

four to ten in number, 0·0417 mm. in diameter. 3. *Somal aster*, smaller, with slenderer and more numerous actines than the preceding asters.

Colour.—White. Size, 125 mm. in height; orifice 6·3 mm., lower end 37 mm. in diameter.

Habitat.—(?).

Family III. TETHYIDÆ.

Genus 1. *Tethya*, Lamarck.

Tethya lyncurium, Lin. (Pl. XLIII. figs. 15–18; Pl. XLIV. figs. 17–19).

Tetie sferica, &c., Donati, Nat. Mar. dell' Adriat., p. 62, pl. x. fig. 1, 1750.

Alcyonium lyncurium, Lin., Syst. Nat., p. 1295, 1767.

Alcyonium aurantium, Pallas, Elench. Zooph., p. 357, 1776.

Tethya lyncurium, Lamk., Mém. d. Mus., t. i. p. 71, 1815; Hist. Anim. sans vert., t. ii. p. 386, 1816.

Alcyonium lyncurium, Lamx., Polyp. flexibles, p. 343, 1816.

Spongia verrucosa, Montagu, Mem. Wern. Nat. Hist. Soc., vol. ii. p. 117, pl. xiii. figs. 4–6, 1818.

Tethya spherica, Flem., Brit. Anim., p. 520, 1828.

Donatia lyncurium, Nardo, Isis, p. 522, 1833.

Tethya lyncurium, Blain., Man. d'Actinologie, p. 544, pl. xci. fig. 3, 1834.

Tethea lyncurium, Johnst., Brit. Spong., p. 85, woodcut 12, 1842.

Tethya lyncurium, vars. *nodulosa* and *contorta*, and *Tethya morum*, O. Sch., Spong. Adriat. Meeres, pp. 44, 81, 1862.

„ „ Bwk., Mon. Brit. Spong., vol. i. p. 182, pl. xxv. fig. 342, 1864; vol. ii. p. 92, 1866.

Donatia aurantium, Gray, Proc. Zool. Soc. Lond., p. 541, 1867.

Tethya lyncurium, O. Sch., Spong. Algier, pp. 22, 31, pl. iv. fig. 8, 1868.

Donatia aurantium, Carter, Ann. and Mag. Nat. Hist., ser. 4, vol. iv. p. 6, pl. ii. fig. 1, 1869.

Tethya lyncurium, O. Sch., Spong. Atlant. Gebiet., p. 51, 1870.

Tethea norvagica, Bwk., Proc. Zool. Soc. Lond., p. 121, pl. v. figs. 18–25, 1872.

Tethya lyncurium, Bwk., Mon. Brit. Spong., vol. iii. p. 38, pl. xv. figs. 17–22, 1874.

Donatia aurantium, Carter, Ann. and Mag. Nat. Hist., ser. 4, vol. xvi. p. 81 (sep. copy), 1875.

Tethya lyncurium, Dezsö, Archiv f. microsk. Anat., Bd. xvi. p. 626, pls. xxx.–xxxiii., 1878; Bd. xviii. p. 151, pl. xii., 1879.

„ „ Bwk., Norman, Mon. Brit. Spong., vol. iv. p. 44, 1882.

„ „ var. *obtusum*, Vosmaer, Niederländ. Archiv f. Zool., Suppl.-Bd. i. p. 25, pl. iv. figs. 123–126, 1882.

Donatia aurantium, Carter, Ann. and Mag. Nat. Hist., ser. 5, vol. xi. p. 363, 1883.

„ „ Carter, Proc. Acad. Nat. Sci. Philad., pp. 202, 209, 1884.

Tethya lyncurium, Vosmaer, Bijdr. Dierk., vol. xii. p. 10 (sep. copy), 1885.

Sponge.—More or less spherical, attached, sessile. Surface even or raised into mammillary bosses, which receive the corymbose termination of the skeletal fibres, pilose. Oscules small, one or more in number—frequently none are visible. Pores in sieves extending between the mammillæ, leading into more or less extensive intercortical cavities;