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***Glossostyles perspicua* gen. et sp. nov. and other fungivorous
Cecidomyiidae (Diptera) new to the Czech and Slovak Republics**

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Abstract. Fungivorous gall midges of the subfamilies Lestremiinae, Micromyinae, Winnertziinae and Porricondyliinae were largely neglected in previous inventories of the Diptera faunas of the Czech and Slovak Republics. A taxonomic-faunistic study focusing on these subfamilies identified a total of 80 species, of which 49 are new records for the Czech Republic and 33 are new records for Slovakia. Species that have never before been found in central Europe are *Aprionus dalarnensis* Mamaev, 1998, *A. oligodactylus* Jaschhof, 2009, *A. pigmentalis* Mamaev, 1998, *Asynapta inflata* Spungis, 1988, *Camptomyia gigantea* Spungis, 1989, *Cassidoides fulviventris* (Mamaev, 1964), *Claspettomomyia hamata* (Felt, 1907), *Dendrepidosis longipennis* (Spungis, 1981), *Dicerura dispersa* Jaschhof, 2013, *Divellepidosis lutescens* (Spungis, 1981), *D. pallescens* (Panelius, 1965), *D. vulgata* Jaschhof, 2013, *Ekmanomyia svecica* Jaschhof, 2013, *Holoneurus ciliatus* Kieffer, 1896, *Monepidosis pectinatoides* Jaschhof, 2013, *Neocolpodia gukasiani* (Mamaev, 1990), *Neurolyga acuminata* Jaschhof, 2009, *Neurolyga interrupta* Jaschhof, 2009, *Parepidosis planistylata* Jaschhof, 2013, *Peromyia bidentata* Berest, 1988, *Porricondyla errabunda* Mamaev, 2001, *P. microgona* Jaschhof, 2013, *P. tetraschistica* Mamaev, 1988, *Schistoneurus irregularis* Mamaev, 1964, *Spungisomyia fenestrata* Jaschhof, 2013, *S. media* (Spungis, 1981), *Tetraneuromyia lamellata* Spungis, 1987, *T. lenticularis* (Spungis, 1987), and *Winnertzia parvispina* Jaschhof, 2013. A new genus including a single new species of Porricondyliini is described and named *Glossostyles perspicua* Jaschhof & Sikora gen. et sp. nov. on the basis of specimens collected in the Czech Republic and Sweden. Adult morphology suggests that *Glossostyles* gen. nov. is a close relative of *Claspettomomyia* Grover, 1964.

Keywords. Palaearctic region, central Europe, new genus, new species, new faunistic records.

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Introduction

Gall midges, Cecidomyiidae, are a large family of small-sized, mostly short-lived dipterans that belong to the infraorder Bibionomorpha (Wiegmann *et al.* 2011; Ševčík *et al.* 2014) and, most probably, to the superfamily Sciaroidea (Ševčík *et al.* 2016). The family is best known for its herbivorous species (subfamily Cecidomyiinae), which account for about $\frac{4}{5}$ of the described biodiversity, while the five basal subfamilies (Catotrichinae, Lestremiinae, Micromyinae, Winnertziinae, Porricondylinae) contain solely fungivores, as far as the biology is known (Gagné & Jaschhof 2014). Taxonomic research on the fungivorous subfamilies has intensified in recent years, leading to a reclassification of the entire family and improving the tools for the identification of species, especially in Europe (Jaschhof 1998; Jaschhof & Jaschhof 2009, 2013). In the Czech and Slovak Republics (former Czechoslovakia) the study of gall midges is firmly established through the dedicated work of Marcela Skuhrová and Václav Skuhrový (see Bílý 2015), but was previously focused largely on Cecidomyiinae (e.g., Skuhrová 1991, 1994). This circumstance is not unusual and corresponds to the common practice of splitting responsibilities between workers on herbivorous gall midges, on the one hand, and fungivorous gall midges, on the other hand.

A research group established at the University of Ostrava to study mainly Bibionomorpha systematics, biodiversity and biology has recently expanded its research interest onto Cecidomyiidae, including the fungivorous subfamilies (Mantič *et al.* 2015). Another outcome from the faunistic-taxonomic surveys conducted by that group, which includes two of the present authors, is presented here, this time dedicated wholly to fungivorous gall midges. Considering that former efforts to inventory Czech and Slovak Diptera largely neglected these inconspicuous midges, it does not come as a surprise that the present study unveiled a number of new species records for either or both of the two countries. Other taxa were identified to be even new to science, including *Glossostyles perspicua* gen. et sp. nov., a new member of the tribe Porricondylini described in this paper.

Material and methods

Specimens for this study, mostly male adults, were collected in 1999–2015 by sweepnet (SW) and Malaise traps (MT) in a number of different localities in the Czech Republic (CZ) and Slovakia (SK). The range of habitats covered by these collecting efforts included natural woodland, peat-bogs, meadows, steppes and heathlands, with many of the collecting sites located in areas benefitting from some kind of conservation status, a fact accounting for the generally high habitat quality (Figs 1–2). Most of the specimens studied here were collected in the frame of several large-scale inventory projects organized by the Czech dipterists Miroslav Barták, Štěpán Kubík, Jindřich Roháček, and Jan Ševčík. For descriptions of the localities and collecting methods used in those projects, see Barták & Kubík (2005), Kubík (2001), Roháček & Ševčík (2009) and Ševčík & Kurina (2011).

No attempt has been made at this stage to verify identifications by studying the respective voucher specimens of the Czech and Slovak species referred to in the literature. A series of both males and females of the newly described species were collected during an insect inventory in Tyresta National Park, Sweden, and received on loan from the Naturhistoriska Riksmuseet in Stockholm (NHRS). Specimens studied here were mounted on microscope slides according to the method described by Jaschhof & Jaschhof (2009), with Hoyer's medium used instead of Canada balsam in a part of the material. Types of the new species are deposited in the National Museum in Prague (NMPC), other specimens in the



Fig. 1. Sampling localities. **A.** Rejvíz peat-bog (Czech Republic) with a Malaise trap used in 2004. A well preserved postglacial peat-bog with *Pinus rotundata* growth. **B.** Rejvíz peat-bog with the Malaise trap used in 2005. Photos by J. Ševčík.



Fig. 2. Sampling localities. **A.** Velká Kotlina Glacial Cirque (Czech Republic) with a Malaise trap used in 2006. Frequent avalanches are the main cause of the unique subalpine biodiversity of this locality (e.g., more than 350 species of vascular plants have been recorded from there) **B.** Hrončecký grúň Reserve in Poľana Mts (Slovak Republic) with a Malaise trap used in 2005. This is a virgin forest mainly composed of fir and beech intermixed with ash, spruce and sycamore maple and with an enormous and unique diversity of flies (see Roháček & Ševčík 2009). Photos by J. Ševčík

personal collection of Tomáš Sikora (TSPC), which will ultimately be deposited in NMPC, in the NHRS, and in the Senckenberg Deutsches Entomologisches Institut (SDEI), Müncheberg, Germany. Morphological terms used here are in accordance with those applied to fungivorous Cecidomyiidae by Jaschhof & Jaschhof (2009, 2013), and, with respect to wing veins, Jaschhof (2016). The arrangement of subfamilies follows the classification outlined by Gagné & Jaschhof (2014); genera and species are listed alphabetically.

Other abbreviations used in the present paper are as follows:

BR = Biosphere Reserve
 NM = Nature Monument
 NR = Nature Reserve
 NNR = National Nature Reserve
 NP = National Park
 tg = tergite

Results

Class Insecta Linnaeus, 1758
 Order Diptera Linnaeus, 1804
 Infraorder Bibionomorpha Hennig, 1954
 Family Cecidomyiidae Newman, 1834

Genus *Glossostyles* Jaschhof & Sikora gen. nov.

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Type species

Glossostyles perspicua gen. et sp. nov., described below.

Diagnosis

Adult morphology shows *Glossostyles* gen. nov. to be a typical member of the tribe Porricondylini, where it belongs to the large group of genera with 14 male flagellomeres and without basitarsal spines (group Aa in Jaschhof & Jaschhof 2013). The unadorned but massive construction of the male genitalia (Fig. 3D) makes *Glossostyles* gen. nov. distinctive, with the particulars as follows. The gonocoxae are fully merged ventromedially and lack processes at the posterior edge; the gonostyli are disproportionately large and have no apical structure other than a sparse row of inconspicuous spines; the parameres are fused to form a tegmen, which encloses the ejaculatory apodeme dorsally as a weakly sclerotized semi-cylinder whose shape is elongate-trapezoid in ventral view. Similarly, large gonostyli and gonocoxae are found in other genera of Porricondylini, such as *Pseudepidosis* Mamaev, 1966 and *Claspettomomyia* Grover, 1964, but there they are modified, the gonostyli with apical teeth and/or subapical swellings, and the gonocoxae with a ventral emargination and various processes. Unlike in *Glossostyles* gen. nov., the parameres in *Pseudepidosis* and *Claspettomomyia* are strongly sclerotized, and are either separated from each other or complexly built. *Claspettomomyia* is peculiar among these three genera for having 13 instead of 14 male flagellomeres.

Etymology

The name *Glossostyles* is composed of the Greek words ‘*glossa*’, for tongue, and ‘*stylos*’, for stylus, with reference to the distinctive tongue-shape of the gonostyli. Gender is feminine.

Notes on relationship

Obvious similarities in the structure of the gonostyli and gonocoxae suggest that *Glossostyles* gen. nov. is most closely related to *Claspettomyia*. In both genera the gonostyli are enormously large, constricted beyond the basal apophyses, which are well developed, and clearly broadened further distally, while the massive gonocoxae are much broader than long.

Glossostyles perspicua Jaschhof & Sikora gen. et sp. nov.
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Fig. 3A–F

Diagnosis

This species differs from the other Porricondylini in the characters referred to in the generic diagnosis of *Glossostyles* gen. nov. In particular, the tongue-shaped gonostyli, which are unusually large and directed ventromedially, make *G. perspicua* gen. et sp. nov. unmistakable.

Etymology

The species epithet '*perspicua*' is a Latin adjective, meaning 'unmistakable'.

Type material

Holotype

CZECH REPUBLIC: ♂, Bohemia, Šumava Mts, Zhůřské slatě, peat-bog, 24 Jun.–28 Jul. 2000, MT, M. Barták and Š. Kubík leg. (NMPC-35000).

Paratype

CZECH REPUBLIC: ♂, Bohemia, Šumava Mts, Horská Kvilda, spruce forest, 20 May–17 Jun. 1999, MT, M. Barták and J. Roháček leg. (NMPC-35001).

Other material studied

SWEDEN: ♂, Södermanland, Tyresta NP, Naturvårdsverket inventory site "1 south", 15 Jul.–26 Aug. 2000, B. Viklund, L.-O. Wikars and H. Ahnlund leg. (NHRS-GULI000022473); 14 ♂♂, 12 ♀♀, same locality, site "4", 10–26 May 2001 (NHRS-GULI000022471, -472, -474–479 and SDEI).

Description

Male

Body. Size up to 2.2 mm.

HEAD. Postfrons asetose. Eye bridge 3–4 ommatidia long dorsally. Antenna slightly longer than body. Scape and pedicel lighter than flagellum. Circumfila on flagellomeres 1–14, evenly ring-shaped. Neck of fourth flagellomere 1.2 times as long as node (Fig. 3E). Palpus 1.3 times as long as head height, 4 subcylindrical segments, fourth segment longest of all.

THORAX. Anepisternum and anepimeron setose. Wing (Fig. 3A) longer than body. Length/width 2.8. Rs strongly oblique, almost in line with R₅. Btv sinuous. A remnant M₁₊₂ present at wing margin. M₄ weak, approaches CuA. Legs densely covered with narrow scales, conspicuously light setae on third to fifth tarsomeres (therefore tarsi white-tipped). Claws moderately curved, 1 large and 2–4 smaller teeth basally. Empodia broad, as long as claws.

ABDOMEN. Sclerites entire, setae long, aligned on posterior margin, dispersed elsewhere. Pleural membrane sparsely setose.

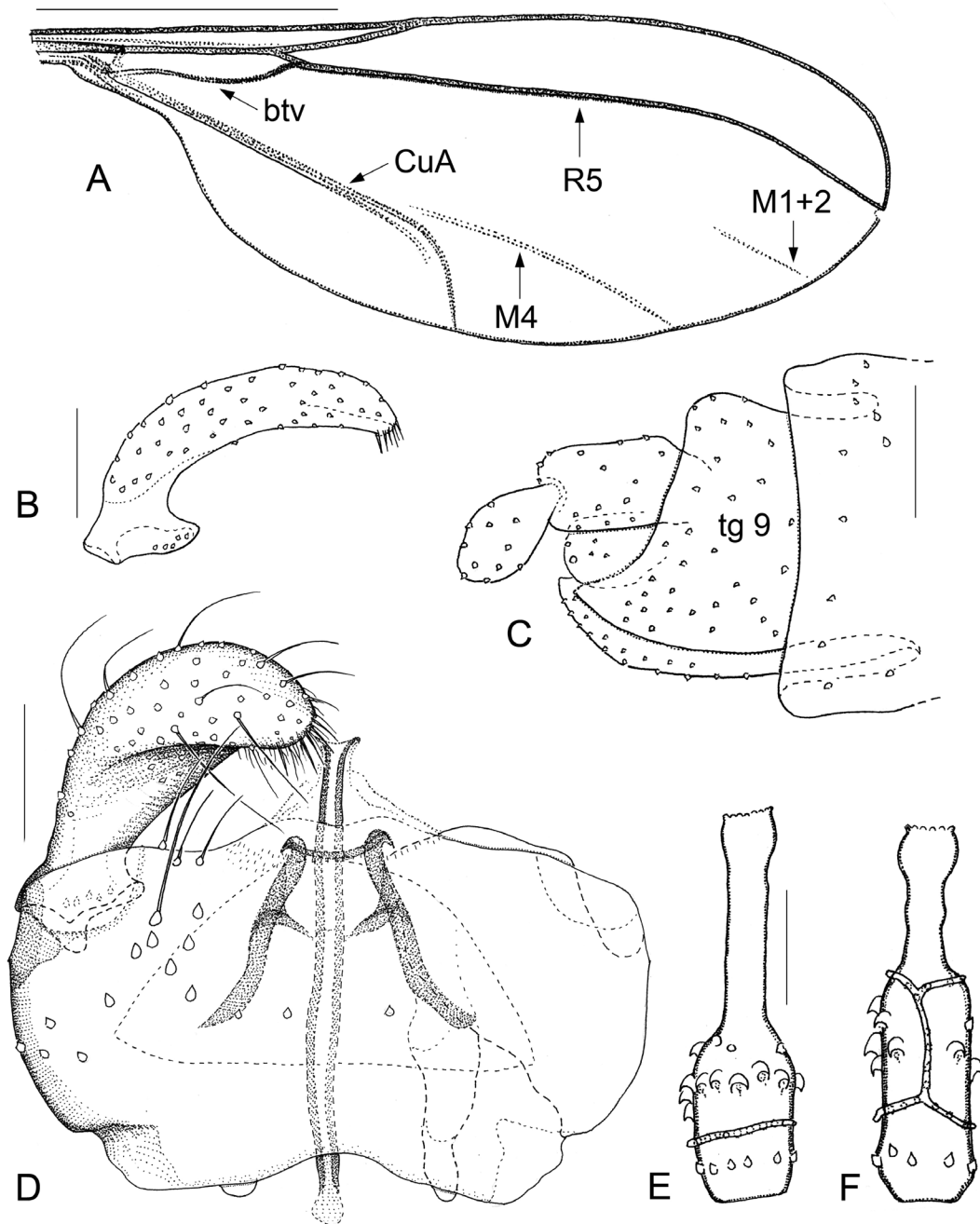


Fig. 3. Morphology of *Glossostyles perspicua* Jaschhof & Sikora gen. et sp. nov. **A.** Wing, setae omitted (♀ from Tyresta). **B.** Gonostylus, lateral (specimen from Tyresta). **C.** Female genitalia, lateral view (specimen from Tyresta). **D.** Male genitalia, ventral (holotype). **E.** Male fourth flagellomere, lateral view (holotype). **F.** Female fourth flagellomere, lateral (specimen from Tyresta). Scale bars: A = 1 mm; B–F = 0.05 mm.

GENITALIA (Fig. 3D). Ninth tergite subtrapezoid. Gonocoxae broad, sparsely setose ventrally, with membranous, glabrous lobe medially on posterior edge; apodemes thick, long. Gonostylus massive, but appears surprisingly slender in strict lateral view (Fig. 3B), slightly curved, longer than gonocoxa, broadest at mid-length, constricted subbasally, on apex a few thin spines intermingled with long microtrichia, setae of various lengths elsewhere. Tegmen subtrapezoid in ventral view, with narrow collar apically, small apodemes beyond mid-length. Ejaculatory apodeme longer than gonocoxites, moderately sclerotized.

Female

BODY. Size up to 2.8 mm.

HEAD. Antenna with 11 flagellomeres. Flagellomeres with elongate-subcylindrical nodes, distinct necks, circumfila as in Fig. 3F. Neck of fourth flagellomere more than half as long as node.

GENITALIA (Fig. 3C). As typical for Porricondyliini, including unusually large ninth tergite, 2-segmented dorsal lamella. Disticercus slightly smaller than basicercus.

Note on identification

The specimens of *G. perspicua* gen. et sp. nov. from Tyresta were initially identified as an unnamed species of Porricondyliini by Voldemars Spungis, University of Latvia, who worked, but never published, on the Porricondyliinae from the Tyresta insect inventory in the early 2000s. Due to the rather poor state of preservation, those specimens remained undescribed in Jaschhof & Jaschhof's (2013) revision of Swedish Porricondyliinae.

New faunistic records

Lestremiinae Rondani, 1840

Anaretella Enderlein, 1911

Anaretella iola Pritchard, 1951

Material

CZECH REPUBLIC: 4 ♂♂, Moravia & Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC); 2 ♂♂, Bohemia, Šumava Mts, Zhůřské slatě, 18 May–16 Jun. 1999, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Widely distributed throughout the Holarctic realm (Gagné & Jaschhof 2014). New to CZ.

Micromyinae Rondani, 1856

Aprionus Kieffer, 1894

Aprionus cornutus Berest, 1986

Material

CZECH REPUBLIC: 3 ♂♂, Bohemia, Šumava Mts, Rokytská slat', 24 Jul.–28 Aug. 2000, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Bohemia, Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Recorded in several European countries, from Norway to Ukraine (Gagné & Jaschhof 2014). New to CZ.

Aprionus dalarnensis Mamaev, 1998

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 27 May–26 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Until now recorded only from northern Europe (Gagné & Jaschhof 2014). New to CZ.

Aprionus denticulus Berest, 1986

Material

CZECH REPUBLIC: 1 ♂, Bohemia, Šumava Mts, Zhůřské slatě, 18 May–16 Jun. 1999, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

European in distribution (Gagné & Jaschhof 2014). New to CZ.

Aprionus dentifer Mamaev, 1965

Material

CZECH REPUBLIC: 3 ♂♂, Bohemia, Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to CZ.

Aprionus flavidus (Winnertz, 1870)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 4 Sep. 2015, SW, T. Sikora and J. Ševčík leg. (TSPC).

Distribution

Widely distributed and very common in Europe (Gagné & Jaschhof 2014). New to CZ.

Aprionus halteratus (Zetterstedt, 1852)

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Havrania dolina, 1 Oct. 2015, T. Sikora leg. (TSPC).

Distribution

Common and widely distributed in Europe (Gagné & Jaschhof 2014). New to SK.

Aprionus inquisitor Mamaev, 1963

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 27 May–26 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Widely distributed in Palaearctic region (Gagné & Jaschhof 2014). New to CZ.

Aprionus lindgrenae Jaschhof, 2015

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrončecký grúň NNR, 24 May–23 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Recently described from Sweden and Germany (Jaschhof & Jaschhof 2015), probably more widely distributed in Europe. New to SK.

Aprionus oligodactylus Jaschhof, 2009

Material

CZECH REPUBLIC: 3 ♂♂, Moravia and Silesia, Rejvíz NNR, 27 May–26 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Bohemia, Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Recently described from northern Europe (Jaschhof & Jaschhof 2009). New to CZ.

Aprionus pigmentalis Mamaev, 1998

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Palaearctic in distribution (Gagné & Jaschhof 2014). New to CZ.

Aprionus spiniger (Kieffer, 1894)

Material

SLOVAK REPUBLIC: 1 ♂, Bukovské vrchy Mts, Runina, 29 Jun.–3 Jul. 2015, SW, T. Sikora leg. (TSPC).

Distribution

Common and widely distributed in the Holarctic realm (Gagné & Jaschhof 2014), including CZ and SK (Skuhrová 2004, 2009). An additional record from north-east Slovakia.

Bryomyia Kieffer, 1895

Bryomyia apsectra Edwards, 1938

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 23 Oct. 2015, SW, T. Sikora and J. Ševčík leg. (TSPC); 1 ♂, Moravia and Silesia, Podyjí NP, Terasy, 3 May–2 Jun. 2003, MT, M. Barták and Š. Kubík leg. (TSPC); 2 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

A widespread Palaearctic species (Gagné & Jaschhof 2014). New to CZ.

Bryomyia bergrothi Kieffer, 1895

Material

CZECH REPUBLIC: 3 ♂♂, Bohemia, Šumava Mts, Rokytská slat', 24 Jun.–28 Aug. 2000, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Moravia & Silesia, Šilheřovice, Černý les II. NR, 4 Sep. 2015, SW, J. Ševčík and T. Sikora leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Poľudnica NNR, 30 Sep. 2015, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Very common and widespread in the Palaearctic region (Gagné & Jaschhof 2014). New to CZ and SK.

Bryomyia gibbosa (Felt, 1907)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 21 Jul.–5 Sep. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Bohemia, Rokytská slat', 24 Jun.–28 Jul. 2005, MT, M. Barták and Š. Kubík leg. (TSPC); 2 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

SLOVAK REPUBLIC: 2 ♂♂, Poľana BR, Hrončecký grúň NNR, 24 May–23 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). New to CZ and SK.

Bryomyia helmuti Jaschhof, 1998

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrončecký grúň NNR, 10 Jul.–9 Oct. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known only from the type locality in Germany (Gagné & Jaschhof 2014). New to SK.

Campylomyza Meigen, 1818

Campylomyza dilatata Felt, 1907

Material

CZECH REPUBLIC: 1 ♂, Bohemia, Šumava Mts, Zhůrské slatě, 18 May–16 Jun. 1999, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Widespread in Holarctic realm (Gagné & Jaschhof 2014). New to CZ.

Campylomyza paenebicolor Jaschhof, 2009

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Havraníky, 27 Sep.–14 Nov. 2001, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to CZ.

Catocha incisa Jaschhof, 2009

Material

CZECH REPUBLIC: 5 ♂♂, Bohemia, Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Probably widely distributed in Europe (Jaschhof & Jaschhof 2009). New to CZ.

Heterogenella Mamaev, 1963

Heterogenella hybrida Mamaev, 1963

Material

CZECH REPUBLIC: 1 ♂, Bohemia Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Bohemia, Šumava Mts, Horská Kvilda, 21 Aug.–29 Sep. 1999, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Palaeartic in distribution (Gagné & Jaschhof 2014). New to CZ.

Micromya Rondani, 1840

Micromya lucorum Rondani, 1840

Material

CZECH REPUBLIC: 3 ♂♂, Moravia and Silesia, Podyjí NP, Havraníky, 27 Sep.–14 Nov. 2001, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Bohemia Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

The only member of the genus *Micromyza* Rondani, 1840 in Europe (Gagné & Jaschhof 2014). An additional record for CZ (see Skuhrová 1994, 2009).

Monardia Kieffer, 1895

Monardia (Xylopriona) atra (Meigen, 1804)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Havraníky, 27 Sep.–14 Nov. 2001, MT, M. Barták and Š. Kubík leg. (TSPC); 2 ♂♂, Moravia and Silesia, Podyjí NP, Terasy, 3 May–2 Jun. 2003, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Moravia and Silesia, Podyjí NP, Braitava-letohrádek, 13 May–1 Jun. 2001, MT, M. Barták and Š. Kubík (TSPC).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Muránský hrad, 30 Oct. 2015, SW, J. Roháček leg. (TSPC); 4 ♂♂, Muránská planina NP, Mokrý Poľana NR, 1 Oct. 2015, SW, J. Roháček leg. (TSPC); 2 ♂♂, Muránská planina NP, Poľudnica NNR, 30 Sep. 2015, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Widely distributed in the Holarctic realm (Gagné & Jaschhof 2014). Additional records for CZ and SK (cf. Skuhrová 1994, 2009).

Monardia (Monardia) obsoleta Edwards, 1938

Material

CZECH REPUBLIC: 2 ♂♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, adults emerged 15 Nov. 2015, reared from larvae found in mould on *Royoporus badius*, J. Ševčík and T. Sikora leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). Reported as new to CZ by Ševčík (2010), who found larvae living in mould on the polypore fungus *Royoporus badius*. Another rearing record from CZ is presented here.

Monardia (Xylopriona) toxicodendri (Felt, 1907)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Bílé Karpaty Mts, NR Kútky, 26 Jun. 2008, MT, J. Ježek leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). First recorded in CZ by Skuhrová (1997), another Czech record.

Monardia (Xylopriona) unguifera Berest & Mamaev, 1997

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Staré Město nr. Frýdek-Místek, Profil Morávky NM, 12 Sep. 2015, SW, T. Sikora leg. (TSPC).

Distribution

A rarely collected species, previously known from a few specimens collected in Germany, Ukraine and Finland (Gagné & Jaschhof 2014). New to CZ.

Neurolyga Rondani, 1840

Neurolyga acuminata Jaschhof, 2009

Material

CZECH REPUBLIC: 2 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Palaeartic in distribution (Gagné & Jaschhof 2014). New to CZ.

Neurolyga excavata (Yukawa, 1967)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 21 Jul.–5 Sep. 2004, MT, J. Roháček and J. Ševčík leg.; 2 ♂♂, same data, but 27 May–26 Jun. 2004, MT; 4 ♂♂, same data, but 2 Aug.–28 Sep. 2005, MT (all TSPC).

Distribution

Widely distributed in the Palaeartic region (Gagné & Jaschhof 2014). New to CZ.

Neurolyga interrupta Jaschhof, 2009

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known from northern Europe (Gagné & Jaschhof 2014). New to CZ.

Peromyia Kieffer, 1894

Peromyia bidentata Berest, 1988

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Ledové sluje, 26 Jun.–31 Jul. 2002, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

A rarely collected Palaeartic species (Gagné & Jaschhof 2014). New to CZ.

Peromyia fungicola (Kieffer, 1901)

Material

CZECH REPUBLIC: 2 ♂♂, Moravia and Silesia, Podyjí NP, Ledové sluje, 26 Jun.–31 Jul. 2002, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). Previously reported from CZ by Ševčík (2010). This is an additional record for CZ.

Peromyia ramosa (Edwards, 1938)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Ledové sluje, 26 Jun.–31 Jul. 2002, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Widely distributed in the Palaearctic region (Gagné & Jaschhof 2014). New to CZ.

Polyardis Pritchard, 1947

Polyardis adela Pritchard, 1947

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Studňa, 4 Sep.–10 Oct. 2014, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Bukovské vrchy Mts, Runina, 29 Jun.–3 Jul. 2015, SW, T. Sikora leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). New to SK.

Skuhraviana Mamaev, 1963

Skuhraviana triangulifera Mamaev, 1963

Material

CZECH REPUBLIC: 2 ♂♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 4 Sep. 2015, SW, J. Ševčík and T. Sikora leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). New to CZ.

Winnertziinae Panelius, 1965

Diallactia Gagné, 2004

Diallactia crocea (Kieffer, 1894)

Material

CZECH REPUBLIC: 3 ♂♂, Bohemia, Šumava Mts, Nová Hůrka, 16 Jun.–22 Jul. 1999, MT, M. Barták and Š. Kubík leg.; 1 ♂, same data, but 13 May–24 Jun. 2000, MT (both TSPC).

Distribution

Common and widely distributed in Europe, also occurring in the the Near East (Gagné & Jaschhof 2014). New to CZ.

Ekmanomyia Jaschhof, 2013

Ekmanomyia svecica Jaschhof, 2013

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Moravia and Silesia, Podyjí NP, Fládnická chata, 2 Jul.–3 Aug. 2004, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Recently described from Sweden (Jaschhof & Jaschhof 2013). New to CZ.

Winnertzia Rondani, 1860

Winnertzia globifera Mamaev, 1963

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Studňa, 14 Jul.–4 Sep. 2014, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Muránská planina NP, Hrdzavá dolina, 28 Jun.–26 Jul. 2010, MT, J. Roháček and J. Ševčík leg. (SDEI); 2 ♂♂, Poľana BR, Hrončecký grúň NNR, 24 May–23 Jun. 2005, MT, J. Roháček and J. Ševčík (TSPC); 1 ♂, Poľana BR, Hrončecký grúň NNR, 10 Aug.–9 Oct. 2005, MT, J. Roháček and J. Ševčík (TSPC).

Distribution

This species was recently recorded from CZ by Mantič *et al.* (2015). New to SK.

Winnertzia parvispina Jaschhof, 2013

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Muránská Lehota, 22 Jun.–25 Jul. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known only from Sweden (Gagné & Jaschhof 2014). New to SK.

Winnertzia xylostei Mamaev, 1963

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Bílé Karpaty Mts, Kladénka, 3 Jun. 2008, MT, J. Ježek (SDEI).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Nad Javorníčkovou dolinou, 13 Jul. 2015, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

A common Palaearctic species (Gagné & Jaschhof 2014). New to CZ and SK.

Porricondylinae Kieffer, 1913

Asynapta Loew, 1850

Asynapta inflata Spungis, 1988

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Braitava-letohrádek, 13 May–1 Jun. 2001, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

This species was hitherto known only from Sweden, Latvia and Ukraine (Gagné & Jaschhof 2014). New to CZ.

Asynapta strobi (Kieffer, 1920)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 4 Sep.–24 Nov. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Fabova hoľa NR, 16 Jun.–25 Aug. 2009, MT, J. Roháček and J. Ševčík leg. (SDEI).

Distribution

Widely distributed in the Palaearctic region (Gagné & Jaschhof 2014). New to SK.

Camptomyia Kieffer, 1894

Camptomyia abnormis Mamaev, 1961

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Terasy MT, 3 May–2 Jun. 2003, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to CZ.

Camptomyia corticalis Loew, 1851

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Poľudnica NNR, 8 Jul. 2015, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously recorded from SK by Skuhrová & Košel (1995) as *Camptomyia innotata* Kieffer, 1894; another record for SK is presented here.

Camptomyia flavocinerea Panelius, 1965

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Terasy, 3 May–2 Jun. 2003, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–27 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

This species has recently been reported from both the Czech Republic and Slovakia by Mantič *et al.* (2015). Additional records for CZ.

Camptomyia gigantea Spungis, 1989

Material

SLOVAK REPUBLIC: 2 ♂♂, Muránská planina NP, Čertova dolina, 4 Aug.–19 Sep. 2013, J. Roháček and J. Ševčík leg. (TSPC); 2 ♂♂, Muránská planina NP, Poľudnica NNR, 21 Jun.–9 Aug. 2013, MT, J. Roháček and J. Ševčík leg. (TSPC); 2 ♂♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček and J. Ševčík (TSPC).

Distribution

Until now this species has been known only from Sweden and Latvia (Gagné & Jaschhof 2014). New to central Europe including SK.

Camptomyia multinoda (Felt, 1908)

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrončecký grúň NNR, 10 Aug.–9 Oct. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Muránská planina NP, Šiance, 4 Sep.–26 Oct. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). New to SK.

Camptomyia spinifera Mamaev, 1961

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrončecký grúň NNR, 10 Aug.–9 Oct. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Reported as new to CZ by Skuhrová (2004). New to SK.

Camptomyia ulmicola Mamaev, 1961

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Staré Město nr. Frýdek-Místek, Profil Morávky NM, 12 Sep. 2015, SW, T. Sikora leg. (TSPC).

Distribution

Previously known mostly from northern Europe (Gagné & Jaschhof 2014). New to CZ.

Cassidoides Mamaev, 1960

Cassidoides fulviventris (Mamaev, 1964)

Material

SLOVAK REPUBLIC: 2 ♂♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček & J. Ševčík leg. (TSPC).

Distribution

Widely distributed in the Palaearctic region (Gagné & Jaschhof 2014). New to SK.

Cassidoides fulvus (Kieffer, 1896)

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). New to SK.

Claspettomyia Grover, 1964

Claspettomyia hamata (Felt, 1907)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 9–26 Jun. 2006, MT, J. Roháček and J. Ševčík leg. (SDEI); 3 ♂♂, same data, MT, but 26 Jun.–25 Jul. 2006 (SDEI).

SLOVAK REPUBLIC: 2 ♂♂, Muránska planina NP, Muránska Lehota, 22 Jun.–25 Jul. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Holarctic in distribution (Gagné & Jaschhof 2014). New to CZ and SK.

Coccopsilis Harris, 2004

Coccopsilis marginata (Meijere, 1901)

Material

SLOVAK REPUBLIC: 1 ♂, Muránska planina NP, Hrdzavá dolina, 1 May–28 Jun. 2010, MT, J. Ševčík leg. (SDEI).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). Previously recorded from SK by Skuhrová & Košel (1995), another record for SK is presented here.

Coccopsilis paneliusi (Yukawa, 1971)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Hrdzavá dolina, 14 May 2009, SW, J. Ševčík leg. (SDEI); 1 ♂, same locality, 28 Jun.–26 Jul. 2010, MT, J. Ševčík leg. (SDEI).

Distribution

Palearctic in distribution (Gagné & Jaschhof 2014). New to CZ and SK.

Dendrepidosis Mamaev, 1990

Dendrepidosis longipennis (Spungis, 1981)

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Šiance, 4 Sep.–26 Oct. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

A rarely collected European species (Gagné & Jaschhof 2014). New to SK.

Dicerura Kieffer, 1898

Dicerura dispersa Jaschhof, 2013

Material

SLOVAK REPUBLIC: 2 ♂♂, Muránská planina NP, Hrdzavá dolina, 1 May–28 Jun. 2010, MT, J. Ševčík leg. (SDEI).

Distribution

This is the first record of this species outside the type locality in Sweden (Gagné & Jaschhof 2014). New to SK.

Divellepidosis Fedotova & Sidorenko, 2007

Divellepidosis hypoxantha (Panelius, 1965)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Bílé Karpaty Mts, Kladénka, 3 Jun. 2008, MT, J. Ježek leg. (SDEI); 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to CZ.

Divellepidosis lutescens (Spungis, 1981)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 4 Sep. 2015, SW, J. Ševčík and T. Sikora leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Šiance, 4 Sep.–26 Oct. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known from several European countries (Gagné & Jaschhof 2014). New to central Europe including CZ and SK.

Divellepidosis pallescens (Panelius, 1965)

Material

CZECH REPUBLIC: 2 ♂♂, Moravia and Silesia, Podyjí NP, Liščí skála, 26 Jun.–24 Jul. 2001, MT, M. Barták and Š. Kubík leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček and J. Ševčík (TSPC).

Distribution

Previous records from northern Europe (Gagné & Jaschhof 2014). New to CZ and SK.

Divellepidosis vulgata Jaschhof, 2013

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Čížovský rybník, 26 Jun.–24 Jul. 2001, MT, M. Barták and Š. Kubík leg. (TSPC); 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 27 May–26 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Recently described from Sweden (Jaschhof & Jaschhof 2013). New to CZ.

Holoneurus Kieffer, 1895

Holoneurus ciliatus Kieffer, 1896

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Nad Javorníčkovou dolinou, 5 May–11 Jun. 2015, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known from France and Sweden (Gagné & Jaschhof 2014). New to central Europe including SK.

Monepidosis Mamaev, 1966

Monepidosis pectinatoides Jaschhof, 2013

Material

CZECH REPUBLIC: 1 ♂, Bohemia, Šumava Mts, Rokytská slat', 24 Jun.–28 Jul. 2000, MT, M. Barták and Š. Kubík leg. (TSPC).

Distribution

Only recently described from Sweden, but probably intermixed with *M. pectinata* Mamaev, 1966 by previous authors and thus more widespread (Jaschhof & Jaschhof 2013). The first record of a species of *Monepidosis* in CZ.

Neocolpodia Mamaev, 1964

Neocolpodia gukasiani (Mamaev, 1990)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Bílé Karpaty Mts, Kladénka, 3 Jun. 2008, MT, J. Ježek leg. (SDEI).

Distribution

Previously known from Siberian Russia and Sweden (Gagné & Jaschhof 2014). New to central Europe including CZ.

Panelusia Jaschhof, 2013

Panelusia albimanooides Jaschhof, 2013

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 2 Aug.–28 Sep. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 2 ♂♂, Moravia and Silesia, Chvalíkovice, ex *Phalaris arundinacea*, adults emerged 20 Aug.–19 Sept. 2008, J. Roháček leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Havrania dolina, 1 Oct. 2015, T. Sikora leg. (TSPC); 2 ♂♂, Poľana BR, Hrončecký grúň NNR, 29 May–23 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Muránská planina NP, Šiance, 4 Sep.–26 Oct. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Muránská planina NP, Muránská Lehota, 5 Sep.–23 Oct. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

A widespread Palearctic species (Jaschhof & Jaschhof 2013). Two males from CZ were reared from reed canary grass, *Phalaris arundinacea* (see above). New to CZ and SK.

Panelusia aurantiaca (Panelius, 1965)

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Studňa, 4 Sep.–10 Oct. 2014, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to SK.

Parepidosis Kieffer, 1913

Parepidosis arcuata Mamaev, 1964

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Podyjí NP, Čížovský rybník, 26 Jun.–24 Jul. 2001, MT, M. Barták and Š. Kubík leg. (TSPC).

SLOVAK REPUBLIC: 3 ♂♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček and J. Ševčík (TSPC).

Distribution

Widely distributed in Europe, also occurring in Uzbekistan (Gagné & Jaschhof 2014). New to CZ and SK.

Parepidosis planistylata Jaschhof, 2013

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 21 Jun.–5 Oct. 2004, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Recently described from Sweden (Jaschhof & Jaschhof 2013). New to CZ.

Parepidosis venustior (Kieffer, 1901)

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrončecký grúň NNR, 10 Aug.–9 Oct. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to SK.

Porricondyla Rondani, 1840

Porricondyla colpodioides Mamaev, 1963

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 21 Jul.–5 Sep. 2004, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Moravia and Silesia, Bílé Karpaty Mts, NR Kútky, MT, 26 Jun. 2008 (TSPC); 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Palearctic in distribution (Gagné & Jaschhof 2014). New to CZ.

Porricondyla errabunda Mamaev, 2001

Material

CZECH REPUBLIC: 1 ♂, Bohemia, Šumava Mts, Rokytská slat', 24 Jun.–28 Aug. 2000, MT, M. Barták and Š. Kubík leg. (TSPC); 2 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, Rejvíz NNR, 2 Aug.–28 Sep. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously found to occur in western Siberia and Sweden (Gagné & Jaschhof 2014). New to central Europe including CZ.

Porricondyla microgona Jaschhof, 2013

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Fabova hoľa NR, 16 Jun.–25 Aug. 2009, MT, J. Ševčík leg. (SDEI).

Distribution

Recently described from Sweden (Gagné & Jaschhof 2014). New to central Europe including SK.

Porricondyla neglecta Mamaev, 1965

Material

SLOVAK REPUBLIC: 1 ♂, Muránská planina NP, Kučalach, 4 Sep. 2014, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Known from several European countries (Gagné & Jaschhof 2014), including CZ (see Skuhravá 1994). New to SK.

Porricondyla nigripennis (Meigen, 1830)

Material

CZECH REPUBLIC: 5 ♂♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 4 Sep. 2015, SW, T. Sikora and J. Ševčík leg. (TSPC); 1 ♀, Moravia and Silesia, Bílé Karpaty Mts, Kladénka, 3 Jun. 2008, MT, J. Ježek leg. (SDEI); 1 ♂, Moravia and Silesia, Podyjí NP, Ledové sluje, 26 Jun.–31 Jul. 2002, MT, M. Barták and Š. Kubík leg. (TSPC).

SLOVAK REPUBLIC: 5 ♂♂, 1 ♀, Muránská planina NP, Hrdzavá dolina, 1 May–26 Jul. 2010, MT, J. Ševčík leg. (SDEI); 2 ♂♂, same locality, 14 May 2009, SW, J. Ševčík leg. (SDEI); 1 ♂, Muránská planina NP, Kučalach, 14 Jul.–3 Sep. 2014, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

A very common Holarctic species (Gagné & Jaschhof 2014). These are the first records from Moravia and Silesia (CZ).

Porricondyla tetraschistica Mamaev, 1988

Material

SLOVAK REPUBLIC: 6 ♂♂, Muránská planina NP, Šiance, 4 Sep.–26 Oct. 2012, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

A rarely collected species previously known only from Sweden and the Near East (Gagné & Jaschhof 2014). New to central Europe including SK.

Rostellatyla Jaschhof, 2013

Rostellatyla rostellata (Panelius, 1965)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 4 Sep. 2015, SW, J. Ševčík and T. Sikora leg. (TSPC).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to CZ.

Serratyla Jaschhof, 2013

Serratyla pubescens (Walker, 1856)

Material

CZECH REPUBLIC: 2 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

SLOVAK REPUBLIC: 2 ♂♂, Poľana BR, Hrončecký grúň NNR, 24 May–23 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Muránská planina NP, Fabova hoľa NR, 16 Jun.–25 Aug. 2009, MT, J. Ševčík leg. (SDEI).

Distribution

Widely distributed in Europe (Gagné & Jaschhof 2014). New to CZ and SK.

Schistoneurus Mamaev, 1964

Schistoneurus irregularis Mamaev, 1964

Material

CZECH REPUBLIC: 1 ♂, Bohemia, Šumava Mts, Nová Hůrka, 13 May–24 Jun. 2000, MT, M. Barták and Š. Kubík leg. (TSPC); 4 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously recorded from northern and eastern Europe (Gagné & Jaschhof 2014). New to central Europe including CZ and SK.

Spungisomyia Mamaev & Zaitzev, 1996

Spungisomyia fenestrata Jaschhof, 2013

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hruby Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, MT, 9–26 Jun. 2006, J. Roháček and J. Ševčík leg. (SDEI).

Distribution

Recently described from Sweden (Gagné & Jaschhof 2014). New to central Europe including CZ.

Spungisomyia media (Spungis, 1981)

Material

SLOVAK REPUBLIC: 1 ♂, Poľana BR, Hrončecký grúň NNR, 24 May–23 Jun. 2005, MT, J. Roháček and J. Ševčík leg. (TSPC); 1 ♂, Poľana BR, Hrochoť, Beňova dolina, 24 May–11 Jul. 2007, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Palearctic in distribution (Gagné & Jaschhof 2014). New to SK.

Tetraneuromyia Mamaev, 1964

Tetraneuromyia hirticornis (Zetterstedt, 1850)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Šilheřovice, Černý les II. NR, 23 Oct. 2015, SW, J. Ševčík leg. (TSPC).

SLOVAK REPUBLIC: 2 ♂♂, Muránská planina NP, Havrania dolina, 1 Oct. 2015, SW, J. Ševčík leg. (TSPC).

Distribution

The most common and widely distributed species of *Tetraneuromyia* Mamaev, 1964 in Europe (Gagné & Jaschhof 2014). New to CZ and SK.

Tetraneuromyia lamellata Spungis, 1987

Material

CZECH REPUBLIC: 1 ♂, Bohemia, Šumava Mts, Rokytská slat', 24 Jun.–28 Jul. 2000, MT, M. Barták and Š. Kubík leg. (TSPC); 3 ♂♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known from Sweden, Latvia and European Russia (Gagné & Jaschhof 2014). New to central Europe including CZ.

Tetraneuromyia lenticularis (Spungis, 1987)

Material

CZECH REPUBLIC: 1 ♂, Moravia and Silesia, Hrubý Jeseník Mts, 1182 m, Velká Kotlina glacial cirque, 26 Jun.–25 Jul. 2006, MT, J. Roháček and J. Ševčík leg. (TSPC).

Distribution

Previously known only from Sweden and Latvia (Gagné & Jaschhof 2014). New to central Europe including CZ.

Discussion

Only 44 species of the fungivorous subfamilies have previously been recorded from all of the Czech Republic and Slovakia (Skuhravá & Košel 1995; Jaschhof 1998, 2015; Mantič *et al.* 2015; Skuhravá 1997, 2004, 2009; Ševčík 2010; Tóth & Lukáš 2004). In this paper, a total of 49 species are for the first time reported from the Czech Republic and 33 species from Slovakia. Thirty-nine species are new to the fauna of central Europe. Many of the newly recorded species have only recently been discovered and described from Sweden (see Jaschhof & Jaschhof 2013). The level of current knowledge of the mycophagous gall midge fauna in the Czech Republic and Slovakia is difficult to estimate, but must certainly be considered as preliminary. Based on species inventories in other well-wooded European countries, such as Germany (Jaschhof 2009) and Sweden (Jaschhof & Jaschhof 2009, 2013, 2015), we estimate the number of species of the fungivorous subfamilies in the Czech and Slovak Republics at more than 400, meaning we are at the very beginning with our efforts.

Most of the species found during our survey belong, as far as is known, to a group of boreo-montane and/or silvicolous species, although several localities sampled represent rather thermophilous forests or forest steppes, especially in the Podyjí and Muránska planina national parks. Recent results regarding other families of Bibionomorpha (e.g., Mantič *et al.* 2015) indicate a distribution pattern in which principally Mediterranean species extend to central Europe, but no such species of Cecidomyiidae were found during this study.

Our inventory of fungivorous Cecidomyiidae in the Czech and Slovak Republics will be continued, with a focus on those localities that in the past proved to be particularly rich in species. Collecting techniques other than Malaise trapping will be tested, including those providing biological information (cf. Ševčík & Roháček 2008).

Our results add to the pool of data that are necessary for meaningful biogeographical and ecological analyses of these gall midges (cf. Jaschhof & Jaschhof 2009). Considering that almost all the insect samples interpreted here have been collected in nature reserves and national parks, our data are useful for highlighting the extraordinary natural richness of those areas, and also in supporting decision-making processes in nature conservation in the future.

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References

- Barták M. & Kubík Š. 2005. *Diptera of Podyjí National Park and its Environs*. Česká zemědělská univerzita, Praha.
- Bílý S. 2015. K významnému životnímu jubileu RNDr. Marcely Skuhrové, CSc. [The important jubilee of RNDr.] Marcela Skuhrová, CSc. *Klapalekiana* 51: 123–145.
- Gagné R.J. & Jaschhof M. 2014. A Catalog of the Cecidomyiidae (Diptera) of the World. 3rd Edition. Digital version 2. Available from https://www.ars.usda.gov/ARSTUserFiles/80420580/Gagne_2014_World_Cecidomyiidae_Catalog_3rd_Edition.pdf [accessed 28 Nov. 2015].
- Jaschhof M. 1998. Revision der “Lestremiinae” (Diptera, Cecidomyiidae) der Holarktis. *Studia dipterologica Supplement* 4: 1–552.
- Jaschhof M. 2009. Eine aktualisierte Artenliste der Holzmücken Deutschlands, unter besonderer Berücksichtigung der Fauna Bayerns (Insecta: Diptera: Cecidomyiidae: Lestremiinae). *Spixiana* 32 (1): 139–151. Available from http://www.pfeil-verlag.de/04biol/pdf/spix32_1_33.pdf [accessed 15 Dec. 2015].
- Jaschhof M. 2015. Morphological re-examination reveals that *Campylomyza serrata* Jaschhof, 1998 is a complex of five cryptic species (Diptera: Cecidomyiidae, Micromyinae). *Contributions to Entomology: Beiträge zur Entomologie* 65: 373–381.
- Jaschhof M. 2016. A review of world Diallactiini (Diptera, Cecidomyiidae, Winnertziinae), with description of six new genera and seventeen new species. *Zootaxa* 4127 (2): 201–244. <https://doi.org/10.11646/zootaxa.4127.2.1>
- Jaschhof M. & Jaschhof C. 2009. The wood midges (Diptera: Cecidomyiidae) of Fennoscandia and Denmark. *Studia dipterologica Supplement* 18: 1–333.
- Jaschhof M. & Jaschhof C. 2013. The Porricondylinae (Diptera: Cecidomyiidae) of Sweden, with notes on extralimital species. *Studia dipterologica Supplement* 20: 1–392.
- Jaschhof M. & Jaschhof C. 2015. New species and new distribution records of Lestremiinae, Micromyinae and Porricondylinae (Diptera: Cecidomyiidae) in Sweden. *Zootaxa* 3973 (1): 159–174. <https://doi.org/10.11646/zootaxa.3973.1.6>
- Kubík Š. 2001. The species of the family Chloropidae (Diptera) of the Rokytecká, Novohůrecká and Zhůrské peat-bogs in the Šumava Mts (Czech Republic). *Acta Universitatis Carolinae Biologica* 45: 79–88.
- Mantič M., Sikora T., Roháček J. & Ševčík J. 2015. New and interesting records of Bibionomorpha from the Czech and Slovak Republics. *Acta Musei Silesiae, Scientiae Naturales* 64: 141–149. <https://doi.org/10.1515/cszma-2015-0020>
- Roháček J. & Ševčík J. 2009. *Diptera of the Pol'ana Protected Landscape Area - Biosphere Reserve (Central Slovakia)*. SNC SR, Administration of the PLA–BR Pol'ana, Zvolen.
- Ševčík J. 2010. *Czech and Slovak Diptera Associated with Fungi*. Slezské zemské muzeum, Opava.
- Ševčík J. & Kurina O. 2011. Fungus gnats (Diptera: Sciaroidea) of the Gemer region (central Slovakia): Part 1 – Bolitophilidae, Diadocidiidae, Ditomyiidae and Keroplatidae. *Časopis Slezského zemského Muzea Opava (A)* 60: 11–23.

- Ševčík J. & Roháček J. 2008. Fungus gnats (Diptera: Mycetophilidae and Keroplastidae) reared from grass and sedge tussocks in the Czech Republic. *Časopis Slezského zemského Muzea Opava (A)* 57: 175–178.
- Ševčík J., Kaspřák D., Mantič M., Ševčíková T. & Tóthová A. 2014. Molecular phylogeny of the fungus gnat family Diadocidiidae and its position within the infraorder Bibionomorpha (Diptera). *Zoologica Scripta* 43 (4): 370–378. <https://doi.org/10.1111/zsc.12059>
- Ševčík J., Kaspřák D., Mantič M., Fitzgerald S., Ševčíková T., Tóthová A. & Jaschhof M. 2016. Molecular phylogeny of the megadiverse insect infraorder Bibionomorpha sensu lato (Diptera). *PeerJ* 4: e2563; <https://doi.org/10.7717/peerj.2563>
- Skuhrová M. 1991. Gallmücken der Slowakei (Cecidomyiidae, Diptera). VI. Die Zoogeographie der Gallmücken. *Zborník Slovenského Národného Múzea, Prírodné Vedy* 37: 85–178.
- Skuhrová M. 1994. The zoogeography of gall midges (Diptera: Cecidomyiidae) of the Czech Republic II. Review of gall midge species including zoogeographical diagnoses. *Acta Societatis Zoologicae Bohemicae* 58: 79–126.
- Skuhrová M. 1997. Faunistic records from the Czech Republic. 67. Diptera: Cecidomyiidae. *Klapalekiana* 23: 119–120.
- Skuhrová M. 2004. Faunistic records from the Czech and Slovak Republics: Diptera. Cecidomyiidae. *Dipterologica boemoslovaca* 11: 324–331.
- Skuhrová M. 2009. New records and name changes in Cecidomyiidae (Diptera) of the Czech Republic and Slovakia with comments on their occurrence. *Folia faunistica Slovaca* 14: 131–137. Available from <http://www.ffs.sk/pdf/FFS-14-22-Skuhrava-2009.pdf> [accessed 20 Dec. 2015].
- Skuhrová M. & Košel V. 1995. Gall midges (Diptera: Cecidomyiidae) from the Western Carpathians caves (Slovakia). *Dipterologica Bohemoslovaca* 7: 165–174.
- Tóth P. & Lukáš J. 2004. First record of *Campylomyza flavipes* (Diptera: Cecidomyiidae) from Slovakia. *Biologia* 59: 282.
- Wiegmann B.M., Trautwein M.D., Winkler I.S., Barr N.B., Kim J.W., Lambkin C., Bertone M.A., Cassel B.K., Bayless K.M., Heimberg A.M., Wheeler B.M., Peterson K.J., Pape T., Sinclair B.J., Skevington J.H., Blagoderov V., Caravas J., Kutty S.N., Schmidt-Ott U., Kampmeier G.E., Thompson F.C., Grimaldi D.A., Beckenbach A.T., Courtney G.W., Friedrich M., Meier R. & Yeates D.K. 2011. Episodic radiations in the fly tree of life. *Proceedings of the National Academy of Sciences* 108 (14): 5690–5695. <https://doi.org/10.1073/pnas.1012675108>

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