Materials on Latvian Diptera
(Xylophagidae, Athericidae, Rhagionidae)

AINA KARPA

Institute of Biology, University of Latvia, 3 Miera Str., LV-2169, Salaspils, Latvia; e-mail: ainam@email.lubi.edu.lv


Abstract: A review of the collections of flies stored in the Institute of Biology, University of Latvia was made for three fly families. Three species of Xylophagidae, two species of Athericidae and ten species of Rhagionidae were identified. Eleven species are listed for Latvia for the first time.

Key words: Diptera, Xylophagidae, Athericidae, Rhagionidae, Latvia, fauna.

Introduction

The first records for the families Xylophagidae, Athericidae, Rhagionidae were published in the first part of the 19th century (Gimmerthal, 1842) and the next records appeared only recently (Karpa, 1997, 2000). A review of the collections of flies located in the Institute of Biology, University of Latvia was made for three fly families. Three species of Xylophagidae, two species of Athericidae and ten species of Rhagionidae were identified. Eleven species are listed for Latvia for the first time, marked with an asterisk (*).

Xylophagidae is group of primitive flies. Earlier, they were placed in Rhagionidae (Lindner,1925), but now are considered as a separate family. The adults are medium to large-sized flies, resembling wood-wasps because of their elongated thorax and abdomen. The larvae are associated with rotted wood while the adults seem to visit flowers (Grootaert , De Buyn, Meyer, 1991).

Athericidae is a primitive brachycerous family only recently (Stackenberg, 1973) separated from the Rhagionidae. Adults feed on nectar. Larvae live on aquatic vegetation and are known to be predaceous on Chironomid larvae and Ephemeroptera nymphs.

Rhagionids are small to medium-sized flies with adults of the recent species generally occurring in moist forest habitats in undergrowth and foliage where they prey on other insects. Larvae live in damp soil rich in organic matter and are presumed to be predaceous on other insects.

List of species

XYLOPHAGIDAE

Xylophagus Meigen, 1803
Xylophagus junki (Szilady, 1932)*
Localities: Mazsalaca, 22.05.1990 (1 specimen) leg. V.Spuņģis; Garkalne, 20.05.1999 (1) leg. K.Vilks.

Xylophagus cinctus (De Geer, 1776)*
Locality: Mazsalaca, 25.05.1991 (1) leg. V.Spuņģis.

Xylophagus compeditus Meigen, 1820*
Locality: Mazsalaca, 07.05.1990 (1) leg. V.Spuņģis.

ATHERICIDAE

Atherix Meigen, 1803
Atherix ibis (Fabricius, 1798)
Localities: Tukums, 18.08.1981 (3) leg. Z.Spuris; Salaspils, 17.05.1990 (1) leg. V.Spunģis; Šķervele, 03.06.1990 (3); near Korgītes river, 06.06.1991 (2); Zaķi, 07.06.1990 (1) leg. A.Karpa.
Atherix aurichalcea (Becker, 1921)*
Locality: Skrīveri, 03.06.1962 (1) leg. V.Eglitis.

RHAGIONIDAE

Chrysopilus Macquart, 1826
Chrysopilus auratus (Fabricius, 1805)*
Localities: Lake Luknas, 09.08.1952 (1); Jaundubulti, 17.07.1956 (1) leg. Z.Spuris.

Chrysopilus splendidus (Meigen, 1820)*
Localities: Jaundubulti, 17.07.1956 (2); Krievräciems, 05.07.1958 (2); Abava, 19.07.1959 (1) leg. Z.Spuris; Skrīveri, 21.06.1985 (3) leg. A.Karpa.

Rhagio Fabricius, 1775
Rhagio conspicuus Meigen, 1804
Locality: Zīluži, 17.06.1991 (1) leg. A.Karpa.

Rhagio lineola Fabricius, 1794

Rhagio funebris Meigen, 1820*
Localities: Bog Stompaku, 09.07.2001 (1); Taurene, 15.06.2002 (1) leg. A.Karpa

Rhagio maculatus (De Geer, 1776)*
Localities: Taurene, 10.06.1999 (2); Valgums, 06.06.1999 (1); lake Engures, 08.07.2002 (1) leg. K.Vilks.

Rhagio notatus (Meigen, 1820)*
Locality: Grieze, 02.06.1992, (1) leg. V.Spuņģis.

Rhagio tringarius (Linnaeus, 1758)*
Localities: Gauja, 17.07.1954 (3); Pūre, 05.07.1956 (2); Abava, 19.07.1959 (1); outlet of Lēses river, 12.07.1959 (1) leg. Z.Spuris; Carnikava, 04.08.1998 (1); Ērgļi, 08.08.1998 (2) leg. K.Vilks.

Symphoromyia Fauenfeld, 1867
Symphoromyia crassicornis (Panzer, 1806)
Localities: Kūķi, 02.07.1986 (2); Skrīveri, 11.06.1992 (1); Kuviži, 10.07.1997 (1) leg. A.Karpa; Salaca, 20.06.1991 (1) leg. V.Spuņģis.

Kopsavilkums

Latvijas Universitātes Bioloģijas institūta kolekcijās konstatētas trīs Xylophagidae, divas Athericidae un desmit Rhagionidae dzimtu mušu sugas. No tām vienpadīsmāt sugas Latvijas faunai minētas pirmo reizi.

References


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