

**First records of *Phthiria gaedii* and *Systoechus gradatus* (Diptera: Bombyliidae)
from Slovakia**

**První nálezy *Phthiria gaedii* a *Systoechus gradatus* (Diptera: Bombyliidae)
na Slovensku**

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Diptera, Bombyliidae, *Phthiria gaedii*, *Systoechus gradatus*, faunistics, first records, Slovakia

Abstract. This paper presents the first records of the bee flies *Phthiria gaedii* Wiedemann in Meigen, 1820 and *Systoechus gradatus* (Wiedemann in Meigen, 1820) from Slovakia. The bionomics and distribution of the species are described briefly.

INTRODUCTION

Bee flies (Bombyliidae) are one of the largest families of the order Diptera, suborder Brachycera. More than 4500 species have been described worldwide (Evenhuis & Greathead 1999). 64 species are placed in the genus *Phthiria* Meigen, 1820 and 120 species in the genus *Systoechus* Loew, 1855. The genus *Phthiria* is distributed mostly in the Palaearctic (35 species) and Afrotropical (20 species) regions, the genus *Systoechus* in the Afrotropical (93 species), Palaearctic (20 species), Nearctic (5 species) and Oriental (4 species) regions (Evenhuis & Greathead 1999). Approximately 335 species of Bombyliidae occur in Europe (Greathead 2013), including 18 species in the genus *Phthiria* and 7 species in the genus *Systoechus*.

In the genus *Phthiria*, 4 species were listed from the Czech Republic (3 from Bohemia, 4 from Moravia) and 3 species from Slovakia; in the genus *Systoechus* 2 species were listed from the Czech Republic (1 from Bohemia, 2 from Moravia), and 1 species from Slovakia (Čelechovský 2011, 2013, Čelechovský & Bosák 2009).

MATERIAL AND METHODS

Research on bee flies was carried out in the south-western part of Slovakia. Material was collected from several localities. Adults were sampled using entomological nets. Bee flies were collected in flight and on flowers. The sweeping method was also used. Collected specimens were pinned, then identified and labeled according to the established protocols. The material is deposited in the author's collection. The distributions of species were taken from Evenhuis & Greathead (1999) and Greathead (2013).

RESULTS AND DISCUSSION

Phthiria gaedii Wiedemann in Meigen, 1820

Material examined. Slovakia occ., Děvínská Nová Ves, near Sandberg (7767), 48°12'5"N, 16°58'26"E, 230 m a.s.l., on flowers of *Scabiosa ochroleuca*, 1.viii.2015, 4 ♀♀, sweeping, A. Čelechovský leg., det. et coll.

Distribution. Palaearctic species (Evenhuis & Greathead 1999). Recorded from Europe, the Near East and North Africa. In Europe known from Austria, Bulgaria, Corsica, Croatia, Cyprus, Czech Republic, France, Greece, Italy, Macedonia, Romania, Russia, Sardinia, Spain and Ukraine (Evenhuis & Greathead 1999, Greathead 2013). In the Czech Republic, known only from Pálava (Bosák 1998). New species for Slovakia.

Systoechus gradatus (Wiedemann in Meigen, 1820)

Material examined. Slovakia occ., Šaštín-Stráže, Gazárka (7368), 48°37'24"N, 17°8'22"E, 200 m a.s.l., on flowers of *Thymus serpyllum*, 18.vii.2014, 1 ♂, 17.vii.2015, 1 ♂, both A. Čelechovský leg., det. et coll.

Distribution. Palaearctic species (Evenhuis & Greathead 1999). Distribution: Europe, Near East, East Palaearctic and North Africa. In Europe known from the Balearic Is., Bulgaria, Corsica, Croatia, Finland, France, Greece, Hungary, Italy, Portugal, Romania, Russia, Sicily, Spain and Switzerland (Greathead 2012). First recorded in the Czech Republic in 2012 near Hodonín (Čelechovský 2013). New species for Slovakia.

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SOUHRN

V článku jsou uvedeny nálezy dvou druhů z čeledi dlouhososkovití (Diptera: Bombyliidae) ze Slovenska. *Phthiria gaedii* Wiedemann in Meigen, 1820 je palearktický druh, známý z jižní a části střední Evropy, Blízkého Východu a severní Afriky. V České republice se vyskytuje pouze na Pálavě (Bosák 1998). Na Slovensku byl poprvé zaznamenán u Děvínské Nové Vsi v roce 2015. *Systoechus gradatus* (Wiedemann in Meigen, 1820) je také druh s palearktickým rozšířením, známý z Evropy, Blízkého Východu, východního Palearktu a severní Afriky. V ČR byl poprvé nalezen v roce 2012 u Hodonína (Čelechovský 2013). Na Slovensku byl v letech 2014–2015 zjištěn na území CHKO Záhorie u obce Šaštín-Stráže. Oba druhy jsou nové pro faunu dlouhososek (Diptera: Bombyliidae) Slovenska.