The Sternum in the sub-genus Reinboldia

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Certain features of the sternum of the Fluttering Petrel (*Puffinus gavia*), separated by Mathews as a sub-genus, *Reinholdia*, appear to be characteristic and have not been mentioned before.

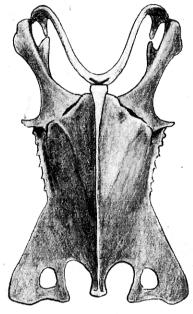


Fig. 1. Sternum and shoulder girdle of *Puffinus gavia huttoni*; ventral view (Specimen B 21979)

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The lateral borders of the sternum are more deeply angulated than in most of the Australian *Puffinus* species, excepting *Puffinus pacificus*, and the outer posterior lateral process (external lateral xiphoid process) is more boldly expanded than in any other local Puffinine form (Fig. 1).

There seems to be a strong tendency for the open notches of the posterior border to become converted into closed foramina. W. Α. Forbes (Zoology, Challenger pedition, vol. IV, pt. XI, 1882, p. 48) referred to the inconstancy of this feature but regarded it as an individual aparently. variation This Petrels mav be true for generally, but from the ten sterna I have examined. I gained the impression that the notches remain open in

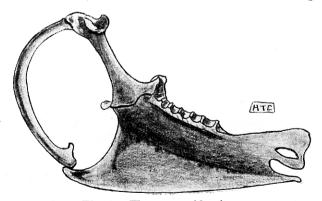


Fig. 2.—The same, side view,

B 21979

the youthful or sub-adult birds and tend to become closed as the individuals age. That is true alike of the large race, P. g. huttoni, and the smaller sub-species, although so far I have not seen any of the latter repeat the extreme condition of fenestration illustrated by a specimen of P. g. huttoni from South Australia (S.A. Mus. Coll., B 21979).

There is not enough material to determine whether there are constant differences between huttoni and the smaller races, and I have thought it of interest to include the series of drawings showing variations in the specimens examined and the stages in the progressive closure of the notches. Fig. 3 is of South Australian P. g. huttoni and



Fig. 3.—Hinder border of the sterna of P. g. huttoni from South Australia.

Fig. 4 of P. gavia subsp. from the Auckland district, New Zealand, excepting the first from the left in the lower row, which is that of an immature bird of P. g. byroni from New

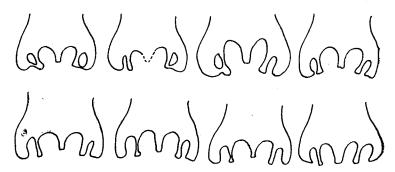


Fig. 4.—Hinder border of the sterna of P. gavia subsp. from New Zealand and New South Wales.

Specimen B 21979 is also immature. South Wales. Almost all of the sterna in Fig. 4 are from birds found dead on the beach and so probably represent a majority of immature individuals.