

## Notes and News.

### ENTOMOLOGICAL GLEANINGS FROM ALL QUARTERS OF THE GLOBE

#### Bird Lice (Mallophaga) Attaching Themselves to Bird Flies (Dip., Hippoboscidae).

Finding two instances of this phenomenon led the writer to look up previous records. In this he has had the help of Dr. Joseph Becquaert. The latter and Mr. J. R. Malloch named the bird flies concerned in the present cases and Mr. E. A. Chapin the bird lice. In each of the two instances the fly was *Ornithomyia avicularia* L. as our slightly differentiated form is still known, and it happened also that the louse in each case was the same, namely, *Degeeriella rotundata* Osborn. One collection was made at the mouth of the Macfarlane River, Lake Athabaska, Saskatchewan, Aug. 11, 1920, by Francis Harper, from what bird is not stated, and the other from a western crow (*Corvus brachyrhynchos hesperis*) taken near Ontario, Oregon, Sept. 30, 1920, by E. R. Kalm-dach. In both cases the mallophagan had attached itself to the hippoboscid by biting the mandibles into the upper surface of the abdomen near the hind margin.

References in the literature to cognate observations are:

[BANKS, NATHAN.] Entomological Notes from the Museum of Comparative Zoology, Psyche, Vol. 27, No. 1, Feb., 1920, p. 20.

Two specimens of Mallophaga on an *Ornithomyia*, one on each side near the tip of the abdomen.

FORSIUS, RUNAR. Ueber den Transport von Mallophagen durch Hippobosciden. Meddel af. Soc. pro Fauna et Flora Fennica, 38, pp. 58-60, Feb. 3, 1912.

A mallophagan, probably *Nirmus quadratulus* Nitzsch, fastened at base of wing of *Ornithomyia avicularia* L. p. 58.

Two mallophaga, one on the hind tibia, one on the abdominal hairs of an *Ornithomyia avicularia* L., one of them being identified as *Nirmus uncinus* Nitzsch. p. 59.

JACOBSON, EDW. Mallophaga transported by Hippoboscidae. Tijds. voor Ent. 54, 1911, pp. 168-9.

"mallophagan clasped between the legs" of an *Ornithoeca pusilla* Schiner. MJOBERG, ERIC. Studien über Mallophagen und Anopluren. Arkiv. f. Zoologi, VI, No. 13, 1910, p. 10.

7 *Docophorus leontodon* Nitzsch on one, 3 upon another specimen of *Ornithomyia*, firmly attached to long hairs of abdomen.

[SHARP, DAVID.] [Mallophagan on *Ornithomyia*.] Proc. Ent. Soc. Lond., 1890, p. xxx.

Dr. Sharp exhibited a specimen of *O. aviculare* L., collected at Dartford, England, "to which were firmly adhering—apparently by their mandibles—several specimens of a mallophagous insect."

WANACH, B. Transport eines *Philoapterus* durch *Ornithomyia avicularia* L. Ent. Rundschau, 27, No. 17, Sept. 1, 1910, p. 121. "fest an den Hinterleib."

The extent to which the Hippoboscid genus *Ornithomyia* figures in the above records is rather surprising, certainly more than would be expected considering the abundance of flies of this genus relative to others in the family.—W. L. McATEE, U. S. Biological Survey, Washington, D. C.



McAtee, W. L. 1922. "Bird-lice (Mallophaga) attaching themselves to bird-flies." *Entomological news, and proceedings of the Entomological Section of the Academy of Natural Sciences of Philadelphia* 33, 90.

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