

number of forkings,<sup>1</sup> and in the comparative equality in length of the intermediate shafts. While a large *Gorgonocephalus agassizii* would have not more than a dozen or fourteen forkings from the main stem, this species has more than thirty; and the twigs from each of these forkings are generally very rich in forks. In this respect, however, the left stem is very poor as compared with the right. For example, the twelfth twig of the left stem has but eight forks, while the twelfth of the right stem has nearly three hundred. Some of the twigs on the outer part of the right stem have more forks than those further in; thus No. 12 has more than No. 5.

Simon's Bay, Cape of Good Hope; 10 to 20 fathoms.

Species of *Gorgonocephalus* not herein described.

*Gorgonocephalus arborescens*, Agas., Mém. Soc. Scien. Nat. Neuchatel, vol. ii., pls. iv., v., 1839.

*Stella arborescens*, Rondelet, De Pisc., p. 121, 1554.

*Euryale costosum*, Lmk., Hist. Anim. sans Vert., vol. ii. p. 538, 1816.

*Astrophyton costosum*, Agas., Mém. Soc. Scien. Nat. Neuchatel, vol. ii. p. 11, 1839 (*Gorgonocephalus* in the plates).

*Astrophyton arborescens*, Müll. & Tr., Syst. Ast., p. 124, 1842; Lym., Ill. Cat. Mus. Comp. Zool., No. i. p. 181; Bull. Mus. Comp. Zool., vol. i., part 10, p. 313, note; Ludwig, Echin. des Mittelmeeres, p. 552.

Mediterranean; West Indies.

*Gorgonocephalus lamarckii*, Lym.

*Asterias caput medusæ* (?), Linn., Fauna Suecica, 1761, No. 2115.

*Astrophyton Lamarckii*, Müll. & Tr., Syst. Ast., p. 123, 1842.

North European Seas.

*Gorgonocephalus eucnemis*, Lym.

*Asterias caput medusæ*, Fabr., Fauna Groenl., No. 367, 1780.

(?) *Zottenkopf*, Knorr Deliciæ Nat. Select., vol. ii. p. 34, pl. G, figs. 1, 2, 1787.

*Asterias caput medusæ*, Dewhurst, Nat. Hist. Ord. Cetacea.

*Astrophyton eucnemis*, Müll. & Tr., Syst. Ast., p. 123, 1842; Ltk., Addit. ad Hist., part 1, p. 70, pl. ii. figs. 17-19; Lym., Ill. Cat. Mus. Comp. Zool., No. i. p. 181.

Greenland; N. E. North America.

<sup>1</sup> See T. Lyman, Mode of Forking among Astrophytons, Proc. Bost. Soc. Nat. Hist., vol. xix. p. 7, March 1877.