

spiral of one and a half turns (Pl. XIII. fig. 8). The thread was removed from its sac and was then seen to present the form depicted in fig. 9. It is about 12 mm. in length, and there is a swelling near one end of it (fig. 9, *a*) which is evidently the rudiment of the "pyriform portion" or capsule figured by Steenstrup in *Tremoctopus quoyanus*, and by Vérany in several Mediterranean species;¹ while the more slender continuation of the arm is evidently the filament of other forms. One side of it bears two series of minute suckers, as far as the swelling above mentioned. There is nothing to indicate that the adult hectocotylus would differ materially from that of other species, but in the other young forms which I have seen, it has been developed in a small globular swelling, and not laid out flat under the skin.

As regards other specific characters, the dorsal arms are about twice the length of the mantle and a little longer than the second pair; the ventral arms are about as long as the mantle and nearly twice as long as the third pair. There is a pair of aquiferous pores on the top of the head, and another pair situated one on either side of the siphon; the eyes are large and spheroidal, but do not present the pedunculate appearance seen in Eydoux and Souleyet's figure.

Family V. ALLOPOSIDÆ, Verrill.

Alloposus, Verrill.

Haliphron (?), Steenstrup.

Alloposus mollis, Verrill.

1861. *Haliphron atlanticus* (?), Stp., Vid. Meddel. nat. Foren. Kjøbenhavn, Aar 1860, p. 333.
 1880. *Alloposus mollis*, VII, Amer. Journ. Sci. and Arts, vol. xx. p. 394.
 1881. " " VII, Ceph. N. E. Amer., pp. 366, 420, pls. 1, li. figs. 3, 4.
 1884. " " VII, Second Catal., p. 247.

Habitat.—North Atlantic. Two fragments of a dead specimen.

Off Newport, Rhode Island, 238 to 506 fathoms; off Chesapeake Bay, 300 fathoms; off Delaware Bay, 197 fathoms; off Martha's Vineyard, 310 to 715 fathoms; south of Nantucket Island, U.S.A., 1346, 1735 and 1731 fathoms (Verrill).

A bottle labelled "Part of a mutilated cuttle-fish picked up at sea. North Atlantic," came into my hands among the collection: it contained part of the interbrachial web near the mouth and a portion of an arm.

The web measures about 16 cm. in its greatest diameter, and contains portions of

¹ Hectocotyl., p. 208, pl. ii. fig. 8a; Céph. médit., pl. xli. I may here correct a mistake in Mr. Dallas' rendering of Steenstrup's paper (*Ann. and Mag. Nat. Hist.*, ser. 2, vol. xx., 1857); on p. 104, line 33, for "although this" read "and it." The mistake may have arisen through the English version having been taken from a German one and not directly from the Danish.