

Some new records of Diptera species from Sarnena Gora Mts

LIBOR DVOŘÁK*, ULRICH SCHNEPPAT**, DILIAN GEORGIEV***,
KATEŘINA DVOŘÁKOVÁ*

**Tri Sekery 21, CZ-353 01 Mariánské Lázně; e-mails: lib.dvorak@seznam.cz,
k.marsova@seznam.cz*

***Churwalden-Malix, CH-7074, Sennereiweg 8, Switzerland*

****Plovdiv University "Paisii Hilendarski", 24 Tzar Assen Str., 4000 Plovdiv, Bulgaria,
diliangeorgiev@gmail.com*

Abstract. Altogether 12 species from six Diptera families are presented in this paper. The species *Lipoptena fortisetosa* Maa, 1965 and *Euthera fascipennis* (Loew, 1854) are new records to Bulgaria.

Key words: Diptera, Balkans, distribution.

Introduction

These are the results of collecting of some Diptera by D. Georgiev during the period 2016-2020, and later identified by Libor Dvořák, Kateřina Dvořáková and Ulrich Schnepapat. Some species were new records to the area of Sarnena Gora Mts, and two – new to Bulgaria.

Material and Methods

The specimens were collected using entomological net, bait traps (beer) or by hand by D. Georgiev. They were stored in ethanol and send to Libor Dvořák, Kateřina Dvořáková and Ulrich Schnepapat for identification, several specimens were determined by D. Georgiev. If not stated otherwise, the specimens were identified by L. Dvořák.

Results

HELEOMYZIDAE

Suillia affinis (Macquart, 1834)

Sarnena Gora Mts, S of Kolena vill., Medven hill, broadleaf forest, 215 m, 42°27'23.6" N, 25°44'00.6" E, 23.-25.5.2017, DG, 3 M, 6 F, K. Dvořáková det.

Remarks: Common species known from almost the whole Europe (Wožnica 2013), the most often *Suillia* species captured by bait traps (Dvořáková 2008).

HIPPOBOSCIDAE

Lipoptena fortisetosa Maa, 1965

Sarnena Gora Mts, north of Kolena village, valley of Kolenska River, mixed broad leaf forest, from the arm of the collector, 306 m, 42°29'33.83"N 25°43'6.84"E, 31.08.2016, 1 F,

DIPTERA

very freshly hatched (exo-skeleton only pale yellowish white and still soft, both wings fully perfect), Dilian Georgiev leg., 31.08.2016, Ulrich E. Schneppat-BNM det.; *Additional record*: Stara Planina Mts, West of Gabrovo town, Uzana area, plantation of *Picea abies* and grass terrains, from the body of the collector, 1253 m, 42°45' 07.2"N 25°14'06.2" E, 06.09.2020, many specimens, Dilian Georgiev leg, det.

Remarks: *L. fortisetosa* is considered to have been introduced into Europe with sika deer (*Cervus nippon*) from the Eastern Palaearctic and is continuously expanding its range. Little is known about the medical importance of deer keds, but they can cause hair loss in cervids and are suspected to be vectors of several diseases (Kurina *et al.* 2019).

STRATIOMYIDAE

***Beris chalybata* (Forster, 1771)**

Sarnena Gora Mts, N of Stara Zagora, along Bedechka River, flood forest, 227 m, 42°27'06.9" N, 25°37'54.8" E, 16.5.2017, DG, 1 M.

The species known from almost whole Europe, also from Bulgaria (Rozkošný 1982-1983).

***Chloromyia speciosa* (Macquart, 1834)**

Sarnena Gora Mts, Hristeni vill., yard, 42°27'12.7"N, 25°42'18.9"E, 183 m, 2.7.2017, D. Georgiev leg. 1 M.

In Europe restricted to central and southern areas, known also from Bulgaria (Rozkošný 1982-1983).

***Lasiopa villosa* (Fabricius, 1794)**

Sarnena Gora Mts, Hristeni vill., yard, 42°27'12.7"N, 25°42'18.9"E, 183 m, 2.7.2017, D. Georgiev leg. 1 F, dtto, 10.6.2018, 1 F.

Known from central and SE parts of Europe, also from Bulgaria (Rozkošný 1982-1983).

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

Sarnena Gora Mts, Hristeni vill., yard, 42°27'12.7"N, 25°42'18.9"E, 183 m, 2.7.2017, D. Georgiev leg. 1 F.

Widely distributed species distributed throughout the whole Europe, known also from Bulgaria (Rozkošný 1982-1983).

TACHINIDAE

***Euthera fascipennis* (Loew, 1854)**

Sarnena Gora Mts, Hristeni vill., yard, 42°27'12.7"N, 25°42'18.9"E, 231 m, 2.7.2017, in an old barn 1 F (Fig. 1); same locality, 6.8.2017, D. Georgiev leg. 1 F, on *Prunus sativa* tree.

E. fascipennis is the only representative of the genus in Europe and is also found in North Africa and the Afrotropical and Oriental regions (Francati *et al.* 2017).

DIPTERA



Fig. 1. *Euthera fascipennis*: 2.7.2017, Sarnena Gora, Hrishteni village, yard of a house 1 ex. in an old barn (photo: D. Georgiev).

TABANIDAE

***Chrysops flavipes* Meigen, 1804**

Sarnena Gora Mts, Kirilovo vill., near river, 30.7.2017, D. Georgiev leg. 1 F.

Mediterranean species penetrating into southern parts of central Europe, it is known from all Balcan countries (Chvála 2013). Altogether 53 species and subspecies of Tabanidae are known from the Sarnena Gora Mts. (Ganeva 2020), but *C. flavipes* is published for the first time from this region.

ULIDIIDAE

***Herina nigrina* (Meigen, 1826)**

Sarnena Gora Mts., N of Kolena vill., xeric forest (*Carpinus orientalis*, *Quercus* spp.), 42°29'20.5"N, 25°43'13.6", 294 m, 31.8.–5.9.2016, D. Georgiev leg. , 1 M.

Distributed in most parts of Europe except extreme north and east (Fauna Europaea). Firstly published from Bulgaria from locality "Kotel" by Kameneva (2007).

***Otites lamed* (Schrank, 1781)**

Sarnena Gora Mts, S of Kolena vill., Medven hill, broadleaf forest, 215 m, 42°27'23.6" N, 25°44'00.6" E, 23.-25.5.2017, DG, 1 M, 1 F; Sarnena Gora Mts, N of Stara Zagora, along Bedechka River, flood forest, 227 m, 42°27'06.9" N, 25°37'54.8" E, 16.5.2017, DG, 1 M. Europe from France to SW Russia and from Sweden to Greece, known also from Bulgaria (Kameneva 1997, Kameneva & Greve Jensen 2013).

***Otites levigata* (Loew, 1873)**

Sarnena Gora Mts, Starozagorski bani, park forest, 383 m, 42°26'59.3" N, 25°29'39.2" E, 23.-10.5.2018, DG, 1 F.

Species of SE Europe known from Albania, Bulgaria, Croatia, Hungary, Italy, Romania, Serbia, and Slovakia ((Kameneva 1997, Kameneva & Greve Jensen 2013).

***Otites ruficeps* (Fabricius, 1805) (= *Otites formosa* (Panzer, 1798))**

Sarnena Gora Mts, S of Kolena vill., Medven hill, broadleaf forest, 215 m, 42°27'23.6" N, 25°44'00.6" E, 23.-25.5.2017, DG, 3 M, 1 F; Sarnena Gora Mts, N of Stara Zagora, along Bedechka River, flood forest, 227 m, 42°27'06.9" N, 25°37'54.8" E, 16.5.2017, D. Georgiev

DIPTERA

leg. 1 F; Sarnena Gora Mts, Hristeni vill., yard, 42°27'12.7"N, 25°42'18.9"E, 183 m, 15.6.2017, D. Georgiev leg., 1 F; Sarnena Gora Mts, Hristeni vill., yard, 42°27'12.7"N, 25°42'18.9"E, 183 m, 5.5.2018, D. Georgiev leg. 1 F.

Europe from France and Germany to central Russia on east and Greece on southeast, known also from Bulgaria ((Kameneva 1997, Kameneva & Greve Jensen 2013).

References

- Dvořáková, K. (2008) Heleomyzidae and Lauxaniidae (Diptera: Brachycera: Acalyptrata) trapped in the Czech Republic with syrup and fermented fruit. *Linzer biologische Beiträge*, 40: 507-515.
- Chvála, M. (2013) Fauna Europaea: Tabanidae. In: Pape T. & Beuk P. (Eds): *Fauna Europaea: Diptera Brachycera. Fauna Europaea version 2017.06*. <http://www.faunaeur.org/>
- Francati, S., Dindo, M., & Cerretti, P. (2017) A new host record for *Euthera fascipennis* (Diptera: Tachinidae), *Fragmenta entomologica*, 49 (1): 93-95.
- Ganeva, D. (2020) Horse flies (Tabanidae, Diptera) of Sarnena Gora Mountains. *ZooNotes*, Supplement 9: 52-59.
- Kameneva, E. P. (1997) A preliminary review of the *Otites formosa* species-group (Diptera, Ulidiidae, Otitinae). *Russian Entomological Journal*, (1996) 5 (1-4): 125-133.
- Kameneva E. P. (2007) A new species of *Herina* (Diptera, Ulidiidae) from Switzerland, with a key to European species and notes on nomenclature and distribution. *Vestník zoologii*, 41 (5): 405-421,
- Kameneva, E. P. & Greve Jensen, L. (2013) Ulidiidae. In: Pape, T. & Beuk, P. (ed.) *Fauna Europea. Diptera: Brachycera. Fauna Europaea version 2017.06*, <https://fauna-eu.org>
- Kurina, O., Kirik, H., Ōunap, H. & Ōunap, E. (2019) The northernmost record of a blood-sucking ectoparasite, *Lipoptena fortisetosa* Maa (Diptera: Hippoboscidae), in Estonia. *Biodiversity Data Journal*, 7: e47857.
- Roháček, J. & Heřman, P. (2009) Ulidiidae. In: Roháček J. & Ševčík J. (Eds): *Diptera of the Poľana Protected Landscape Area – Biosphere Reserve (Central Slovakia)*. SNC SR, Administration of the PLA – BR Poľana, Zvolen, pp. 195-197.
- Rozkošný, R. (1982/1983) *A biosystematic study of the European Stratiomyidae (Diptera)*. Vols 1-2. W. Junk, The Hague-Boston-London, 401 + 431 pp.
- Woźnica, A. (2013) Fauna Europaea: Heleomyzidae. In: Pape T. & Beuk P. (Eds): *Fauna Europaea: Diptera Brachycera. Fauna Europaea version 2017.06*. <http://www.faunaeur.org/>