

New country and host records for Lithuanian Tachinidae (Diptera)

Erikas Lutovinovas

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This paper updates the knowledge on the family Tachinidae (Diptera) in the Lithuanian fauna. As the result, 68 species are first records from the country and eight species are deleted from the previous list. Among species listed in this paper, 54 represent first records for the Baltic States and 16 are new for all of Eastern Europe. Parasitoid-host associations for 13 species of Tachinidae with 15 host taxa that comprise 17 couples are recorded for Lithuania for the first time. Among these, *Meigenia uncinatata* is a new parasitoid of the leaf beetle *Gonioctena quinquepunctata* (Chrysomelidae).

E. Lutovinovas, Department of Botany and Zoology, Masaryk University, Kotlářská 2, CZ-611 37 Brno, Czech Republic; E-mail: wohlfahrtia@gmail.com

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1. Introduction

Tachinid flies are a worldwide distributed family of two-winged insects, related to botflies, blowflies and several other families having a negative reputation from the medical and veterinary point of view. Their representatives are rather diverse in body size and coloration, from black and tiny, rarely seen, to bright and large, easily spotted in the field. It is one of the largest families in the order, being more prevalent in natural habitats, whereas poorly observed in the areas affected by human activities. The latter fact may have important implications for their utilisation as bio-indicators of well-preserved habitats (Tooker *et al.* 2006). All species are parasitoids of terrestrial arthropods, including many orders of insects, centipedes, arachnids, and therefore regarded beneficial when developing in pests of agriculture and forestry (Tschorsnig *et al.* 2005).

The family has been insufficiently studied in Lithuania. The aim of the present paper is to provide a deeper knowledge on the tachinid fauna

and to make our knowledge of the parasitoid-host associations of this group within the study area more complete.

2. Material and methods

Most of the material was collected in 2008, but older records have also been included. The material is chiefly deposited in the private collection of the author. Specimens were either directly sampled in the field or collected with their hosts and then reared in the laboratory. Hosts were either collected from their food-plants as immature stages (moths, sawflies), or from *Symmorphus allobrogus* (Saussure) predatory wasp nests (beetles); for methods of the collecting of wasp prey from the wasps' nests see Budrienė (2003).

Morphological identification of flies was possible using a combination of sources (Tschorsnig & Herting 1994, Andersen 1996, Ziegler & Shima 1996, Ziegler 1999, Bystrowski 2001, Bergström 2007). Host species were identified by the

collectors of the material. Identification of beetle larvae, as well as complicated females of the *Meigenia mutabilis* (Fallén) group were additionally checked by a molecular method: portions of mitochondrial rDNA obtained from the exuviae were compared with sequences from the Gene Bank, or with sequences obtained from reliably identified specimens. Nuclear acids extraction and amplification technique followed Lutovinovas *et al.* (submitted).

The results are presented in several parts. The following list of new records provides faunistic records, host records and corrections of the previous list (Pakalniškis *et al.* 2006). All faunistic records are new for Lithuania, partly new for the territory of the Baltic States or for the whole Eastern Europe. Full names for the localities are shown; their coordinates and collectors are provided separately (Table 1).

3. Results

3.1. Faunistic records

Records are marked with an asterisk (*) if new for the territory of the Baltic States, with two asterisks (**) if new for the whole Eastern Europe (former USSR). Sampling methods and their abbreviations are as follows: Malaise trap (M), yellow sticky card (Y), hand net (N), pit-fall trap (P), attracted by light (L), or collected with a host (H).

3.1.1. Subfamily Dexiinae

- **Athrycia impressa* (van der Wulp, 1869). Eičiai, 26.V.–30.VI.2008, 7♂♂, M.
Billaea kolomyetzi Mesnil, 1970. Leipgiriai, 30.VI.–09.VII.1999, 1♂, M.
 ***Billaea steini* (Brauer & Bergenstamm, 1890). Leipgiriai, 01.–05.VIII.2008, 1♀, M.
Campylocheta inepta (Meigen, 1824). Dūkštos, 24.VI.–01.VII.2007, 1♂, M; Eičiai, 15.–21.VII.2008, 1♀, M; Subartonys, 07.–29.VII.2008, 3♀♀, M.
 **Campylocheta mariae* Bystrowski, 2001. Padumblė, 31.III.–05.V.2008, 4♂♂, 1♀, M.
 ***Campylocheta similis* Ziegler & Shima, 1996. Paneriai, 16.IV.2004, 1♀, N.
 **Cyrtophleba vernalis* (Kramer, 1917). Zervynos, 02.–13.V.2010, 1♂, Y.

- **Eriothrix prolixa* (Meigen, 1824). Semeliškės, 17.VII.2007, 1♂, N.
 **Hyleorus elatus* (Meigen, 1838). Eičiai, 15.–21.VII.2008, 1♂, M.
Klugia marginata (Meigen, 1824). Obelija, 28.VI.1980, 1♀, N.
 **Ramonda spathulata* (Fallén, 1820). Pamedinčiai, 12.V.–16.VI.2008, 2♂♂, M.
 **Rondania fasciata* (Macquart, 1834). Zervynos, 13.V.–01.VI.2010, 1♂, Y.
 **Trixa caerulea* Meigen, 1824. Pamedinčiai, 19.–26.V.2008, 1♀, M.
Wagneria alpina Villeneuve, 1910. Godeliai, 14.–21.VII.2008, 1♂, M; Pamedinčiai, 07.–14.VII.2008, 1♂, M.
Wagneria costata (Fallén, 1815). Leipgiriai, 08.–15.VII.2008, 1♀, M; Padumblė, 30.VI.–07.VII.2008, 1♀, M.

3.1.2. Subfamily Phasiinae

- **Catharosia pygmaea* (Fallén, 1815). Godeliai, 19.V.–18.VIII.2008, 3♂♂, 1♀, M.
 **Cinochira atra* Zetterstedt, 1845. Godeliai, 07.–14.VII.2008, 2♂♂, 1♀, M; Pamedinčiai, 23.–30.VI.2008, 1♂, M; Subartonys, 16.–23.VI.2008, 1♀, M.
 **Cylindromyia brevicornis* (Loew, 1844). Puvočiai, 30.VI.1995, 1♀, N.
 **Gymnosoma dolycoridis* Dupuis, 1961. Balbieriškis, 17.VIII.2006, 1♂, N; Jūrė, 09.VII.1998, 1♂, N.
 **Redtenbacheria insignis* Egger, 1861. Verkiai, 04.VII.2005, 1♀, L.

3.1.3. Subfamily Tachininae

- **Aphantorhaphopsis samarensis* (Villeneuve, 1921). Leipgiriai, 27.V.–30.VI.2008, 5♂♂, M; Subartonys, 02.VI.–28.VII.2008, 3♂♂, 8♀♀, M.
 **Aphantorhaphopsis verralli* (Wainwright, 1928). Padumblė, 21.–28.VII.2008, 2♂♂, M.
 **Ceranthia lichtwardtiana* (Villeneuve, 1931). Eičiai, 26.V.–12.VIII.2008, 2♂♂, 6♀♀, M; Godeliai, 19.V.–18.VIII.2008, 4♀♀, M; Leipgiriai, 27.V.–02.VI.2008, 2♀♀, M; Markučiai, 02.–09.VIII.2004, 1♂, M; Pamedinčiai, 19.V.–04.VIII.2008, 4♂♂, 8♀♀, M; Subartonys, 22.VII.–08.IX.2008, 12♂♂, 4♀♀, M.

Table 1. Sampling locations with collectors of Tachinidae in Lithuania.

No	Locality	Administrative unit	Coordinate	Collector
1	Airėnai	Vilnius distr.	54°51 00"N 24°57 00"E	Lutovinovas, E.
2	Aukštadvaris	Trakai distr.	54°34 50"N 24°31 40"E	Lutovinovas, E.
3	Balbieriškis	Prienai distr.	54°30 50"N 23°53 30"E	Lutovinovas, E.
4	Bilšiai	Molėtai distr.	55°07 59"N 25°16 16"E	Budrys, E.
5	Čižiūnai	Trakai distr.	54°35 40"N 24°34 00"E	Lutovinovas, E.
6	Druskininkai	Druskininkai munic.	54°01 10"N 23°58 20"E	Gedminas, A.
7	Dūkštos	Vilnius distr.	54°49 20"N 24°58 10"E	Lutovinovas, E.
8	Eičiai	Tauragė distr.	55°10 50"N 22°29 00"E	Uselis, V.
9	Eitminiškės	Vilnius distr.	54°55 20"N 25°23 20"E	Ivinskis, P.
10	Godeliai	Plungė distr.	55°58 59"N 21°47 13"E	Kvašinskas, S.
11	Griškabūdis	Šakiai distr.	54°51 10"N 23°10 00"E	Karalius, V.
12	Gruodžiai	Molėtai distr.	55°16 10"N 25°16 00"E	Lutovinovas, E.
13	Jūrė	Kazlų Rūda munic.	54°45 30"N 23°35 40"E	Meržijevskis, A.
14	Karkazai	Šakiai distr.	55°04 37"N 23°12 00"E	Rimšaitė, J.
15	Kleboniškis	Kaunas munic.	54°57 10"N 23°56 50"E	Dumčius, O.
16	Lavysas	Varėna distr.	54°09 50"N 24°25 59"E	Gedminas, A.
17	Leipgiriai	Jurbarkas distr.	55°06 19"N 22°27 16"E	Uselis, V.
18	Lekėčiai	Šakiai distr.	54°59 00"N 23°30 00"E	Ferenca, R.
19	Liškiava	Varėna distr.	54°04 50"N 24°03 20"E	Nedveckytė, I.
20	Marimantas	Zarasai distr.	55°49 19"N 25°54 25"E	Ivinskis, P.
21	Markučiai	Vilnius munic.	54°40'21"N 25°18'58"E	Lutovinovas, E.
22	Meteliai	Lazdijai distr.	54°18 10"N 23°44 40"E	Kondratavičiūtė
23	Mištautai	Zarasai distr.	55°39 47"N 26°35 49"E	Ivinskis, P.
24	Nida	Neringa munic.	55°18 10"N 21°00 20"E	Gedminas, A.
25	Noreikiškės	Kaunas distr.	54°53 10"N 23°50 50"E	Dumčius, O.
26	Noruliai	Varėna distr.	54°06 40"N 24°12 20"E	Ivinskis, P.
27	Obelija	Alytus distr.	54°18 29"N 23°51 40"E	Švogžlys, P.
28	Padumbėlė	Švenčionys distr.	55°14 40"N 25°47 10"E	Aliukonis, A.
29	Palkabalis	Varėna distr.	54°08 31"N 24°36 40"E	Gedminas, A.
30	Pamedinčiai	Plungė distr.	56°01 26"N 21°46 59"E	Kvašinskas, S.
31	Paneriai	Vilnius munic.	54°38'27"N 25°12'39"E	Lutovinovas, E.
32	Purviniškiai	Švenčionys distr.	55°01 59"N 25°35 17"E	Ivinskis, P.
33	Puvočiai	Varėna distr.	54°06 46"N 24°18 18"E	Ilginytė, R.
34	Sakalinė	Tauragė distr.	55°11 10"N 22°22 41"E	Uselis, V.
35	Semeliškės	Elektrėnai munic.	54°40 10"N 24°39 20"E	Lutovinovas, E.
36	Subartonyš	Varėna distr.	54°12 15"N 24°10 45"E	Lapelė, V.
37	Šeškinė	Vilnius munic.	54°42 36"N 25°14 38"E	Lutovinovas, E.
38	Vartai	Lazdijai distr.	54°24 00"N 23°29 40"E	Lutovinovas, E.
39	Vebliai	Švenčionys distr.	54°53 49"N 25°49 34"E	Dapkus, D.
40	Veisiejai	Lazdijai distr.	54°06 00"N 23°41 40"E	Dumčius, O.
41	Verkiai	Vilnius munic.	54°46'60"N 25°21'0"E	Ivinskis, P.
42	Visoriai	Vilnius munic.	54°45'19"N 25°15'55"E	Lutovinovas, E.
43	Vyšniūnai	Prienai distr.	54°32 20"N 24°19 40"E	Lutovinovas, E.
44	Zervynos	Varėna distr.	54°06 40"N 24°29 49"E	Gedminas, A.
45	Žaizdriai	Trakai distr.	54°37 40"N 24°53 40"E	Lutovinovas, E.
46	Žaliakalnis	Kaunas munic.	54°54 30"N 23°55 30"E	Paulavičiūtė, B.
47	Želsva	Marijampolė munic.	54°25 50"N 23°24 10"E	Lutovinovas, E.
48	Želtiškieiai	Anykščiai distr.	55°24 00"N 25°15 11"E	Budrys, E.

- **Ceranthia pallida* Herting, 1959. Subartonys, 21.–28.VII.2008, 2♂♂, M.
- **Ceranthia tenuipalpis* (Villeneuve, 1921). Dūkštos, 20.–27.V.2007, 1♂, M; Eičiai, 12.–19.V.2008, 1♂, M; Subartonys, 12.V.–23.VI.2008, 1♂, 1♀, M.
- Ceromya bicolor* (Meigen, 1822). Common form: Eičiai, 08.–14.VII.2008, 1♂, M; Leipgiriai, 27.V.–02.VI.2008, 1♂, M. Melanistic form: Eičiai, 01.–05.VIII.2008, 1♀, M; Padumblė, 21.VII.–10.VIII.2008, 2♂♂, M.
Note. Melanistic form was previously known only from a type material of *C. fasciata* (Stein) that was synonymised with *C. bicolor* (Meigen) by Herting (1977). Andersen (1996) has recorded the end of activity of this species before the end of July; melanistic form flies after that in Lithuania (see above).
- ***Ceromya dorsigera* Herting, 1967. Eičiai, 01.–05.VIII.2008, 1♀, M; Padumblė, 07.VII.–10.VIII.2008, 4♂♂, M; Subartonys, 07.–14.VII.2008, 2♂♂, M.
- **Ceromya flaviceps* (Ratzeburg, 1844). Lavysas, 13.V.–01.VI.2010, 2♂♂, Y; Palkabalis, 13.V.–01.VI.2010, 2♂♂, Y; Zervynos, 13.V.–01.VI.2010, 2♂♂, Y.
- **Chrysosomopsis aurata* (Fallén, 1810). Leipgiriai, 15.–22.VII.2008, 1♂, M; Subartonys, 22.–29.VII.2008, 1♀, M.
- ***Entomophaga sufferta* (Villeneuve, 1942). Airėnai, 13.–27.V.2007, 3♂♂, M; Dūkštos, 20.V.–03.VI.2007, 5♂♂, M; Pamedinčiai, 05.–19.V.2008, 4♂♂, M; Subartonys, 21.–28.IV.2008, 1♂, M.
- Eurithia vivida* (Zetterstedt, 1838). Sakalinė, 09.VI.2000, 1♀, N.
- ***Gonicocera schistacea* Brauer & Bergenstamm, 1891. Godeliai, 28.IV.–12.V.2008, 2♀♀, M; Želtiški, 25.IV.2010, 1♂, N.
- ***Loewia erecta* Bergström, 2007. Dūkštos, 01.–08.VII.2007, 1♀, M.
- **Macquartia pubiceps* (Zetterstedt, 1845). Eičiai, 15.VII.–30.IX.2008, 4♂♂, 5♀♀, M; Subartonys, 05.V.–25.VIII.2008, 3♂♂, 3♀♀, M.
- ***Peribaea longirostris* Andersen, 1996. Airėnai, 09.–16.IX.2007, 1♀, M; Eičiai, 09.VI.–08.IX.2008, 159♂♂, 81♀♀, M; Leipgiriai, 27.V.–19.VIII.2008, 24♂♂, 14♀♀, M; Meteliai, 30.VII.–06.VIII.2008, 1♂, M; Padumblė, 23.VI.–30.VIII.2008, 42♂♂, 4♀♀, M; Subartonys, 02.VI.–08.IX.2008, 98♂♂, 18♀♀, M; Vartai, 18.VIII.2006, 1♂, N.
- **Phytomyptera cingulata* (Robineau-Desvoidy, 1830). Godeliai, 14.VII.–25.VIII.2008, 4♀♀, M; Karkazai, 28.VII.1999, 1♂, H; Pamedinčiai, 07.–14.VII.2008, 1♀, M.
- **Phytomyptera nigrina* (Meigen, 1924). Godeliai, 14.–21.VII.2008, 1♀, M; Subartonys, 04.–11.VIII.2008, 1♂, M.
- ***Siphona grandistylum* Pandellé, 1894. Eičiai, 26.V.–02.VI.2008, 1♂, M; Godeliai, 19.V.–14.VII.2008, 2♂♂, 1♀, M; Pamedinčiai, 12.V.–09.VI.2008, 5♂♂, 4♀♀, M.
- **Siphona hokkaidensis* Mesnil, 1957. Leipgiriai, 17.VI.–19.VIII.2008, 6♂♂, 1♀, M.
- ***Siphona ingerae* Andersen, 1982. Eičiai, 14.IV.–12.V.2008, 3♂♂, 1♀, M; Godeliai, 29.III.–07.IV.2008, 2♂♂, M; Leipgiriai, 21.–30.IV.2008, 1♂, M; Kleboniškis, 23.V.2006, 1♂, N; Lekėčiai, 12.–18.IV.1998, 1♀, N; Meteliai, 02.–09.IV.2008, 1♂, M; Padumblė, 31.III.–14.IV.2008, 6♂♂, M; Pamedinčiai, 28.III.–05.V.2008, 4♂♂, 4♀♀, M; Subartonys, 31.III.–05.V.2008, 8♂♂, 12♀♀, M.
- **Siphona paludosa* Mesnil, 1960. 2008, 2♀♀, M (data lost).
- Solieria inanis* (Fallén, 1810). Dūkštos, 29.VII.2006, 1♀, N; Godeliai, 21.VII.–04.VIII.2008, 1♀, M; Leipgiriai, 15.–22.VII.2008, 1♀, M.

3.1.4. Subfamily Exoristinae

- **Admontia grandicornis* (Zetterstedt, 1849). Meteliai, 18.–25.VI.2008, 1♀, M; Pamedinčiai, 30.VI.–08.VII.2008, 1♀, M.
- **Atylomya loewi* Brauer, 1898. Gruodžiai, 09.VII.2002, 1♂, N; 14.VII.2009, 1♂, N; Padumblė, 02.–09.VI.2008, 1♂, M.
- **Blepharipa schineri* (Mesnil, 1939). Markučiai, 27.V.2005, 1♀, N; 10.V.2006, 2♂♂, N.
- Blondelia inclusa* (Hartig, 1838). Eičiai, 05.VIII.–08.IX.2008, 2♂♂, 1♀, M.
- **Bothria frontosa* (Meigen, 1824). Padumblė, 31.III.–07.IV.2008, 1♂, M.
- **Cadurciella tritaeniata* (Rondani, 1859). Leipgiriai, 15.–22.VII.2008, 1♀, M.
- ***Carcelia puberula* Mesnil, 1941. Sakalinė,

- 16.V.2000, 1♂, N; Želsva, 20.–27.V.2007, 1♀, M.
- ***Chetogena tshorsnigi* Ziegler, 1999. Vebliai, 15.IV.–13.V.1999, 1♀, P.
- **Exorista fasciata* (Fallén, 1820). Sakalinė, 10.VI.1999, 1♀, N.
- **Gastrolepta anthracina* Rondani, 1862. Subartonyš, 09.–16.VI.2008, 1♀, M.
- **Ligeriella aristata* (Villeneuve, 1911). Eičiai, 19.–26.VIII.2008, 1♂, M.
- Medina luctuosa* (Meigen, 1824). Želsva, 23.VII.2007, 1♀, N.
- **Medina melania* (Meigen, 1824). Airėnai, 24.VI.–15.VII.2007, 1♂, 1♀, M; Čižiūnai, 22.VII.2007, 1♂, N; Noreikiškės, 28.V.1999, 1♂, N; Puvočiai, 02.VII.1985, 1♀, N; Subartonyš, 26.V.–28.VII.2008, 1♂, 1♀, M; Vartai, 08.–15.VII.2007, 1♀, M; Visoriai, 19.VII.2006, 3♂♂, N; Žaizdriai, 14.VII.2007, 1♀, N.
- Meigenia mutabilis* (Fallén, 1810). Airėnai, 22.VII.–19.VIII.2007, 2♂♂, 2♀♀, M; Aukštadvaris, 17.–19.VII.2007, 1♂, 1♀, N; Čižiūnai, 22.VII.2007, 1♂, N; Dūkštos, 29.VII.2006, 1♂, N; Eičiai, 30.VI.–03.IX.2008, 2♂♂, 2♀♀, M; Godeliai, 14.VII.–15.IX.2008, 33♂♂, 4♀♀, M; Gruodžiai, 09.VII.2002, 1♂, N; 09.VII.2006, 1♂, N; Kleboniškis, 21.VII.1999, 1♂, N; Markučiai, 22.VIII.2004, 1♂, N; Meteliai, 09.–23.VII.2008, 1♂, M; Padumblė, 04.–10.VIII.2008, 1♀, M; Pamedinčiai, 23.VI.–18.VIII.2008, 1♂, 7♀♀, M; Šeškinė, 11.VIII.2004, 1♀, N; Vartai, 05.–19.VIII.2007, 4♂♂, 1♀, M; Veisiejai, 28.VII.–01.VIII.2003, 1♂, N; Visoriai, 17.VII.–09.VIII.2006, 6♂♂, N; Vyšniūnai, 19.VII.2007, 1♂, N.
- **Oswaldia eggeri* (Brauer & Bergenstamm, 1889). Subartonyš, 22.–29.VII.2008, 2♀♀, M.
- ***Oswaldia reducta* (Villeneuve, 1930). Subartonyš, 14.VII.–11.VIII.2008, 2♂♂, M.
- Paratryphera bisetosa* (Brauer & Bergenstamm, 1891). Eičiai, 14.VI.2007, 1♀, N.
- ***Phebellia pauciseta* (Villeneuve, 1908). Markučiai, 17.VI.2006, 1♂, N.
- **Phebellia villica* (Zetterstedt, 1838). Airėnai, 01.–08.VII.2007, 1♀, M.
- ***Phryxe erythrostoma* (Hartig, 1838). Padumblė, 23.–30.VI.2008, 1♀, M.
- **Phryxe magnicornis* (Zetterstedt, 1838). Eičiai, 15.–29.VII.2008, 1♂, 1♀, M.
- **Ptesiomyia alacris* (Meigen, 1824). Padumblė, 09.–16.VI.2008, 1♂, 1♀, M.
- ***Senometopia intermedia* (Herting, 1960). Želsva, 08.–15.VII.2007, 1♀, M.
- ***Senometopia lena* (Richter, 1980). Subartonyš, 23.–30.VI.2008, 1♂, M.
- Winthemia erythrura* (Meigen, 1838). Visoriai, 19.VII.2006, 2♂♂, N.
- Winthemia venusta* (Meigen, 1924). Žaizdriai, 17.VII.2007, 1♂, N.

3.2. Host records

3.2.1. Subfamily Dexiinae

- Blepharomyia angustifrons* Herting, 1971. Noruliai, 11.–24.IV.2002, 2♂♂, 1♀, from *Panolis flammea* (Denis & Schiffermüller) (Lep., Noctuidae).
- Thelaira solivaga* (Harris, 1780). Žaliakalnis, 22.III.2006, 1♂, 1♀, from *Phragmatobia fuliginosa* (Linnaeus) (Lep., Arctiidae).

3.2.2. Subfamily Tachininae

- Leskia aurea* (Fallén, 1820). Griškabūdis, 29.V.–10.VI.1988, 1♂, from *Synanthedon scoliaeformis* (Borkhausen) (Lep., Sesiidae).
- **Phytomyptera cingulata* (Robineau-Desvoidy, 1830). Karkazai, 28.VII.1999, 1♂, from *Nemopogon granella* (Linnaeus) (Lep., Tineidae).

3.2.3. Subfamily Exoristinae

- Aplomya confinis* (Fallén, 1820). Marimantas, 02.–22.VI.2004, 1♂, from *Satyrium w-album* (Knoch) (Lep., Lycaenidae).
- Compsilura concinnata* (Meigen, 1824). Nida, 23.VII.1995, 1♂, 1♀, from *Lymantria dispar* (Linnaeus) (Lep., Lymantriidae); Purviniškiai, 27.IX.2007, 1♂, 1♀, from unidentified Noctuidae (Lep.); Visoriai, 13.VII.2006, 1♀, from *Polygonia c-album* (Linnaeus) (Lep., Nymphalidae).
- Drino inconspicua* (Meigen, 1830). Lavysas, 15.–19.IV.2010, 3♂♂, 3♀♀, from *Dendrolimus pini* (Linnaeus) (Lep., Lasiocampidae); Nida, 23.VII.1995, 1♂, 2♀♀, from *Dendrolimus pini*

- (Linnaeus) (ditto); Liškiava, 08.–12.IX.2009, 2♂♂, 3♀♀, from *Diprion pini* (Linnaeus) and *D. similis* (Hartig) (Hym., Diprionidae).
- Huebneria affinis* (Fallén, 1810). Eitminiškės, 05.–16.XI.2007, 3♀♀, from *Phragmatobia fuliginosa* (Linnaeus) (Lep., Arctiidae).
- Meigenia dorsalis* (Meigen, 1824). Želtiškiiai, 01.–12.VI.2002, 1♀, from *Plagiosterna aenea* (Linnaeus) (Col., Chrysomelidae).
- Meigenia uncinata* Mesnil, 1967. Bilšiai, 14.–19.VI.2003, 1♂, 2♀♀, from *Gonioctena quinquepunctata* (Fabricius) (Col., Chrysomelidae).
- Nilea rufiscutellaris* (Zetterstedt, 1859). Mištautai, 20.IX.–01.X.2006, 1♂, 4♀♀, from *Acronicta rumicis* (Linnaeus) (Lep., Noctuidae).
- Pales pavida* (Meigen, 1824). Druskininkai, 24.VI.1996, 1♂, from *Panolis flammea* (Denis & Schiffermüller) (Lep., Noctuidae).
- Phryxe nemea* (Meigen, 1824). Markučiai, 17.–27.VI.2006, 1♂, from *Erannis defoliaria* (Clerck) (Lep., Geometridae).

3.3. Deleted records

3.3.1. Subfamily Phasiinae

- Gymnosoma costatum*: Dumčius & Pakalniškis (2006). Turned out to be *Gymnosoma nitens* Meigen, already recorded before.

3.3.2. Subfamily Tachininae

- Germaria angustata*: Pakalniškis & Podėnas (1992). Turned out to be *Triarthria setipennis* (Fallén), already recorded before.
- Loewia phaeoptera*: Lutovinovas (2009). Turned out to be the newly described *Loewia erecta* Bergström (see above).
- Phytomyptera bohémica*: Rimšaitė & Pakalniškis (2001). Turned out to be *Phytomyptera cingulate* (Robineau–Desvoidy) (see above).
- Siphona rossica*: Pakalniškis & Podėnas (1992). Turned out to be *Siphona setosa* Mesnil, already recorded before.
- Siphona variata*: Lutovinovas (2009). Turned out to be *Siphona confusa* Mesnil, already recorded before.

3.3.3. Subfamily Exoristinae

- Chetogena fasciata*: Lutovinovas (2007). Turned out to be the newly described *Chetogena tschorsnigi* Ziegler (see above).
- Meigenia mutabilis*: Lutovinovas et al. (2003). Turned out to be *Meigenia uncinata* Mesnil (see above).
- Tlephusa cincinna*: Lutovinovas (2006). Turned out to be *Phryxe vulgaris* (Fallén), already recorded before.

4. Discussion

According to the present revision of the old records, eight species were excluded from the previous species list (Pakalniškis *et al.* 2006). The true identity of some of them (*Chetogena fasciata*, *Loewia phaeoptera*) was clarified after recent discoveries of new species by Ziegler (1999) and Bergström (2007). Some other changes are due to wrong identifications of insects that were corrected after revision of the material.

Out of the species confirmed to occur in Lithuania, 68 species are reported for the first time, which increases the number of species recorded from the area to 276 (Lutovinovas *et al.* 2003, Lutovinovas 2004, 2006, 2007, 2009, 2010). The primary reason for the high number of new faunistic records from the country during the few recent years is the relatively low intensity of research in the past and the intensive exploration of the regional fauna at present, in particular by means of Malaise traps that are known as the most productive method for collecting the majority of these species (Tschorsnig *et al.* 2005).

Recent updates to the records of various European countries indicate that many species are expanding their distributional ranges because of the climate change (Bygebjerg 2004, Pohjoismäki 2007, Zeegers 2010). This phenomenon cannot be easily discussed in the East, because the fauna of the Baltic States is insufficiently studied (Tschorsnig *et al.* 2011). For comparison, the known distribution of several species listed in this paper reaches the Netherlands and Germany in the North, without records in Eastern Europe (*Peribaea longirostris*, *Senometopia lena*, etc.), so neither their occurrence in Lithuania was

straightforwardly expected nor it claims that these species are expanding their distributional ranges. Some other species are reported exclusively from Central Europe and Finland (*Campylocheta mariae*, *Oswaldia reducta*, etc.). In these cases, it was more plausible to expect that these species could occur also in Lithuania. For better understanding of the novelty of my records, it should be noted that 54 species represent first records for the Baltic States as well, whereas 16 are new for Eastern Europe as a whole (former USSR).

Parasitoid-host associations of 13 Tachinidae species with 15 host taxa that comprise 17 couples are recorded for Lithuania for the first time. Among these, *Meigenia uncinata* is a new parasitoid of the leaf beetle *Gonioctena quinquepunctata* (Chrysomelidae). Up to now, *M. uncinata* had been considered a specialized parasitoid of *Agelastica alni*, with its biology described by Mellini (1954).

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