

Brief report

Two species of Bibionidae (Diptera) new to the Finnish fauna

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Bibio varipes Meigen, 1830 and *Dilophus borealis* Skartveit, 1993 are recorded as new species to the Finnish fauna. *Bibio lepidus* Loew, 1871 should be reintroduced into the Finnish list. — Entomologica Fennica 10: 115–116.

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The Finnish bibionid fauna was dealt with by Lundström (1910, 1921). Fourteen species were listed by Hackman (1980). When examining the collection of the Central Museum of Natural History, Helsinki, I encountered two species not previously recorded from Finland.

Bibio varipes Meigen, 1830

New record: Finland 667:11 Al, Lemland: Flaka 21.V. 1993, H. Silfverberg leg, 1 male 1 female.

This is a southern coastal species in Scandinavia, having a somewhat western distribution. The species is very common in southwestern Norway but seemingly scarce in Sweden. It is mainly a deciduous forest species which can often be found in abundance at forest edges, but may also occur in conifer forest.

Dilophus borealis Skartveit, 1993

Revised records: Finland: Al, (Åland) E.J. Bonsdorff leg. Ta, Tavastia A. Palmèn leg.; Teisko R. Frey leg. Ka, Lappvesi J. Sahlberg leg. Ks, Kuusamo Montell leg. Ok, Kianto Mäklin leg. Ob, Uleåborg (Oulu) Hermansson leg. Eastern Karelia: Petrosawodsk, Günther leg. Impilaks, Forsius leg. All listed by Lundström (1910) as *Dilophus femoratus* Meigen.

New records: Finland, 705:25 Om, Jakobsstad 20.VIII. 1953, 24.VIII. 1953, R. Storå leg.; Nykarleby 27.VIII. 1940 R. Storå leg. VIII Yläne, J. Sahlberg leg. Eastern Karelia: Kolatsetkä 7.VIII. 1943, L. Tiensuu leg. Kl, Sordavala L.v. Essen leg.

This species is habitually quite similar to *Dilophus femoratus* Meigen, from which it was recently distinguished

(Skartveit, 1993). In contrast to *D. femoratus*, this is an autumn-flying species, with a flight period between mid-August and mid-October. It is a boreoalpine species in a European perspective but occurs even at coastal localities in Finland (for instance Åland and Oulu). The species has been recorded from Norway, Sweden (Skartveit 1993), Russia (Nartshuk 1995), Switzerland, France and Spain (Skartveit and Haenni 1997). Like in most *Dilophus*, the male terminalia should be macerated and studied for an accurate species identification.

Taxonomic note on *Bibio lepidus* Loew, 1871

This species was recorded from Finland by Lundström (1910). Hackman (1980), however, followed various continental authors in listing it as a synonym of *Bibio clavipes* Meigen. I do not agree with this synonymy, as Scandinavian populations of the two nominal species are readily differentiated and intermediate populations seem not to occur in Scandinavia. In Central Europe the species seem to merge into one species; series of Central European specimens often show various intermediate forms between a typical *B. clavipes* (milky-white wings with indistinct pterostigma, long palps, strongly swollen hind tarsi in males) and a typical *B. lepidus* (clear wings with dark pterostigma, shorter palps, less swollen hind basitarsi). However, as long as the two morphological groups appear to form readily identifiable entities without overlap in Scandinavia, they should be treated as good species, despite their unclear central European status.

Previous record: N., Helsingø R. Frey leg. (Lundström 1910).

New record: Eastern Karelia: AK, Vaaseni 11.IX. 1942, L. Tiensuu leg.

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