

*Geodia paupera*, Bowerbank.

*Geodia paupera*, Bowerbank, Proc. Zool. Soc. Lond., p. 329, pl. xxxi. figs. 16–21, 1873.

*Sponge*.—Massive, coating; surface even, finely hispid; cortex, 0·48 mm. in thickness, ectocortex thin, transversed by cortical oxeas and containing minute chiasters (4); the inner fibrous layer of the cortex well defined, 0·06 mm. in thickness.

*Spicules*.—I. Megascleres. 1. *Somal oxea*, 1·1 by 0·02 mm. 2. *Cortical oxea*, 0·254 mm. long. 3. *Orthotriæne*, rhabdome 1 mm. long.

II. Microscleres. 4. *Sterraster*, small, spherical, 0·054 mm. in diameter. 5. *Somal chiaster*, actines cylindrical, truncate, 0·0054 mm. in diameter. 6. *Choanosomal chiaster*, actines slender, cylindrical, truncate, 0·024 mm. in diameter.

*Colour*.—Cream-white in dried state.

*Habitat*.—Unknown.

*Remarks*.—This species is founded on a fragmentary specimen, scarcely complete enough for generic identification; it appears however to bear oscules within a depressed area, like that of a true *Geodia*.

Section 3. *Ditriæna*.

Species from which cortical oxeas are absent; but possessing anatriænes or protriænes, or both, in addition to orthotriænes or dichotriænes.

*Geodia flemingii*, Bowerbank.

*Geodia flemingii*, Bowerbank, Proc. Zool. Soc. Lond., p. 3, pl. i. figs. 1–8, 1873.

*Sponge*.—Massive, sessile, hollow within; surface even, hispid; oscules collected in a group near the base; cortex 0·88 mm. in thickness; ectochrote not seen, as the sponge is worn by attrition.

*Spicules*.—I. Megascleres. 1. *Strongyle*, cylindrical, or fusiform, 1·6 by 0·029 mm. 2. *Dichotriæne*, protocladus 0·06 mm. long, deuterocladus 0·052 mm. long. 3. *Anatriæne*, rhabdome 0·008 mm. in diameter, cladus 0·084 mm. long, chord 0·078 mm.

II. Microscleres. 4. *Sterraster*, more or less ellipsoidal, 0·1 mm. in diameter. 5. *Somal spheraster*, with short, cylindrical, truncate actines, 0·007 mm. in diameter. 6. *Choanosomal spheraster*, actines cylindrical, minutely spined, truncate; 0·0254 mm. in diameter.

*Colour*.—Light cream-yellow in the dried state. Size, 44 mm. long, by 33 mm. broad, and 37 mm. high.

*Habitat*.—Port Elliot, Australia.