

## NEW DATA ON THE DIPTERA FAUNA OF LITHUANIA

ANDRIUS PETRAŠIŪNAS

Department of Zoology, Vilnius University, M. K. Čiurlionio 21/27, LT-03101 Vilnius, Lithuania. E-mail: Andrius.Petrasiunas@gf.vu.lt

### Introduction

The latest list of Lithuanian Diptera included 3311 species (Pakalniškis *et al.*, 2006) with several later publications (Dumčius, 2008; Lutovinovas, 2007, 2009, 2010; Lutovinovas & Rozkošný, 2009; Petrašiūnas, 2008; Petrašiūnas & Visarčuk, 2007; Podėnas, 2008) adding 120 more. Although fauna of several Diptera families in Lithuania is studied comparatively better (e.g. Agromyzidae, Limoniidae, Syrphidae, Tipulidae), the vast majority is still discussed in only one or several publications; therefore every new case is of scientific value.

### Material and Methods

The majority of material was collected by the author of this report, A. Petrašiūnas (A.P.), also by S.Podėnas (S.P.), while the oldest specimens from 1926–1929 were collected mainly by M. Ostrejková (M.O.). Many other collectors are referred in the text accordingly. All the specimens were caught by sweeping in the vegetation except those from Drupiai, Skuodas distr., that were caught by Malaise trap. Specimens were identified by the author of this report using the keys of Bey-Bienko (1969, 1970), van Veen (2010, 2011). All the material is deposited at the Museum of Zoology of Vilnius University, Vilnius (urn:lsid:biocol.org:col:35068). Species new to the Lithuanian fauna are marked with an asterisk (\*).

### List of localities

Biržai district	Karajimiškis	56°12'35"N, 24°41'33"E
	Ruoliškis lake env.	56°12'30"N, 24°48'10"E
Jurbarkas district	Seredžius	55°04'45"N, 23°25'04"E
Kaunas city	Jiesia river valley	54°51'09"N, 23°56'16"E
	Netoniai	54°56'25"N, 23°43'25"E
Mažeikiai district	Krakiai env.	56°17'37"N, 22°27'12"E
	Mažeikiai town env.	56°18'N, 22°21'E
Molėtai district	Siesartis lake env.	55°13'24"N, 25°28'58"E
	Slišišķiai	55°17'20"N, 25°28'00"E
Radviliškis district	Bandymai pond env.	55°48'09"N, 23°29'22"E
	Linkaičiai	55°46'46"N, 23°36'50"E
Skuodas district	Drupiai	56°12'40"N, 21°41'08"E
Šakiai district	Unknown	54°57'N, 23°02'E
	Tervydoniai	55°01'41"N, 23°26'57"E
Šalčininkai district	Eišišķės	54°10'19"N, 24°59'51"E

	Rūdninkai giria f.	54°24'03"N, 25°06'16"E
Švenčionys district	Apskritys lake env.	55°11'45"N, 25°47'18"E
	Burbliškė [Burbliuszki]	54°57'05"N, 25°43'06"E
	Jedlinavas [Jedlinowo]	54°57'59"N, 25°41'23"E
Trakai town		54°38'26"N, 24°55'51"E
Varėna district	Puvočiai	54°06'54"N, 24°18'11"E
Vilnius city	Belmontas	54°40'40"N, 25°20'08"E
	Grigiškės	54°40'17"N, 25°05'48"E
	Liepkalnis	54°39'47"N, 25°19'03"E
	Markučiai	54°51'07"N, 24°04'01"E
	Vilnius	54°41"N, 25°16"E
Vilnius district	Skirgiškės	54°49'44"N, 25°21'47"E

### List of species

#### ACROCERIDAE

##### *Ogcodes (Ogcodes) gibbosus* (Linnaeus, 1758)

Puvočiai, 28 06 2000, 1 spec. (leg. S. Voluniec); 18 06 1999, 1 spec. (leg. N. Gerasimčik); 01 07 2010, 1 spec. (leg. R. Krasauskas); 06 07 2010, 1 spec. (leg. L. Aitmanaitė).

#### BOMBYLIIDAE

##### *Anthrax anthrax* (Schrank, 1781)

Burbliškė, 06 07 1926, 1♀ (leg. unknown).

##### *Bombylius (Bombylius) discolor* Mikan, 1796

Bandymai pond env., 24 04 2011, 1♀; Drupiai, 09–16 07 2006, 2♀; Liepkalnis, 11 05 2011, 1♀ (A.P.); Ruoliškis lake env., 16 05 1998, 2♂ (S. P.); Krakiai, 29 04 1989, 1♂ (leg. unknown); Mažeikiai env., 01 05 1989, 1♀ (leg. unknown).

##### *Bombylius (Bombylius) major* Linnaeus, 1758

Drupiai, 09–16 07 2006, 2♀ (A.P.); Seredžius, 27 04 2002, 1♂ (leg. R. Kazlauskas); Vilnius, 24 05 1998, 1♂ (leg. V. Orlovas).

##### *Exoprosopa capucina* (Fabricius, 1781)

Jedlinavas, 25 07 1928, 1 spec. (also marked by M.O. with the label no. 1237), 19 07 1929 1♂ (no. 1342), 1 spec. (no. 1348), 1 spec. (no. 1349) (M.O.).

##### *Hemipenthes maura* (Linnaeus, 1758)

Jedlinavas, 19 07 1929, 1 spec. (no. 1341), 1 spec. (no. 1350) (M.O.).

##### *Phthiria pulicaria* (Mikan, 1796)

Puvočiai, 05 07 1995, 2♂, 1♀ (S.P.)

##### *Systoechus ctenopterus* (Mikan, 1796)

Jedlinavas, 15 07 1927, 1♂ (no. 665); 23 07 1928, 1♂ (no. 1220), 1♂ (no. 1223), 1♀ (no. 1225), 1♂ (no. 1228) (M.O.); Puvočiai, 05 07 1995, 1♂ (leg. V. Višinskas).

##### *Thyridanthrax fenestratus* (Fallén, 1814)

Jedlinavas, 19 07 1929, 1 spec. (no. 1345) (M.O.); Gaižiūnai, 12 06 1993, 1 spec. (leg. unknown).

#### CHLOROPIDAE

##### *Elachiptera tuberculifera* (Corti, 1909)

Markučiai, 17 04 2011, 2 spec. (A.P.).

## CONOPIDAE

***Conops (Conops) flavipes* Linnaeus, 1758**

Apskritis lake env., 24 07 2004, 1♂ (leg. A.P.).

***Conops (Conops) quadrifasciatus* De Geer, 1776**

Eišiškės, 08 07 2007, 1♂ (leg. A.Markina).

***Conops (Conops) vesicularis* Linnaeus, 1761**

Karajimiškis, 15 05 1995, 1♂ (leg. S.P.).

***Myopa buccata* (Linnaeus, 1758)**

Liepkalnis, 11 05 2011, 1 spec. (leg. A.P.).

***Phyocephala rufipes* (Fabricius, 1781)**

Seredžius, 19 08 2002, 1♂ (leg. R.Kazlauskas).

***Phyocephala vittata* (Fabricius, 1794)**

Puvočiai, 24 06 1995, 1♂ (leg. A.Riauba).

## DROSOPHILIDAE

**\**Scaptomyza (Hemiscaptomyza) unipunctum* (Zetterstedt, 1947)**

Markučiai, near Vilnelė river 17 04 2011, 2 spec. (leg. A.P.).

## EPHYDRIDAE

***Coenia curvicauda* (Meigen, 1830)**

Markučiai, 17 04 2011, 1 spec. (leg. A.P.).

## MUSCIDAE

***Muscina levida* (Harris, 1780)**

Jiesia river valley, 22 06 2003, 2♂ (leg. A.P.); Siesartis lake env., 18 04 2004, 1 ♀ (leg. A.P.).

***Muscina stabulans* (Fallén, 1817)**

Puvočiai, 11 07 2003, 1♀; Linkaičiai, 04 06 2004, 1♀ (all leg. A.P.).

## PLATYSTOMATIDAE

**\**Platystoma seminationis* (Fabricius, 1775)**

Tervydoniai, 21 06 2009, 1 spec.; Netoniai, 17 06 2010, 1 spec. (identified from the photos made by R.Ferenca).

## SPHAEROCERIDAE

**\**Crumomyia pedestris* (Meigen, 1830)**

Belmontas, 15 01 2011, 2♂, 1♀, on snow (A.P.).

## STRATIOMYIDAE

***Beris geniculata* Curtis, 1830**

Belmontas, 04 05 2008, 2♂; 16 05 2011, 1♂, 2♀ (A.P.).

***Microchrysa polita* (Linnaeus, 1758)**

Vilnius, 29 05 1922, 3♂, 2♀; 30 05 1922, 1♂, 1♀ (leg. unknown); Vilnius, 28 06 1927, 1♀ (no. 566); 17 06 1927, 1 spec. (no. 406); 14 06 1927, 1 spec. (no. 362); 15 06 1927, 1 spec. (no.372); 16 05 1928, 1♀ (no. 1160) (M.O.).

***Oplodontha viridula* (Fabricius, 1775)**

Trakai, 17 07 1927, 1♀ (leg. unknown); Jedlinavas, 25 07 1927, 1 spec., 1♀ (no. 759, 760) (M.O.); Grigiškės, 21 07 2003, 1♀ (leg. unknown).

***Oxycera fallenii* Stæger, 1844**

Puvočiai, 21 07 1983, 1♂ (leg. K. Balevičius).

***Sargus cuprarius* (Linnaeus, 1758)**

Vilnius, 04 08 1927, 1♀ (no. 876) (M.O.).

***Sargus iridatus* (Scopoli, 1763)**

Grigiškės, 21 07 2003, 1♀ (leg. unknown).

***Stratiomys potamida* Meigen, 1822**

Puvočiai, 29 06 1995, 1♂ (leg. S.Šireika); 02 07 1995, 1♀ (leg. R. Grigaliūn);

Skirgiškės, 03 07 2005, 1♀ (leg. T.Jakočiūnas).

***Stratiomys singularior* (Harris, 1776)**

Šakiai distr. 24 05 1983, 1♀ (leg. unknown).

## SYRPHIDAE

***Anasimyia lineata* (Fabricius, 1787)**

Puvočiai, 05 08 2011, 1♀ (leg. E.Šestelinska).

***Leucozona lucorum* (Linnaeus, 1758)**

Slišiškiai, 17 04 2008, 1♂ (leg. U.Staniūtė); Puvočiai, 20 07 2011, 1♂ (leg.

A.Vilkaitė); Puvočiai, 21 07 2011, 1♀ (leg. E.Stuknytė).

***Pipiza quadrimaculata* (Panzer, 1804)**

Rūdninkai giria f., 26 07 2003, 1♀ (A.P.).

## THEREVIDAE

***Acrosathe annulata* (Fabricius, 1805)**

Puvočiai, 1985 07 18, 1♂ (leg. Jarmalaitė).

***Thereva lanata* Zetterstedt, 1838**

Rūdninkai giria f., 26 07 2003, 1♀ (A.P.); Puvočiai, 30 07 1987, 1♀ (leg. unknown).

**Discussion**

*Scaptomyza unipunctum* is a Palaearctic and Nearctic species, but with a rather narrow distribution. Nearest records of this species are from Sweden, Finland and Northwest Russia (Bachli, 2011), so its presence in Lithuania is natural.

*Platystoma seminationis* is a more widespread species, found in many countries around Europe, nearest records being from Poland and Finland (Korneyev, 2011).

*Crumomyia pedestris* is one of the most interesting species because it is almost wingless and can be found wandering on snow during the warmer days of winter. This species also has a wide distribution throughout Palaearctic, nearest records being from Latvia (Kuznetzova, 1987), Poland and Northwest Russia (Rohacek, 2011).

All other 32 species of this report were already known for Lithuanian fauna, but were not studied equally. For example, records of Bombyliidae *Anthrax anthrax*, *Bombylius discolor*, *Exoprosopa capucina*, *Hemipenthes maura* and *Phthiria pulicaria* along the Conopidae *Conops quadrifasciatus*, *C. vesicularis*, *Myopa buccata* and *Physocephala vittata* were published only once by Pakalniškis & Podėnas (1992), those of *Systoechus ctenopterus* – by Zaitsev (1980) and *Thyridanthrax fenestratus* by Podėnas (1988). Only *Bombylius major* (Lešinskas & Pileckis, 1967; Eitminavičiūtė *et al.*, 1981), *Conops flavipes* and *Physocephala rufipes* (Pakalniškis & Podėnas, 1992; Podėnas & Pakalniškis, 1997) were known from several publications. Of course, number of citations doesn't imply any rarity category (e.g. *Conops quadrifasciatus*, *Myopa buccata*, *Muscina levida*, *M.stabulans* and *Anasimyia lineata* are common species in Lithuania almost everywhere in suitable biotopes), but rather the number of entomologists interested in Diptera or just the publishing effort.

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## **Nauji duomenys apie dvisparnių (Diptera) paplitimą Lietuvoje**

A. PETRAŠIŪNAS

### **Santrauka**

Pateikiami duomenys apie 3 naujas Lietuvos faunos dvisparnių rūšis: *Scaptomyza unipunctum* (Zetterstedt, 1947) (Drosophilidae), *Platystoma seminatione* (Fabricius, 1775) (Platystomatidae) ir *Crumomyia pedestris* (Meigen, 1830) (Sphaeroceridae), bei apie 32 mažiau tirtas rūšis. Daugelio rūšių radimo faktai publikuojami pirmą kartą, praėjus keliolikai metų nuo paskutinio paminėjimo mokslinėje spaudoje.

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