

X. *On the Mallophaga of the Spitsbergen Expedition.** By
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THE Mallophaga secured by members of the expedition are few in number, only 28 examples representing 7 species and 5 genera having been placed in my hands for report. The hosts examined were as follows: Hooded Crow, Barnacle Goose, Pink Footed Goose, Grey Phalarope, Purple Sandpiper, Fulmar Petrel, and about one-third of the Mallophaga known from these birds were found.

In the notes given below Harrison's arrangement ("Parasitology," vol. ix, No. 1, Oct. 1916) of the Mallophaga has been followed, while for the hosts the names given in the Rev. F. C. Jourdain's recent paper ("The Ibis," ser. xi, vol. iv, No. 1, p. 159, Jan. 1922) have been adopted.

No sucking lice were, apparently, secured.

MALLOPHAGA.

I. *AMBLYCERA*.

Family MENOPONIDAE Mjöberg.

Genus **MENOPON** Nitzsch.

Menopon lutescens Burm.

Menopon lutescens Burmeister. Handbuch der Entomologie, Bd. 2, p. 440 (1838).

♀. Purple Sandpiper. Klaas Billen Bay (C. S. Elton leg.), 15. viii. 1921.

I have followed Piaget ("Les Pédiculines," p. 447, Leide 1880) in interpreting this species, which has a wide range of hosts amongst shore- and sea-birds.

* Results of The Oxford University Expedition to Spitsbergen. No. 9.

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Genus **TRINOTON** Nitzsch.**Trinotum anserinum** Fab.

Pediculus anserinus Fabricius. Syst. Antl., p. 345 (1805).

- (a) ♀. Barnacle Goose. Advent Bay (J. D. Brown *leg.*), 26. vi. 1921.
 (b) ♀. Pink Footed Goose. Sassen Bay (G. Binney *leg.*), 17. vii. 1921.
 (c) ♂. Grey Phalarope. Liefde Bay (T. G. Longstaff *leg.*), 8. vii. 1921.

(The *Trinotum* is of course a straggler on the last host.)

T. anserinum occurs commonly on various Palaearctic Geese, and, it is said, on members of the Genus *Cygnus* also.

II. **ISCHNOCERA.**Family **PHILOPTERIDAE** Burmeister.Genus **PHILOPTERUS** Nitzsch.**Philopterus corvi** Linn.

Pediculus corvi Linné. Syst. Nat., x, p. 612 (1758).
 3 imm. Head of Hooded Crow. Norway, Tromsø (H. L. Powell *leg.*), 9. vi. 1921.

Philopterus fusiformis Denny.

Docophorus fusiformis Denny. Mon. Anopl. Brit., p. 84, Pl. 1, fig. 2 (1842).

- (a) 2 ♀. Bear Island (T. G. Longstaff *leg.*), 16. vi. 1921.
 (b) 4 imm. Klaas Billen Bay (C. S. Elton *leg.*), 15. viii. 1921.

In both cases on Purple Sandpiper on which this parasite regularly occurs.

Genus **DEGEERIELLA** Neumann.**Degeeriella zonaria** Nitzsch.

Nirmus zonarius Nitzsch, in Giebel Zeit. f. ges. Nat., xxviii, p. 374 (1866).

- (a) ♂. Bear Island (T. G. Longstaff *leg.*).
 (b) 4 ♂, 2 ♀. Klaas Billen Bay (C. S. Elton *leg.*), 15. viii. 1921.

In both cases from Purple Sandpiper.

Degeeriella actophilus Kell. and Chap.

Nirmus actophilus Kellogg and Chapman. New Mallophaga, iii, p. 78, Pl. VI, fig. 4 (28. ii. 1899).

- (a) ♀. Bear Island (T. G. Longstaff *leg.*), 16. vi. 1921.
 (b) ♂, 2 ♀, 1 imm. Klaas Billen Bay (C. S. Elton *leg.*), 15. viii. 1921.

In both cases from Purple Sandpiper. *D. actophilus* is a common parasite of the smaller waders.

Genus **ESTHIOPTERUM** Harrison.**Esthiopterum nigrolimbatum** Gieb.

Lipeurus nigrolimbatus Giebel. Insecta Epizoa, p. 233, Leipsic (1874).

3 ♀. Fulmar Petrel. Bear Island (J. D. Brown *leg.*), 16. vi. 1921.

An abundant parasite of Fulmars both in the Pacific and in the Atlantic.

HOST LIST WITH PARASITES.

Corvus cornix cornix Linn.

Philopterus corvi.

Branta leucopsis Bechst.

Trinotum anserinum.

Anser brachyrhynchus Baillon.

Trinotum anserinum.

Phalaropus fulicarius jourdaini Iredale.

Trinotum anserinum.

Erolia maritima maritima Brünnich.

Menopon lutescens.

Philopterus fusiformis.

Degeeriella zonaria.

Degeeriella actophilus.

Fulmarus glacialis glacialis Linn.

Esthiopterum nigrolimbatum.

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