



59. **Anoplura (Siphunculata & Mallophaga) from Juan Fernandez Hosts.**

By

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This brief report is based on material collected by Mr. (now Dr.) K. BÄCKSTRÖM during Professor C. SKOTTSBERG's Expedition to Juan Fernandez in 1916—1917. In 1919, the collection was handed over to a specialist who, however, never found time to attend to it. The material had been allowed to become dry and many of the corks had become dislodged from the tubes in the course of years. Recently the whole collection was entrusted to me for study through the kindness of Professor O. LUNDBLAD by Dr. RENÉ MALAISE on the understanding that I would do the best I could with it. As a result of the collection having been left unattended to for many years and the fact that I noticed several obvious errors in host data — for which Dr. Bäckström is not responsible — in the course of mounting it I have not felt justified in spending as much time on it as I would have gladly done had the collection been in better shape. Two species from the mainland of Chile have been included. In the following notes I have only given a skeleton bibliography of the species.

Siphunculata.

Haematopinidae.

1. **Polyplax spinulosa** (Burmeister).

Pediculus spinulosus Burmeister, 1839, Rhynchota, Genera Insectorum, No. 8.
Polyplax spinulosa (Burmeister), FERRIS, 1923, Contrib. towards a Mon. Sucking Licè, IV, p. 187, f. 119, 120 A, D, F, H.

Several males and females from *Rattus rattus* (L.), Masatierra, 23. IV. 1917.

Mallophaga.

Menoponidae.

2. **Menopon** sp.

A single female said to have been taken from *Spheniscus magellanicus* Forst. which is undoubtedly an error. It is definitely one of the larger Menoponidae and the correct host is probably either an Albatross or a Petrel.

3. **Colpocephalum** sp.

A single female from *Cerchneis sparverius fernandensis* Chap., Masatierra, 28. I. 1917.

[**Tetrophthalmus chilensis** Grosse.

Tetrophthalmus chilensis Grosse, 1885, Z. wiss. Zool., XLIII, p. 530. *Tetrophthalmus chilensis* Grosse, FERRIS, 1928, Parasitology, XX, p. 224, f. 8.

Several females and males from *Pelecanus occidentalis thagus* Molina, Chile, Coronel, 14. VII. 1917.

The original description of this species was from *Pelecanus* sp. (Chile) but as FERRIS has suggested the type host may be taken to be *Pelecanus occidentalis thagus* Molina. The specimens at hand agree very well with FERRIS' redescription and figures.]

4. **Ancistrona vagelli** (Fabricius).

Pediculus vagelli Fabricius, 1787, Mant. Ins., p. 369. *Ancistrona vagelli* (Fabricius), Thompson, 1935, Ann. Mag. nat. Hist., Ser. 10, XVI, p. 398.

Several females said to have been taken off *Puffinus creatopus* Cones, Masatierra 26. I. 1917 & *Pterodroma neglecta* Schleg., same locality and date.

I have commented previously on the apparent rarity of the males of this large species.

Philopteridae.

5. **Austrogoniodes bifasciatus** (Piaget).

Gonicotes bifasciatus Piaget, 1885, Les Pédiculines, Suppl., Leiden, p. 47, Pl. 5, f. 6. *Austrogoniodes struthens* Harrison, 1915, Parasitology, VII, p. 398, Pl. 27, f. 6.

A few specimens of this interesting species were accompanied by quite incorrect host data in the collection. Owing to the distinctive character of the species I have no hesitation in stating that they were quite definitely obtained from *Spheniscus magellanicus* Forst., specimens of which were collected by the expedition at Santa Clara & Masatierra.

I am now proposing to sink HARRISON'S species as a synonym of PIAGET'S *A. bifasciatus* which incidentally was obtained from *Spheniscus magellanicus* Forst. and not *S. demersus* as stated by HARRISON (1916). After comparing a specimen determined as *A. strutheus* Harrison by its author with some of PIAGETS' original specimens I can find no apparent differences.

6. *Columbicola columbae* (Linn.).

Pediculus columbae Linn., 1758, Syst. Nat., p. 614. *Columbicola columbae* (Linn.), Ewing, 1929, A Manual of External Parasites, pp. 116, 190—191.

Numerous males and females from *Columba livia* var., Masatierra.

This parasite seems to be a universal parasite of domestic and closely allied species of pigeons.

[*Pectinopygus* (*Epipelicanus*) sp.]

A single female, somewhat damaged, from *Pelecanus occidentalis thagus* Molina, Chile, 11. IX. 1917.]

7. *Perineus obscurus* (Rudow).

Lipeurus obscurus Rudow, 1869, Beitrag zur Kenntnis der Mallophagen oder Pelzfresser, Diss., Halle, p. 13. *Perineus obscurus* (Rudow), Thompson, 1936, Ann. Mag. nat. Hist., Ser. 10, XVIII, p. 42.

A few specimens of what I take to be this species are present in the collection without host data. They may have come from a specimen of *Diomedea melanophrys* Boie collected at Masatierra. My determination may be open to doubt.

8. *Naubates pterodromi* Bedford.

Naubates pterodromi Bedford, 1930, 16th Rept. Vet. Res., S. Afr., p. 170, f. 10, 13.

Several specimens from *Pterodroma externa* Salvin, Masatierra, 26. I. 1917.

BEDFORD'S original description was based on specimens taken from *Pterodroma macroptera* Gm. The specimens here recorded agree so well with BEDFORD'S description and figures that in the absence of actual specimens for comparison I have no hesitation in stating that they represent his species.

9. *Halipeurus* sp. n.

A single damaged male from *Pterodroma externa* Salvin, Masatierra, 26. I. 1917, of what is quite definitely a new species of *Halipeurus*. It is a very large species but in the absence of further specimens in better condition it must remain for the present undescribed.

10. *Giebelia mirabilis* Kellogg.

Giebelia mirabilis Kellogg, 1896, Proc. Calif. Acad. Sci., Ser. 2, VI, pp. 138—140, Pl. XI, f. 7, 8. *Giebelia mirabilis* Kellogg, Waterston, 1914, Ann. S. Afr. Mus., X, pp. 296—299, Pl. XXV, t. 9, Pl. XXVI, f. 15, 17.

Numerous males and females from *Puffinus creatopus* Coues, *Pterodroma externa* Salvin & *Pterodroma neglecta* Schleg., Masatierra I. 1917.

11. *Docophoroides brevis* (Dufour).

Philopterus brevis Dufour, 1834, Ann. Soc. ent. Fr., IV, p. 676, Pl. XXI, t. 3. *Eurymetopus taurus* Nitzsch, Waterston, 1914, Ann. S. Afr. Mus., X, p. 302, t. 3. *Docophoroides brevis* (Dufour), Bedford, 1929, 15th Rept. Vet. Res., S. Afr. p. 530, f. 33 (D).

Many males and females in rather poor condition. The true host of this species is an Albatross and the specimens at hand were probably taken from *Diomedea melanophrys* Boie, Masatierra. The host data is so varied in the actual collection that it would be unsafe to give it here. The specimens seem to agree in every respect with the above named *Docophoroides*.

Printed ²⁵/₄ 1938.

Extract from *The Natural History of Juan Fernandez and Easter Island*.
Ed. by Dr. Carl Skottsberg. Vol. III.