

arranged in two groups, radiating from opposite poles; the centrum 0.055 mm. in diameter.

*Colour*.—Red.

*Habitat*.—South coast of Lesina, two miles from the shore.

*Tethya diploderma*, O. Schmidt.

*Tethya diploderma*, O. Schmidt, Spong. Atlant. Gebiet., p. 52, pl. iv. fig. 11, 1870.

*Sponge*.—As in *Tethya lyncurium*.

*Spicules*.—I. Megasclere. 1. *Strongyloxea*, as in *Tethya lyncurium*.

II. Microscleres. 2. *Spheraster*, actines short, 0.03 mm. in diameter. 3. *Aster*, actines six to nine in number, often curved, with occasional tubercles, terminally tylote, 0.0085 mm. in diameter.

*Habitat*.—Antilles.

*Remarks*.—The structure of the cortex, which Schmidt seems to think exceptional, appears to me precisely similar to that of small specimens of *Tethya lyncurium*, such as occur in the variety *Tethya lyncurium*, var. *norvagica*.

*Tethya* (?) *innocens*, N., O. Schmidt.

This is mentioned by O. Schmidt (Spong. Atlant. Gebiet., p. 51) as uniting genuine Suberite tylostyles with asters.

*Tethya repens*, O. Schmidt.

*Tethya repens*, O. Schmidt, Spong. Atlant. Gebiet., p. 51, 1870.

*Sponge*.—A long crust, 10 mm. thick in the middle, with numerous flat papillæ, into which spicular bundles enter.

*Spicules*.—I. Megascleres. 1. *Strongyloxea*, somewhat strongylate at the eactinal end. 2. *Strongyle*, and 3. *Tylotoxea*, smaller than the strongyloxea.

II. Microsclere. 4. *Spheraster*, like that of *Tethya lyncurium*, with dichotomose actines.

*Habitat*.—Florida.

*Remarks*.—Although not mentioned by Schmidt, probably other asters besides the spheraster are present. The sponge may possibly be assignable to the genus *Columnitis*.