

Updated checklist of the Scatopsidae Newman, 1834 (Diptera) of the Czech Republic and Slovakia

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Abstract

The present checklist updates the one published in the *Checklist of Diptera of the Czech Republic and Slovakia, electronic version 2*, 2009. Since then, the number of species has increased by two in the Czech Republic (none in Bohemia and two in Moravia) and by three in Slovakia. The present list includes 48 species from the Czech Republic (41 from Bohemia and 44 from Moravia) and 46 from Slovakia. Relevant faunistic and systematic papers are listed.

Key words: dung midges, minute black scavenger flies, biodiversity, Central Europe, taxonomy

Introduction

The Scatopsidae are a medium-sized but still inadequately known family of derived nematocerous Diptera. Adults are minute to small midges ranging from 0.5 to 4.0 mm in length, generally dark in colour, sometimes more or less marked with yellow. Body rather strongly built, often quite elongated, with parallel-sided abdomen. Eyes holoptic, forming a characteristic supraantennal bridge. Antenna comparatively short, composed of two basal segments and a flagellum of 5–10 flagellomeres that are generally wider than long. Wing venation reduced, generally only anterior veins pigmented. Larvae flattened, with a complete cephalic capsule, peripneustic. All known larvae are saprophagous, living in a wide variety of media (rotten plants and fruits, rotten wood, under decaying bark of dead trees, soil, leaf litter, fungi, dung, etc.) (Haenni & Vaillant 1994). The adults may be found in nearly all kinds of biotopes, but more frequently in open, fresh and marshy areas.

The world fauna of Scatopsidae comprises some 380 species (Haenni & Amorim 2017), of which about 105 species in 22 genera are known in Europe (Haenni 2013a and unpubl. data).

The male and female genital characters enable safe identifications to be made. A key to the Palaearctic genera (both larvae and adults) may be found in Haenni (1997), where references to papers for identification to species level are also included. The former checklist (Haenni 2009b) included 46 species from the Czech Republic (41 from Bohemia and 42 from Moravia) and 43 from Slovakia.

Material and methods

The classification used here follows Amorim (1994) and Chandler (1998), while the nomenclature follows Haenni (2013a). The format of the checklist itself sticks as much as possible to the one in Haenni (2009b).

Results and Discussion

55 species are included in the present checklist: 48 from the Czech Republic (41 from Bohemia and 44 from Moravia)

and 46 from Slovakia. The preceding electronic version of checklist (Haenni 2009a) was based upon the printed version of checklist (Martinovský 1997b), which was based itself mainly upon the important papers by Martinovský (1997a) for the Czech Republic and by Kozánek & Roller (1997) for Slovakia, complemented by a series of faunistic papers (Haenni & Barták 2000, 2006; Haenni et al. 2005; Martinovský 1998). Since the preceding electronic version of checklist (Haenni 2009a) the number of species has increased by 2 in the Czech Republic (none in Bohemia and 2 in Moravia) and by 3 in Slovakia. The few additional records may be found in the following recent revisional and faunistic papers (Ševčík 2010; Haenni 2013b; Haenni & Martinovský 2014; Haenni & Roháček 2021; Haenni et al. 2021; Oboňa et al. 2021; Beuk et al. 2023). The species richness of the scatopsid fauna is rather well known in the Czech Republic and in Slovakia, but the number of species will continue to grow as some new species are still awaiting description.

Checklist

New records are in bold, with relevant notes to be found at the end of the list.

ASPISTINAE

Aspistes Meigen, 1818

berolinensis Meigen, 1818 CZ (B M) SK

ECTAETIINAE

Ectaetia Enderlein, 1912

clavipes (Loew, 1846) CZ (B M) SK

PSECTROSCIARINAE

Anapausis Enderlein, 1912

albohalterata Duda, 1928 CZ (B M) SK

dufourella Haenni, 1984 CZ (M) SK

floricola Chandler, 1999 CZ (B M) **SK**¹

haemorrhoidalis Duda, 1928 CZ (B M) SK

<i>helvetica</i> Haenni, 1984	CZ (B M) SK	<i>nigra</i> (Meigen, 1804)	CZ (B M) SK
<i>inermis</i> (Ruthé, 1831)	CZ (B M) SK	<i>pulicaria</i> (Loew, 1846)	CZ (B M) SK
<i>nigripes</i> (Zetterstedt, 1860)	CZ (B M)		
<i>rectinervis</i> Duda, 1928	CZ (B M) SK	<i>Scatopse</i> Geoffroy, 1762	
<i>rohaceki</i> Martinovský, 1997	SK	<i>lapponica</i> Duda, 1928	CZ (B) SK
<i>solmatina</i> Haenni & Martinovský, 2014	CZ (M ²) SK ²	<i>notata</i> (Linnaeus, 1758)	CZ (B M) SK
<i>soluta</i> (Loew, 1846)	CZ (B M) SK		
<i>talpae</i> (Verrall, 1912)	CZ (B M) SK		
SCATOPSINAE		SWAMMERDAMELLINI	
COLOBOSTEMATINI		<i>Coboldia</i> Melander, 1916	
<i>Colobostema</i> Enderlein, 1926		<i>fuscipes</i> (Meigen, 1830)	CZ (B M) SK
<i>auberti</i> Haenni, 2013	SK ³	<i>Rhexoza</i> Enderlein, 1936	
<i>infumatum</i> (Haliday, 1833)	CZ (B)	<i>subnitens</i> (Verrall, 1886)	CZ (B M) SK
<i>nigripenne</i> (Meigen, 1830)	CZ (B M) SK	<i>Swammerdamella</i> Enderlein, 1912	
<i>obscuritarse</i> (Strobl, 1898)	CZ (M)	<i>acuta</i> Cook, 1956	CZ (B M) SK
<i>triste</i> (Zetterstedt, 1850)	CZ (B M) SK	<i>adecotris</i> Cook, 1972	CZ (B M) SK
<i>Efcookella</i> Haenni, 1998		<i>brevicornis</i> (Meigen, 1830)	CZ (B M) SK
<i>albitarsis</i> (Zetterstedt, 1850)	CZ (B M) SK	<i>genypodis</i> Cook, 1972	SK
<i>Ferneiella</i> Cook, 1974		<i>jindrichi</i> Haenni, 2021	CZ (M ⁴)
<i>brevifurca</i> (Enderlein, 1912)	CZ (B)	<i>pediculata</i> (Duda, 1928)	SK
<i>incompleta</i> (Verrall, 1886)	CZ (B M) SK		
<i>Holoplaga</i> Enderlein, 1912		Notes:	
<i>bullata</i> (Edwards, 1925)	CZ (B M) SK	¹ First record from Slovakia published by Haenni et al. (2021).	
<i>lucifuga</i> (Loew, 1870)	CZ (B M) SK	² Described from Switzerland, Czech Republic (Moravia) and Slovakia by Haenni & Martinovský (2014)	
<i>richardsi</i> (Edwards, 1934)	CZ (M) SK	³ Described from Switzerland, Slovakia and other countries by Haenni (2013b)	
<i>transversalis</i> (Loew, 1846)	CZ (B M) SK	⁴ Described from Czech Republic (Moravia) in Haenni & Roháček (2021)	
RHEGMOCLEMATINI		Acknowledgements	
<i>Thripomorpha</i> Enderlein, 1905		The author thanks Libor Dvořák (Mariánské Lázně, Czech Republic) for initiating this update, Jozef Oboňa (University of Prešov, Slovakia) for his kind help in improving the ms and two anonymous referees for useful comments to the ms.	
<i>bifida</i> (Zilahy-Sebess, 1956)	CZ (B M) SK	References	
<i>freyi</i> (Cook, 1969)	CZ (B M)	Amorim DS. 1994. A new suprageneric classification of the Scatopsidae (Diptera: Psychodomorpha). <i>Iheringia, Série Zooogia</i> 77: 107–112.	
<i>haennii</i> Martinovský, 1997	SK	Beuk PLT, Barlog M, Csanády A, Dvořáková K, Dvořák L, Haenni JP, Ježek J, Manko P, Mlynárová L, Tej B, Oboňa J. 2023. Some Diptera records of National Nature Reserves Dreveník and Sivá Brada (Slovakia). <i>Acta Musei Silesiae Scientiae Naturales</i> 72: 45–60.	
<i>halteratum</i> (Meigen, 1838)	CZ (B M) SK	Chandler P. 1998. Scatopsidae. In: Chandler P, ed. <i>Checklists of Insects of the British Isles (New Series). Part 1. Diptera (Incorporating a List of Irish Diptera). Handbooks for the Identification of British Insects, Vol. 12</i> . London: Royal Entomological Society, 47–48.	
<i>paludicola</i> Enderlein, 1905	CZ (B M) SK	Haenni JP. 1997. Family Scatopsidae. In: Papp L, Darvas B, eds. <i>Contributions to a Manual of Palaearctic Diptera (with special reference to flies of economic importance). Volume 2. Nematocera and Lower Brachycera</i> . Budapest: Science Herald, 255–272.	
<i>verralli</i> (Edwards, 1934)	CZ (B M) SK	Haenni JP. 2009a. Scatopsidae Newman, 1834. [Accessed 17 September 2024]. In: Jedlička L, Stloukalová V, Kúdela M, eds. <i>Checklist of Diptera of the Czech Republic and Slovakia</i> , electronic version 2. Available from: http://www.edvis.sk/diptera2009/families/scatopsidae.htm	
SCATOPSINI		Haenni JP. 2009b. Scatopsidae. In: Roháček J, Ševčík J, eds. <i>Diptera of the Polana Protected Landscape Area - Biosphere Reserve (Central</i>	
<i>Apiloscatopse</i> Cook, 1974			
<i>filamentosa</i> (Duda, 1928)	CZ (M) SK		
<i>flavicollis</i> (Meigen, 1818)	CZ (B M) SK		
<i>flavocincta</i> (Duda, 1928)	CZ (B M)		
<i>gracilis</i> (Duda, 1928)	CZ (B M) SK		
<i>mattheyi</i> Haenni, 1981	CZ (M)		
<i>picea</i> (Meigen, 1818)	CZ (B M) SK		
<i>scutellata</i> (Loew, 1846)	CZ (B M) SK		
<i>styriaca</i> (Enderlein, 1926)	SK		
<i>Pharsoreichertella</i> Cook, 1974			
<i>hamifera</i> (Strobl, 1909)	CZ (B)		
<i>simplicinervis</i> (Duda, 1928)	SK		
<i>Reichertella</i> Enderlein, 1912			
<i>geniculata</i> (Zetterstedt, 1850)	CZ (B M) SK		

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