

septum resembles that of *Pygosceles*, while in *Spheniscus minor* the complete absence of a septum tracheæ is paralleled by the case of one specimen of *Eudyptes chrysocome* from Tristan d'Acunha.

A reference to the table on pp. 211–213 shows, moreover, that the dimensions of the tracheal septum do not constitute a generic distinction, that they are not constant in different specimens of one and the same species, and that they are not in any way characteristic of sex.

*Remarks.*—So far as I can ascertain, the discovery of the presence of a tracheal septum in the Penguins is due to Jæger,<sup>1</sup> who in a paper in Meckel's Archives described the tracheal septum as it occurs in *Aptenodytes demersa*. In a footnote he likewise refers to the occurrence in *Procellaria* of a corresponding subdivision of the windpipe by means of a longitudinal septum, and observes that in that genus the septum is more limited than in *Aptenodytes*. Jæger's observations have since been copied into nearly every text-book of comparative anatomy, but I cannot find that they have been extended to other species. At least neither Reid,<sup>2</sup> in his communication on the anatomy of *Aptenodytes patachonica*, nor Garnot,<sup>3</sup> in his anatomical account of *Aptenodytes demersa*, refers to the peculiarity in question.<sup>4</sup>

Specimen. <sup>5</sup>	Length of trachea.	Number of tracheal rings.	Length of bronchus.	Number of bronchial rings.	Length of septum tracheæ from bifurcation of trachea.	Number of tracheal and bronchial rings forming the syrinx.
<i>Eudyptes chrysocome</i> , from Tristan d'Acunha.						
No. 1 ♀	7	107	1	12	absent.	4
No. 2 ♂	...	...	...	...	$\frac{1}{8}$	...
<i>Eudyptes chrysocome</i> , from the Falkland Islands.						
No. 1 ♂	8	...	...	...	2	...
No. 2 ♂	$7\frac{1}{4}$	110	$1\frac{1}{4}$	15	$1\frac{1}{4}$	5

<sup>1</sup> Theilung der Luftröhre durch eine Scheidewand bei der Fettgans, *Aptenodytes demersa*, Meckel's Archiv für Anat. und Physiol., 1832, p. 48.

<sup>2</sup> Proc. Zool. Soc. Lond., 1835, p. 132.

<sup>3</sup> Anatomical account of *Aptenodytes demersa* in "Remarques sur la Zoologie des îles Malouines," par M. P. Garnot in Annales des Sciences Naturelles, Zoologie, 1826, tom. vii. p. 53.

<sup>4</sup> Since this paragraph was written, Mr. W. Forbes has published his observations on the anatomy of the Petrels, and has pointed out in several of these birds the existence of a tracheal septum similar to that described above in the Penguins.—Challenger Reports, Zoology, vol. iv., p. 32.

<sup>5</sup> In this table the dimensions of the trachea, &c., are given in English inches.