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Umbellula from Greenland

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Nos. 2 to 5, above described, having a short, thick, massive body, and broad, but comparatively thin jaws, which are also different in form. Some of the differences in size and proportions, and in the suckers, observed among the four specimens referred to the latter species may be due to sex; for the sexes differ considerably in these characters in all known cuttlefishes.—*American Journal of Science and Arts*, Feb. 1874.

Umbellula from Greenland. By JOSHUA LINDAHL.

Mr. Lindahl has written a paper on the two specimens of *Umbellula* taken on the coast of Greenland. It will appear in the next volume of the 'Kongl. Vetenskaps-Akad. Handlingar' of Stockholm, illustrated with three quarto plates, each containing several figures.

Mr. Lindahl considers the two specimens different from one another and from the *Umbellula encrinus* of Linnæus figured by Mylius and Ellis. He observes he must confess that the difference may depend upon the difference of age, and as for *U. encrinus* upon imperfection in the figure and description. At all events, he thinks it better to describe his two specimens as two different and new species in order to call attention to the differences, observing "that when new investigations of the deep sea have brought together richer materials, as no doubt they will, if I have committed a mistake in this respect it will be easily corrected." He considers that *Umbellula* and *Crinillum* form one group, as Dr. Gray has pointed out. He regards them as true Pennatulids, and puts them among the "Zunft" Pennatulidæ as the fifth family, *Umbellulæ*, close to the family *Bathypyleæ* (Kölliker, 'Die Pennatuliden,' p. 380). The rachis, or *pars polypifera*, is about one fortieth of the length of the stem; polypes not retractile, without calyces, the lateral ones large and the dorsal small; the zooids are crowded in lateral and ventral shields ("Wülste," Köll.); the axis square, with one deep groove on each side; no spicula in any part of body.

On the Bos pumilus of Sir Victor Brooke.

By Dr. J. E. GRAY, F.R.S. &c.

Sir Victor Brooke's paper in the last number of the 'Annals' shows that he does not understand the question between us, and it contains many erroneous statements. I will therefore state the question as shortly as I can.

Sir Victor Brooke states at p. 159:—"Turton, having founded the name *Bos pumilus* upon Pennant's 'Dwarf,' it follows that the horns spoken of and figured by Pennant are typical specimens of '*Bos pumilus*.'" The statement that the fragment of the forehead and horns are typical of Pennant's "Dwarf," and therefore of the *B. pumilus* of Turton, who never refers to the specimen, is entirely inaccurate, as the following statement will prove.

Columna figured a buffalo from Morocco. Pennant and Turton abbreviated his description and called it the dwarf buffalo and *Bos*