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THE MOUNTAIN FAUNA OF THE VIRIHAURE AREA IN SWEDISH LAPLAND

BY

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WITH CONTRIBUTIONS BY

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II. SPECIAL ACCOUNT

Mallophaga.
 by
 Overgaard.



LUND
 C. W. K. GLEERUP

MALLOPHAGA

By C. Overgaard

The present material consists of 8 preparations in Canada balsam and 3 tubes with animals preserved in alcohol. Altogether there are 95 specimens belonging to 6 species, but only four species have been identified with certainty.

1. (*Philopterus*) sp. — R. A.: Hildomvare, 1000 m, on *Charadrius hiaticula tundrae* (Lowe).

The specimen is embedded in Canada balsam and fairly untransparent, and the content of the intestine conceals the subgenital plate. Probably the animal belongs to (*Philopterus*) *platygaster* Denny or to some closely related species.

2. *Degeeriella hiaticulae* (Denny) (syn. *Nirmus hiaticulae* Denny, 1842, p. 136). — R. A.: Hildomvare, 1000 m, $\frac{9}{7}$, 2 ♂♂, on *Charadrius hiaticula tundrae* (Lowe).

Distr.: Greenland, England, Denmark (not published), Finland. The species has not been reported from Sweden before. — Host: *Charadrius hiaticula* L.

3. *D. bicuspis* (Nitzsch) (syn. *Nirmus bicuspis* Giebel, 1874, p. 155; *N. bicuspis* Piaget, 1880, p. 184). — R. A.: Hildomvare, 1000 m, $\frac{9}{7}$, $\frac{9}{7}$, 2 ♂♂, 1 ♀, on *Charadrius hiaticula tundrae* (Lowe); Lemakjaure, 950 m, $\frac{9}{7}$, 1 ♂, 2 ♀♀, on *Calidris m. maritima* (Brünn.).

Distr.: Greenland, Germany, Holland, not previously reported from Sweden. — Hosts: *Charadrius hiaticula* L., *C. minor*.

Piaget (1880) reports the species from *Recurvirostra avosetta*. His figures show, however, that the specimens from this host probably belong to a species separate from *D. bicuspis*. Fig. 6 shows the subgenital plate of a female from *Charadrius hiaticula*. It has not been possible to give a correct drawing of the male genital organs owing to air bladders in the preparations, but the shape of the abdomen, the colour and the chaetotaxy agree well with the descriptions of Piaget.

4. *Lagopoecus affinis* (Children) (syn. *Nirmus affinis* Children 1836, p. 537; *Lagopoecus affinis* Clay, 1938, p. 190). — R. A.: Lemakjaure, 1000 m, $\frac{10}{7}$, 12 ♂♂, 39 ♀♀, several juv., on *Lagopus m. mutus* (Montin); Stuor Titir, 750 m, $\frac{30}{7}$, 1 ♂, 2 ♀♀, on *Lagopus l. lagopus* (L.); Hildomvare, 900 m, $\frac{10}{7}$, 3 ♂♂, 4 ♀♀, on an adult *Lagopus l. lagopus* (L.); Hildomvare, 900 m, $\frac{10}{7}$, 2 ♂♂, 3 ♀♀, 3 juv., on a young *Lagopus l. lagopus* (L.).

Distr.: Arctic North America, Canada, Scotland, Spitsbergen, not previously reported from Sweden. — Hosts: *Lagopus mutus* (Montin) and *L. lagopus* (L.).



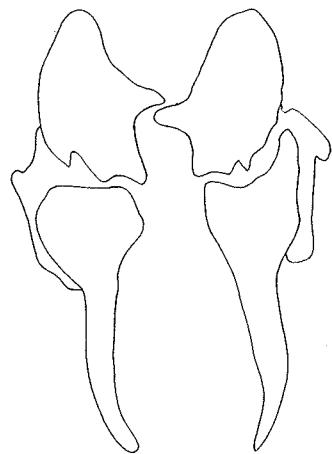


Fig. 6. *Degeeriella bicuspis* (Nitzsch.). Female subgenital plate.

5. *Gonocephalus chelicornis* (Nitzsch., sensu Kéler, 1939, p. 79). — R. A.: Hildomvare, 900 m, $\frac{1}{8}$, 6 ♂♂, 4 ♀♀, on an adult *Lagopus l. lagopus* (L.); Hildomvare, 900 m, $\frac{1}{8}$, 1 ♂, 1 ♀, 1 juv., on a young *Lagopus l. lagopus* (L.).

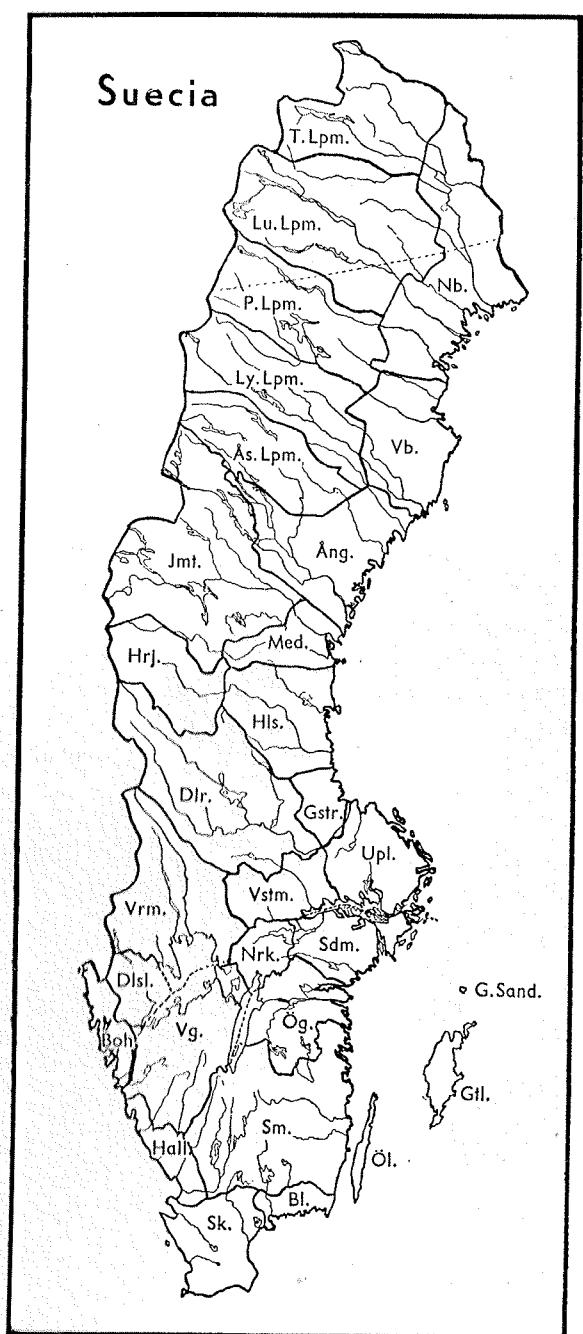
Distr.: Arctic North America, Russia, Finland, Sweden, Denmark, Germany, Holland, France, Hungary. — Hosts: *Tetrao urogallus* L., *T. media?* *Lagopus lagopus* (L.). Meinert (1897) reports the species also from *Lagopus mutus* in Greenland. It has never been refound on this host, even if its presence there seems very probable.

6. (*Onchophorus*) sp. — R. A.: Lemakjaure, 950 m, $\frac{1}{7}$, 1 ♂, 2 ♀♀, on *Calidris m. maritima* (Brünn.).

It has not been possible to identify the species with certainty owing to air bladders in the preparation.

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T. Lpm.	= Torne Lappmark
Lu. Lpm..	= Lule Lappmark
P. Lpm.	= Pite Lappmark
Ly. Lpm.	= Lycksele Lappmark
Ås. Lpm.	= Åsele Lappmark
Nb.	= Norrbotten
Vb.	= Västerbotten
Jmt.	= Jämtland
Ång.	= Ångermanland
Med.	= Medelpad
Hrj.	= Härgedalen
Hls.	= Hälsingland
Dlr.	= Dalsland
Gstr.	= Gästrikland
Vrm.	= Värmland
Vstm.	= Västmanland
Upl.	= Uppland
Sdm.	= Södermanland
Nrk.	= Närke
Dlsl.	= Dalsland
Boh.	= Bohuslän
Vg.	= Västergötland
Ög.	= Östergötland
G. Sand.	= Gotska Sandön
Gtl.	= Gotland
Öl.	= Öland
Sm.	= Småland
Hall.	= Halland
Bl.	= Blekinge
Sk.	= Skåne

Lapland (Lpl.) is divided
into five lappmarks.