

This differs from *Cadulus curtus*, Wats., in being one-third larger; the mouth is perhaps less oblique, but being in both specimens much chipped, this may be accidental. The most remarkable feature of difference is that it is perfectly round, and not, like the other, laterally compressed. I attribute this difference to age. At all events, in the absence of a larger series of specimens, I believe it safer to include both under one species.

8. *Cadulus obesus*, Watson (Pl. III. fig. 8).

Cadulus obesus, Watson, Prelim. Report, pt. 2, Journ. Linn. Soc. Lond., vol. xiv. p. 527.

Station 24. March 25, 1873. Lat. $18^{\circ} 38' 30''$ N., long. $65^{\circ} 5' 30''$ W. Culebra Island, West Indies. 390 fathoms. Pteropod ooze.

Shell.—Short, very broad, narrowed at both ends, little bent, and that almost entirely toward the mouth, very much swollen in the middle, and bulging a good deal on the concave curve, a little more attenuated behind, and very slightly laterally compressed (in the proportion of 14 to a little less than 15). It is pretty strong, polished, translucent white, with one, sometimes two opaque rings near the apex. *Sculpture*: A few very vague and faint, distant, transverse lines. *Mouth* rather large, straight; edge thin and much chipped. *Apical opening* small, straight, chipped, narrowed inside by a minute shelf-like projecting ring. L. 0.109 in. B. at mouth 0.02; greatest 0.04; at apex 0.01.

This is nearly of the same proportions as *Cadulus curtus*, except being very much broader; like that, too, it is narrowed laterally. I have hesitated very much in making it more than a variety; but, on the whole, think it safer to reckon it as distinct. One specimen has its breadth exaggerated by a gibbous pad of enamel.

9. *Cadulus tumidosus*, Jeffreys (Pl. III. fig. 9).

Cadulus tumidosus, Jeffreys, "Valorous" Moll., Ann. and Mag. Nat. Hist., 1877, ser. 4, vol. xix. p. 156.

" " Jeffreys, "Lightning" and "Porcupine" Moll., Proc. Zool. Soc. Lond., 1882, p. 665, sp. 7, pl. xlix. fig. 8.

Station 78. July 10, 1873. Lat. $37^{\circ} 26'$ N., long. $25^{\circ} 13'$ W. Azores. 1000 fathoms. Volcanic mud.

Station 85. July, 19, 1873. Lat. $28^{\circ} 42'$ N., long. $18^{\circ} 6'$ W. Canaries. 1125 fathoms. Volcanic mud.

Habitat.—N. Atlantic, "Valorous," Station 12, 1450 fathoms. In the "Porcupine" Channel slope, 557 fathoms; Bay of Biscay, 292–1095 fathoms. "Josephine" expedition, 110–550 fathoms.

Fossil.—At Messina from the Pliocene (Jeffer.)