

XIV. *On the Mallophaga of the Shackleton-Rowett Expedition, 1921-1922.* By JAMES WATERSTON, B.D., D.Sc.

[Read May 2nd, 1923.]

At two points during the recent voyage of the "Quest"—St. Vincent (Cape Verde Is.) and St. Paul's Rocks—some examples of the above Order were collected by Capt. G. H. Wilkins. From the first locality an Owl was examined and from the second an Albatross. At St. Paul's Rocks also, Mallophaga were taken from the material of a Noddy's nest which was touching that of a Gannet. In the tube so labelled two parasites—one from each host—were mixed, and Capt. Wilkins correctly noted that he had seen one of the Noddy's nest parasites on the Gannet also. This mingling of parasites from different hosts, under natural conditions, is a somewhat uncommon and interesting phenomenon. It has been previously noted in the Galapagos Islands by Kellogg and Kuwana, who point out as its cause the enforced crowding together on a restricted land surface of hosts which have normally separate habitats.

In Capt. Wilkins' material—44 examples—the following five genera and species are represented.

MALLOPHAGA.

I. *AMBLYCERA.*

Family MENOPONIDAE Mjöberg.

Genus *COLPOCEPHALUM* Nitzsch.

Colpocephalum milleri Kell. and Kuw.

Colpocephalum milleri Kellogg and Kuwana. Proc. Wash. Acad. Sci., vol. iv, p. 483, Pl. XXX, fig. 6 (Sept. 1902).

3 ♀. *Sula leucogaster* and *Anous stolidus* (nest). St. Paul's Rocks, 8. xi. 1921.

The Noddy (*Anous*) is the true host. Originally described from this bird, and at the same time recorded from such diverse genera as *Butorides*, *Camarhynchus* and *Geospiza*.

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I have to thank my friend Prof. G. F. Ferris, Stanford University, California, for confirming this identification by comparison with the type.

II. *ISCHNOCERA.*

Family PHILOPTERIDAE Burmeister.

Genus *PHILOPTERUS* Nitzsch.

Philopterus rostratus Burm.

Philopterus rostratus Burmeister. Handbuch der Entomologie, Bd. 2, p. 427 (1838).

3 ♂, 13 ♀, 8 imm. *Tyto alba detorta*. Cape Verde Is. St. Vincent, 28. x. 1921.

Genus *ESTHIOPTERUM* Harrison.

Esthiopterum concinnum Kell. and Chap.

Lipeurus concinnum Kellogg and Chapman. New Mallophaga, iii, p. 97, Pl. VII, fig. 2 (28. ii. 1899).

♀. *Diomedea exulans*. St. Paul's Rocks, 8. xi. 1921.

Confirmed by Prof. G. F. Ferris by comparison with the type.

Genus *PECTINOPYGUS* Mjöberg.

Pectinopygus sulae Rud.

Lipeurus sulae Rudow. Zeitschr. für ges. Nat., xxxvi, p. 134 (1870).

Lipeurus helleri Kellogg and Kuwana. Proc. Wash. Acad. Sci., iv, p. 479, Pl. XXX, fig. 3 (1902).

4 ♀. *Sula leucogaster* and *Anous stolidus* (nest). St. Paul's Rocks, 8. ix. 1921.

The *Sula* is the real host.

Though more than one Esthiopterine species has been recorded from *Sula leucogaster*, I feel fairly confident in employing Rudow's *sulae* for these specimens. They seemed also to correspond well with the description and figure of *L. helleri*, an opinion confirmed by Prof. Ferris by comparison of one with the type.

The characters on which *Pectinopygus* Mjöb. is founded are largely specific, and if over-emphasised would restrict the genus to *P. bassanae* O. Fab., the well-known parasite of *Sula bassana* Linn. The Esthiopterines of Gannets, however, form a somewhat compact group to which *Pectinopygus* may conveniently be applied.

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Genus **DOCOPHOROIDES** Giglioli.

Docophoroides brevis Duf.

Philopterus brevis Dufour. Ann. Soc. Ent. France, iv, p. 676, Pl. 21, fig. 3 (1834).

3 ♂, 4 ♀, 5 imm. *Diomedea exulans*. St. Paul's Rocks, 8. xi. 1921.

This—the Wandering Albatross—is the normal host of *D. brevis*.

LISTS OF HOSTS AND PARASITES.

Tyto alba detorta Hart.

Philopterus rostratus.

Anous stolidus Linn.

Colpocephalum milleri.

and

Sula leucogaster Bodd.

Pectinopygus sulae.

Diomedea exulans Linn.

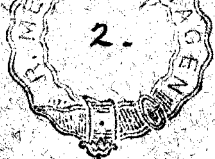
Esthiopterum concinnum.

Docophoroides brevis.

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