·93 by 0·05 mm. 2. *Orthotriæne*, rhabdome 3·6 by 0·075 mm., cladi 0·31 mm. long. 3. *Anatriæne*, rhabdome 3·6 by 0·023 mm., probably also longer, cladi 0·1 mm., chord 0·1 mm. long.

II. Microscleres. 4. *Sterraster*, spherical, depressed, 0·09 mm. in diameter. 5. *Somal pycnaster*, actines cylindrical with truncate ends, 0·012 mm. in diameter. 6. *Choanosomal oxyaster*, actines conical, slender, roughened, variable in number, 0·023 mm. in diameter. 7. *Subcortical spheraster*, actines conical, minutely spined; diameter 0·02 mm.

*Colour*.—Chalk-white in the dried state.

*Habitat*.—Zlarin, Adriatic.

*Remarks*.—The measurements were taken from a fragment of one of Schmidt's types sent me by Professor von Graff.

*Cydonium normani*, n. sp.

*Sponge*.—Large, ellipsoidal; surface thickly hirsute, owing to the projection of long spicules for about 25 mm. beyond it. Chones covered by sieve-like roofs. Oscules not distinguishable from the pores. Cortex consisting chiefly of the sterrastral layer,