

Fungus gnats (Diptera: Sciaroidea) of the Gemer region (Central Slovakia): Part 4 – additions and corrections

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Fungus gnats (Diptera: Sciaroidea) of the Gemer region (central Slovakia): Part 4 - additions and corrections – Čas. Slez. Muz. Opava (A), 61: 187-192, 2012.

A b s t r a c t: New records of Ditomyiidae, Keroplatidae and Mycetophilidae (Diptera) are presented from Muránska planina National Park in the Gemer region in Central Slovakia. The material was obtained mainly in the years 2011–2012 by means of Malaise traps and by individual collecting by the authors. Six species, *Macrorrhyncha rostrata* (Zetterstedt, 1851), *Greenomyia stackelbergi* Zaitzev, 1982, *Dynatosoma nigripes* Ševčík & Papp, 2001, *Sceptonia hamata* Ševčík, 2004, *Anatella flavomaculata* Edwards, 1925, and *Anatella stimulea* Plassmann, 1977 are recorded from Slovakia for the first time. The species *Synplasta terezae* Ševčík, 2009, recently described from the Gemer region, is recorded as new to Hungary.

K e y w o r d s: *Insecta, Diptera, Sciaroidea*, new records, faunistics, Slovakia, Europe

Introduction

In the previous three contributions to the knowledge of fungus gnats (Diptera: Sciaroidea) of the Gemer region, six families were treated: Bolitophilidae, Diadocidiidae, Ditomyiidae and Keroplatidae in Part 1 (Ševčík & Kurina 2011a), Mycetophilidae in Part 2 (Ševčík & Kurina 2011b), and Sciaridae in Part 3 (Rudzinski & Ševčík 2012).

During the years 2011 and 2012, several additional species were collected in Muránska planina National Park and these findings are presented in this contribution.

Material and methods

The list of species below is based on the material collected recently (2011 – 2012) in NP Muránska planina by means of Malaise traps and sweep netting, identified by the author and deposited in JSOC and SMOC. In the species list, the collecting method is indicated only for Malaise traps (as MT), otherwise the material was collected by sweeping. For further details about methods and photographs of localities see Ševčík & Kurina (2011a) and Rudzinski & Ševčík (2012).

Abbreviations: * = first records for Slovakia; NP = National Park, NPR = National Nature Reserve, m = male, f = female, JR = Jindřich Roháček leg., JŠ = Jan Ševčík leg., MT = Malaise trap, JSOC = Jan Ševčík, Ostrava (personal collection), SMOC = Slezské zemské muzeum, Opava, Czech Republic.

Survey of species

DITOMYIIDAE

Symmerus nobilis Lackschewitz, 1937

A rare European species, recorded from Slovakia by Martinovský (1995) and Ševčík (2009b).

Material examined: NP Muránska planina: NPR Poludnica, 31.v.-13.vii.2011, 1 m (JŠ, MT), Tisovec env., along Furmanec brook, 23.vi.2012, 1 m (JŠ).

KEROPLATIDAE

Antlemon brevimanum (Loew, 1871) – Fig. 1

A rare European species. The record of *A. servulum* (Walker, 1836) from NP Slovenský raj (Ševčík & Kurina 2011a) is now considered as a misidentification and that specimen is recorded here as *A. brevimanum*.

Material examined: NP Slovenský raj: NPR Stratená, 27.ix.2009, 1 m (JŠ, Ševčík & Kurina 2011a); NP Muránska planina: NPR Šiance, top plateau, deciduous forest, 7.ix.2011, 1 m (JŠ).

***Macrocera centralis* Meigen, 1818**

A rather common and widespread Palaearctic species, erroneously omitted in the species list by Ševčík & Kurina (2011a).

Material examined: NP Muránska planina: NPR Hrdzavá, 16.vi.2009, 1 m (JŠ).

***Macrorrhyncha collarti* Tollet, 1955**

A rare Palaearctic species. From Slovakia recorded by Chandler (1995) and Ševčík (2009b).

Material examined: NP Muránska planina: Nižná Klaková, spruce forest, 4.ix.2012, 1 m (JŠ).

****Macrorrhyncha rostrata* (Zetterstedt, 1851)**

A very rare European species, reliably known only from Sweden because Kjærandsen & Chandler (2011) described a very similar species from England, Sweden and Channel Islands. This is the first record from Slovakia and confirmation of its occurrence in Central Europe.

Material examined: NP Muránska planina: NPR Šiance, top plateau, deciduous forest, 25.v.2012, 2 m (JŠ).

***Monocentrotia lundstroemi* Edwards, 1925**

A rather rare European species, recorded by Ševčík (2007) from a single locality in the Poľana Biosphere Reserve as new to Slovakia. This is the second known Slovakian locality. This species is, however, often found at light traps so may be overlooked using other collecting techniques and is possibly more frequent than is usually considered.

Material examined: NP Muránska planina: Javorinka saddle, 950 m, clearing in forest, 27.vii.2012, 2 m, reared from *Festuca pratensis* (JR, sample B55). For method of rearing see Ševčík & Roháček (2008).

***Neoplatyura flava* (Macquart, 1826)**

A locally common Palaearctic species, recorded from Slovakia by Martinovský (1995) and Ševčík (2009b).

Material examined: NP Muránska planina: Tisovec, along Furmanec brook, 12.vii.2011, 3 m (JŠ).

***Orfelia gruevi* Bechev, 2002**

These are new records of this rare species, hitherto known only from Bulgaria, Greece and NP Muránska planina in Slovakia (cf. Ševčík & Kurina 2011a).

Material examined: NP Muránska planina: NPR Šiance, top plateau, 7.ix.2011, 1 m (JR), 26.vii.-4.ix.2012, 6 m, 4.ix.-26.x.2012, 12 m, MT (JR & JŠ).

MYCETOPHILIDAE

***Neoempheria lineola* (Meigen, 1818) – Fig. 2**

An uncommon species, recorded for the first time from Slovakia by Martinovský (1995).

Material examined: NP Muránska planina: NPR Hrdzavá, 25.v.2012, 1 m (JŠ).

****Greenomyia stackelbergi* Zaitzev, 1982**

This species was described from the Russian Far East (Zaitzev 1982) and has subsequently been recorded only from several semi-urban localities in Sweden and Norway, including a large material collected near compost in a garden (Kurina et al. 2011). The Slovakian specimen was accidentally sifted from a small haystack found in a submontane village (see Fig. 6 in Roháček 2012). This is the first record from Slovakia, as well as from Central Europe.

Material examined: NP Muránska planina: Zlatno, 6.ix.2012, 1 f, in a rotting grass heap (JR).

***Docosia muranica* Kurina & Ševčík, 2011 – Fig. 3**

The following new record of this recently described species (cf. Kurina & Ševčík 2011) confirms that it is a locally common species of *Docosia* in NP Muránska planina.

Material examined: Muránska planina NP: NPR Šarkanica, 12.iv.2012, 9 m, 5 f (JŠ).

****Docosia* sp.**

This is most probably an undescribed species that will be treated elsewhere.

Material examined: Muránska planina NP: NPR Šiance, 25.v.2012, 1 ♂ (JŠ).

***Boletina pallidula* Edwards, 1925**

The only previous Slovakian record was from NP Slovenský kras (cf. Ševčík & Kurina 2011b), so this is the first record from NP Muránska planina.

Material examined: NP Muránska planina: NPR Šiance, top plateau, 24.vi.-26.vii.2012, 3 m, MT (JR & JŠ).



Figs 1-2: 1 – Male of *Antlemon brevimanum* (Loew, 1871) from Šiance reserve; 2 – Male of *Neoempheria lineola* (Meigen, 1818) from Hrdzavá reserve. Photos by J. Ševčík.

****Dynatosoma nigripes* Ševčík & Papp, 2001 – Fig. 4**

A remarkable species recently described from Hungary (Ševčík & Papp 2001) and hitherto not known from any other country. This is the first record from Slovakia.

Material examined: NP Muránska planina: NPR Hrdzavá, 24.vi.2012, 1 f (JŠ).

****Sceptonia hamata* Ševčík, 2004**

This species was described from southern Moravia in the Czech Republic (Podyjí NP, see Ševčík 2004) and later recorded from Bosnia and Herzegovina, Finland, Sweden (Jakovlev et al. 2006, Kjærandsen et al. 2007), and Bohemia (Ševčík 2011).

Material examined: NP Muránska planina: Muránska Dlhá Lúka, 3.ix.2012, 2 m (JŠ); Muránska Lehota, 5.ix. –25.x.2012, 1 m, MT (JR & JŠ).

***Trichonta apicalis* Strobl, 1898**

An uncommon species, recorded from Slovakia by Chandler (1995).

Material examined: NP Muránska planina: NPR Šarkanica, 12.iv.2012, 1 m (JŠ).

***Anatella aquila* Zaitzev, 1989**

A very rare species, hitherto known only from the Altai Mts., Russian Far East, northern Europe and one locality in Slovakia (Poľana BR, see Ševčík 2006). This is the second record from Slovakia.

Material examined: NP Muránska planina: Muránska huta env., deciduous forest, 11.iv.2012, 1 m (JŠ).

****Anatella flavomaculata* Edwards, 1925**

A rare Holarctic species. This is the first record from Slovakia.

Material examined: NP Muránska planina: Muránska Lehota, 12.iv. –24.v.2012, 1 m, MT (JR & JŠ).

***Anatella minuta* (Staeger, 1840)**

A rather rare Holarctic species, recorded as new to Slovakia (Poloniny NP) by Ševčík (2004).

Material examined: NP Muránska planina: Muránska huta env., deciduous forest, 11.iv.2012, 1 m (JŠ).

****Anatella stimulea* Plassmann, 1977**

A very rare species, hitherto recorded only from Austria, Germany, Switzerland and one locality in the Czech Republic (Ševčík 2004). This is the first record from Slovakia.

Material examined: NP Muránska planina: Muránska huta env., deciduous forest, 11.iv.2012, 1 m (JŠ).

***Brachypeza armata* Winnertz, 1863**

A rather rare but widespread European species recorded as new to Slovakia (Poloniny NP) by Martinovský (1995). Like other *Brachypeza* species it may be found locally in numbers around colonies of fungi of the genus *Pleurotus*, in which the larvae develop (cf. Ševčík 2010).

Material examined: NP Muránska planina: Muránska Lehota, 24.v. –22.vi.2012, 1 m, MT (JR & JŠ).

***Exechiopsis leptura* (Meigen, 1830)**

An uncommon species, recorded as new to Slovakia (Poloniny NP) by Ševčík (2004).

Material examined: NP Muránska planina: Muránska huta env., deciduous forest, 11.iv.2012, 2 m (JŠ).

***Synplasta terezae* Ševčík, 2009**

This species was described from Hrdzavá Valley in NP Muránska planina (Ševčík 2009a) and here the opportunity is taken to record it as new to Hungary. The second known specimen of this species was found in the collection of the Muséum national d'Histoire naturelle (Paris), labelled as "*Allodiopsis* (*Gymno.*) n. sp. aff. *excogitata* et *exclusa* Dzied., L. Matile det. 1972".

Material examined: Hungary: Vérteskozma, Fánien-v., 22.viii.1961, 1 m, leg. Zsirkó (in MNHN Paris).

Final remarks

A total of 3 species of Ditomyiidae, 30 species of Keroplatidae and 330 species of Mycetophilidae (including one undescribed) have been recorded from the Gemer region up to the present. This number, however, cannot be considered final because further collecting trips will undoubtedly bring new additions to the local fauna.

Within the Gemer region, Muránska planina National Park is by far the best-studied area, with some 300 species of Mycetophilidae recorded, and it thus belongs to the best-studied and most species-rich national parks in Central Europe. Both species richness and presence of many interesting and rare species confirm that it is an exceptional territory deserving full protection.



Figs 3-4: 3 – Male of *Docosia muranica* Kurina & Ševčík, 2011 from Šarkanica reserve; 4 – A female of *Dynatosoma nigripes* Ševčík & Papp, 2001 from Hrdzavá; Photos by J. Ševčík.

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Dvoukřídlí nadčeledi Sciaroidea (Diptera) regionu Gemer (střední Slovensko): Část 4 – doplňky a opravy

Nové nálezy druhů čeledi Ditomyiidae, Keroplatidae a Mycetophilidae jsou publikovány z národního parku Muránska planina v oblasti Gemer na středním Slovensku. Materiál byl získán v letech 2011–2012 především odchytom do Malaiseho pastí a individuálním sběrem autora. Šest druhů, *Macrorrhyncha rostrata* (Zetterstedt, 1851), *Greenomyia stackelbergi* Zaitzev, 1982, *Dynatosoma nigripes* Ševčík & Papp, 2001, *Sceptonia hamata* Ševčík, 2004, *Anatella flavomaculata* Edwards, 1925 a *Anatella stimulea* Plassmann, 1977 je zaznamenáno jako nových pro Slovensko a jeden další druh je dosud nepopsaný. Druh *Synplasta terezae* Ševčík, 2009, nedávno popsáný z Muránské planiny, je zaznamenán jako nový pro Maďarsko.

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