

TO THE KNOWLEDGE ON THE FLUTTER-WING FLIES IN LITHUANIA (DIPTERA: PALLOPTERIDAE)

ERIKAS LUTOVINOVAS

Lithuanian Entomological Society, Akademijos 2, LT-08412 Vilnius, Lithuania
E-mail: wohlfahrtia@gmail.com

Introduction

Species of this small family can be recognized by usually pale coloured bodies, infuscated crossveins of the wings and long sclerotized ovipositors in females. These flies possess a striking behavior, when vibrating of the wings during walking. There are two feeding types in their larvae, e.g. entomophagy, when developing under the bark of trees in tunnels of other insects, and combination of entomophagy with phytophagy, when feeding in stems or flowerheads of some grasses (Merz, 1998). The local Lithuanian fauna encountered four recorded species (Pakalniškis *et al.*, 2006); this number is expanded in the present publication.

Material and methods

Malaise traps were applied for collecting of the material in 2004 and 2008. Traps were checked every week, but some collecting dates are given grouped (first and last), in order to reflect the whole period of activity. The list of Lithuanian species was compiled from the checklist of Lithuanian flies (Pakalniškis *et al.*, 2006). The taxonomy of the family followed Merz & Shatalkin (2004) and Ozerov (2009). New species for the Lithuanian fauna are marked with an asterisk (*). The material is deposited in the private collection of the researcher (Vilnius).

List of localities

Lazdijai district	Meteliai, Meteliai Reg. P.	54°18'11"N, 23°44'38"E;
Plungė district	Godeliai, Žemaitija Nat. P.	55°58'59"N, 21°47'13"E;
	Pamedinčiai	56°01'26"N, 21°46'59"E;
Švenčionys district	Padumblė, Labanoras Reg. P.	55°14'40"N, 25°47'10"E;
Tauragė district	Eičiai, Viešvilė Nat. R.	55°09'50"N, 22°28'59"E;
Varėna district	Subartonys, Dzūkija Nat. P.	54°12'11"N, 24°10'52"E;
Vilnius city	Markučiai, Pavilniai Reg. P.	54°40'26"N, 25°19'37"E.

Species list

PALLOPTERIDAE

Palloptera umbellatarum (Fabricius, 1775)

Markučiai, 06–12 07 2004, 2♀ (leg. E. Lutovinovas).

European species, larvae developing in flowerheads of some Asteraceae (Merz, 1998).

****Palloptera ustulata* Fallén, 1820**

Meteliai, 09–23 07 2008, 1♀ (leg. I. Kondratavičiūtė).

European species, larvae developing under the bark of some trees (Merz, 1998).

***Temnosira saltuum* (Linnaeus, 1758)**

Eičiai, 16–23 06 2008, 1♀ (leg. V. Uselis), Markučiai, 01 07 2004, 1♀ (leg. E. Lutovinovas), Padumblė 09 06–10 08 2008, 1♂8♀ (leg. A. Aliukonis); Subartonys, 02 06–22 07 2008, 7♂8♀ (leg. M. Lapelė).

Palaeartic species, larvae developing in stems of some Apiaceae (Merz, 1998).

***Toxoneura modesta* (Meigen, 1830)**

Godeliai, 30 06–15 09 2008, 1♂32♀ (leg. S. Kvašinskas); Pamedinčiai, 07–14 07 2008, 3♀ (leg. S. Kvašinskas); Subartonys, 09–16 06 2008, 1♀ (leg. M. Lapelė).

European species, larvae developing under the bark of some trees (Merz, 1998).

****Toxoneura quinque maculata* (Macquart, 1835)**

Eičiai, 02–16 06 2008, 2♀ (leg. V. Uselis); Markučiai, 14 06 2004, 1♀ (leg. E. Lutovinovas).

Palaeartic species, larvae developing in stems of some Poaceae (Merz, 1998).

***Toxoneura trimacula* (Meigen, 1826)**

Subartonys, 21 07–04 08 2008, 1♂1♀ (leg. M. Lapelė).

European species, larvae developing in stems of some Apiaceae (Merz, 1998).

****Toxoneura usta* (Meigen 1826)**

Godeliai, 25 08–01 09 2008, 1♂; Pamedinčiai, 15–29 09 2008, 1♀ (both leg. S. Kvašinskas).

European species, larvae developing under the bark of some trees (Merz, 1998).

Discussion

New data about seven species of the flutter-wing flies from Lithuania is provided that represent all species of this small family recorded from the area so far. *Temnosira saltuum* seems to be the most constant in the area, being observed in most of localities. Three species are new records for the local fauna – *Paloptera ustulata*, *Toxoneura quinque maculata* and *T. usta* (Pakalniškis *et al.*, 2006). About five more species are suspected as living in Lithuania.

Acknowledgements

I am indebted A. Aliukonis (Padumblė), I. Kondratavičiūtė (Meteliai), S. Kvašinskas (Plungė), M. Lapelė (Merkinė) and V. Uselis (Eičiai), for assistance in the field work.

References

- Merz B. 1998. Family Pallopteridae. In Papp L., Darvas B. (eds.). *Contributions to a Manual of Palaeartic Diptera (with special reference to flies of economic importance)* 3: 201–210. Science Herald, Budapest.
- Merz B., Shatalkin A.I. 2004. Fauna Europaea: Pallopteridae. In Pape T., Beuk P. (eds.).

- Fauna Europaea: Diptera Brachycera. Fauna Europaea* version 1.0, <http://www.faunaeur.org> (Accessed 17 October, 2013).
- Ozerov A.L. 2009. Review of the family Pallopteridae (Diptera) of the fauna of Russia. *Russian Entomological Journal* 18 (2): 129–146 (in Russian).
- Pakalniškis S., Bernotienė R., Lutovinovas E., Petrašiūnas A., Podėnas S., Rimšaitė J., Sæther O.A., Spungis V. 2006. Checklist of Lithuanian Diptera. *New and Rare for the Lithuania Insect Species* 18: 16–154.

Plazdasparnėms musėms Lietuvoje pažinti (Diptera: Pallopteridae)

E. LUTOVINOVAS

Santrauka

Pateikiami duomenys apie visas septynias iki šiol stebėtas plazdasparnių musių šeimos rūšis Lietuvoje. *Temnosira saltuum* pasitaikė tolygiausiai, kadangi buvo stebėta daugiausiai radviečių. Trys rūšys pirmą kartą paminėtos vietos faunoje – *Palloptera ustulata*, *Toxoneura quinque maculata* ir *T. usta*. Dar apytiksliai penkios šios šeimos rūšys yra ieškotinos Lietuvoje.

Received: 18 October, 2013