

chlororhyncha, and *Phæbetria fuliginosa*, he states that the smaller of these ossicles is wanting, though the larger is still developed. In a table he proposes the annexed classification of the Procellariinæ.

I. Wing-ossicles present. Twelve rectrices.

a. Puffineæ—

Æstrelata, Puffinus, Majaqueus, Adamastor.

II. Wing-ossicles absent.

First primary longest.

More than twelve rectrices.

b. Fulmareæ—

Ossifraga, Fulmarus, Daption.

Twelve rectrices.

Margin of beak without lamellæ.

Pagodroma.

Beak with lamellæ.

c. Prioneæ—

Halobæna, Prion.

Second primary longest.

d. Procellarieæ—

Procellaria, Oceanites.

A. H. Garrod, in the same year, shows¹ that the Petrels being "holorhinal" must be separated from the "schizorhinal" Laridæ and their allies. He further proposes² to divide the Petrels or Nasutæ into two groups, the "Storm-Petrels," with a formula AB.XY and no cæca, and the "Fulmaridæ," with formula AB.X and two short cæca. *Bulweria* alone has a formula A.X and is therefore quite different from the Storm-Petrels. In both groups the great pectoral muscle is double, as in many of the "Ciconiiformes," and there are two carotids.³ The Nasutæ form the second cohort of his "Anseriformes," consisting of them and of the Anseres, which latter include the Anatidæ, Spheniscidæ, Colymbidæ, and Podicipitidæ.

1876. P. Pavesi, in his *Studi anatomici sopra alcuni uccelli*,⁴ has given a few details on the visceral anatomy of *Diomedea exulans*, especially as regards the form of the stomach and the presence of spines on the laryngeal eminence, continuous laterally with a zone of similar papillæ developed round the commencing œsophagus.

¹ Proc. Zool. Soc., 1873, p. 37; Collected Papers, p. 128.

² *Loc. cit.*, pp. 641, 642; 1874, p. 122; Collected Papers, pp. 204 and 220, 221. The passage on pp. 641, 642, describing the muscles of the Petrels, is unfortunately misprinted in the original paper. It is given in a corrected form, as altered by the writer, in the reprint of Professor Garrod's papers, p. 204. The two birds called in Garrod's text *Procellaria pelagica* (?) and *Procellaria fregata* (?), the "Storm-Petrels" on which his observations were based, were probably in reality *Oceanites oceanicus* and *Garrodia nereis* (cf. Proc. Zool. Soc., 1881, p. 736).

³ *Loc. cit.*, 1873, p. 470; Collected Papers, p. 175.

⁴ Ann. Mus. Civ. Gen., vol. ix. pp. 66-82.