

males or females; but it has been noticed by the former that the sucker was usually smaller in female specimens than in males.

After studying the various figures and descriptions of *Firoloida* which have been published, I have not been able to arrive at any satisfactory or definite opinion with regard to the value of the species. Whether they will eventually all resolve themselves into one or two variable forms, or how many distinct species they constitute, is uncertain. In order to arrive at a definite decision it would be necessary to have a much larger series of specimens from various localities for examination than I have had the opportunity of studying. I think then it will be the safest course to leave this question unsettled, and also not to attempt to decide which of the figured males and females should be associated together.

I might, however, point out that Macdonald has erroneously stated that *Firoloida desmarestia* is the female of *Pterotrachea keraudrenii*. The latter has a rather unusual form for a *Pterotrachea*, but still I believe it belongs to that genus, as it has a caudal prolongation, the nucleus being far from terminal, and no tentacles, the latter, if my surmise be correct, being an essential characteristic of the males of *Firoloida*, their absence, therefore, clearly showing that the animal in question was not the male of *Firoloida desmarestia*.

Firoloida desmaresti, Lesueur.

1817. *Firoloida desmarestia*, Lesueur, Journ. Acad. Nat. Sci. Philad., vol. i. p. 39, pl. ii. figs. 1, 1b,
 1817. " " " *id.*, Bull. Soc. Philom. Paris, p. 160.
 1818. *Firloïdes desmarestia*, Oken, Isis, p. 1559.
 1820. *Firoloida desmarestia*, Blainville, Dict. d. Sci. Nat., vol. xvii. p. 68.
 1825. *Pterotrachea (Firoloida) desmarestiana*, *id.*, Blainville, Man. Malacol., p. 492.
 1850. " " *desmarestia*, Gray, Fig. Moll. Anim., pl. clv. fig. 8 (copy of
 Lesueur).
 1850. " " " *id.*, *op. cit.*, pl. ccxxxviii. fig. 1 (copy of Eydoux
 and Souleyet).
 1850 † *Firoloides desmaresti*, Deshayes, Traité Conch., pl. cii. fig. 4 (copy of Eydoux and Souleyet).
 1852. *Firoloida desmarestia*, Eydoux et Souleyet, Voy. "Bonite," Zool., vol. ii. p. 342, pl. xvi.
 figs. 1-4.
 1853. *Firloïdes desmarestii*, Huxley, Phil. Trans., vol. cxliii. pp. 30-36, pl. ii. figs. 1-8,
 (Anatomy).
 1855. *Firoloides desmarestii*, Gegenbaur, Untersuch. Pterop. und Heterop., p. 215.
 1855. *Pterotrachea desmarestina*, H. and A. Adams, Gen. Moll., vol. ii. p. 94.
 1856. *Firoloides desmarestii*, Troschel, Gebiss d. Schneck., vol. i. p. 45.
 1876. " *desmaresti*, Fol, Arch. d. Zool. Expér., vol. v. p. 105, pls. i., ii., iii.
 (Development).

Habitat.—Atlantic, near Martinique (Lesueur); Atlantic and Pacific Oceans (Eydoux and Souleyet).