

## ***Docosia rohaceki* sp. n. and other interesting records of fungus gnats (*Diptera: Mycetophilidae*) from Poľana Biosphere Reserve (Central Slovakia)**

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*Docosia rohaceki* sp. n. and other interesting records of fungus gnats (*Diptera: Mycetophilidae*) from Poľana Biosphere Reserve (Central Slovakia). - Čas. Slez. Muz. Opava (A), 55: 131-134, 2006.

**Abstract:** Ten species of fungus gnats (*Diptera: Mycetophilidae*) are recorded from Poľana Biosphere Reserve of UNESCO as new for Slovakia, including *Docosia rohaceki* sp. n. The new species is related to *D. diutina* Plassmann, *D. juxtamontana* Chandler and *D. pannonica* Laštovka & Ševčík.

**Key words:** *Mycetophilidae*, *Sciaroidea*, *Diptera*, *Insecta*, faunistics, taxonomy, new species, new records, Slovakia.

### **Introduction**

More than 380 species of fungus gnats (*Diptera: Mycetophilidae*) are currently known from Slovakia (cf. Ševčík 2004, 2005) and at least 100 additional species are still to be expected there. In this paper, a further 10 species are recorded for the first time from Slovakia, as a result of the recent collecting activities in the Poľana Protected Landscape Area and Biosphere Reserve of UNESCO.

### **Abbreviations**

BR = Biosphere Reserve; NNR = National Nature Reserve; NR = Nature Reserve; 2/1 = 2 males and 1 female; MT = Malaise trap; SW = sweeping (using entomological net); JŠ = coll. J. Ševčík, Ostrava, Czech Republic; SMO = coll. Silesian museum, Opava, Czech Republic.

### **Survey of species**

#### ***Manota unifurcata* (Lundström, 1913)**

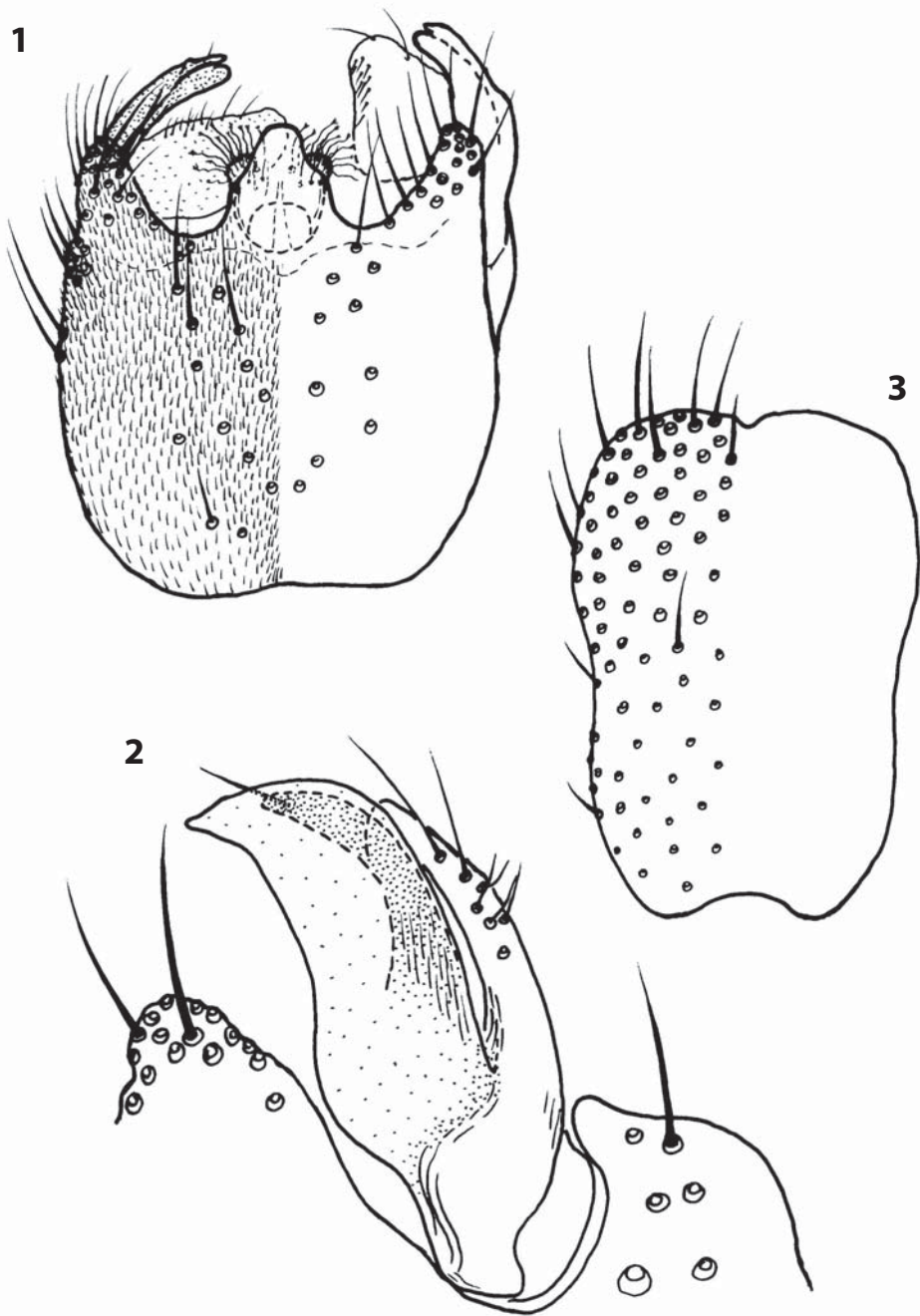
Material examined: SLOVAKIA, Poľana BR, Hrončecký grúň NNR, 13.7.-10.8.2005, 0/1, J. Roháček & J. Ševčík leg. (MT).

A rare European species, recorded as new for the Czech Republic by Ševčík (1999).

#### ***Docosia rohaceki* sp. n.**

**(Figs. 1-3)**

**Type material:** Holotype (male) – SLOVAKIA, Poľana BR, Hrončecký grúň NNR, 24.5.-23.6.2005, J. Roháček & J. Ševčík leg. (Malaise trap), coll. SMO. Paratypes: SLOVAKIA, Poľana BR, Hrončecký grúň NNR, 27.5.2005, 1/0, J. Roháček leg. (SW), 24.5.-23.6.2005, 2/2, J. Roháček & J. Ševčík leg. (MT), coll. JŠ & SMO.



**Figs. 1-3:** *Docosia rohaceki* sp. n., male terminalia; 1 – ventral view; 2 – detail of gonostylus (maximum width view); 3 – tergite 9.

## **Description**

**Male.** Head black with white bristling. Outer ocellus almost touching eye margin. Antenna dark brown, median flagellomeres almost twice as long as broad. Palpus basally brown, subapical palpomere dorsally yellow, apical palpomere all yellow. Thorax blackish brown, prothorax, scutum and scutellum covered with white setae, including scutellars. Laterotergite bare, shining. Length of wing 3.5 mm. Wing colourless, with costa, radial veins and r-m dark brown. Costa extends only 0.3 distance from  $R_5$  to  $M_1$ . Sc bare, ending in R. Ratio of R1 to r-m about 2. Haltere whitish yellow. Basal two thirds of both mid and hind coxa blackish brown, fore coxa brown on its basal half. Femora mainly yellowish, fore and mid femur ventrally dark on basal two thirds, hind femur darkened ventrally on basal fourth and at the tip. Tibiae slightly darkened on dorsal surface, tarsi yellowish brown. Coxae and femora with white bristling. Tibiae and tarsi with black setae and setulae, tibial spurs yellow. Dorsal surface of hind tibia with a relatively long seta in its basal fourth and with a small black spot at basal third. Abdomen blackish brown, with pale hairs. Terminalia as in figures 1-3. Medioventral processus of gonocoxites subequal in length to the lateral lobes. Ventral lobe of gonostylus relatively wide, apically hooked and pointed. Tergite 9 long, subrectangular, with a small median incision caudally.

**Female.** Similar to male, without the black dorsal spot on hind tibia.

**Etymology.** The new species is dedicated to my close colleague and friend Dr. Jindřich Roháček, an outstanding specialist on acalyptrate *Diptera*, who collected the type specimens.

**Distribution.** Slovakia.

**Remarks.** This species is similar to *D. diutina* Plassmann, 1996, *D. pannonica* Laštovka & Ševčík, 2006 and *Docosia juxtamontana* Chandler, 1994, all together forming a distinct group with similar characters (Chandler 1994, Laštovka & Ševčík 2006). It differs mainly in details on male terminalia, e.g. in the shape of the ventral lobe of gonostylus, the apical lobes of gonocoxites and tergite 9.

### ***Ectrepesthoneura bucera* Plassmann, 1980**

Material examined: SLOVAKIA, Poľana BR, Zadná Poľana NNR, 6.5.-3.7.2006, 2/1, J. Roháček & J. Ševčík leg. (MT).

A very rare species, hitherto known only from northern Europe.

### ***Saigusaia flaviventris* (Strobl, 1894)**

Material examined: SLOVAKIA, Poľana BR, Zadná Poľana NNR, 6.5.-3.7.2006, 3/0, J. Roháček & J. Ševčík leg. (MT).

A widely distributed Palearctic species.

### ***Mycetophila attonsa* (Laffoon, 1957)**

Material examined: SLOVAKIA, Poľana BR, Zadná Poľana NNR, 6.5.-3.7.2006, 2/1, J. Roháček & J. Ševčík leg. (MT).

A rare mountain Holarctic species, recorded as new for the Czech Republic by Ševčík (2001).

### ***Allodia westerholti* Caspers, 1980**

Material examined: SLOVAKIA, Poľana BR, Hrochoť env., Beňova dolina Valley, 8.5.2006, 1/0, J. Ševčík leg. (SW).

A rare Palearctic species.

### ***Allodiopsis korolevi* Zaitzev, 1982**

Material examined: SLOVAKIA, Poľana BR, Zadná Poľana NNR, 6.5.-3.7.2006, 1/0, J. Roháček & J. Ševčík leg. (MT).

This species belongs to the *Allodiopsis pseudodomestica* (Lackschewitz, 1937) group and it is very similar to *A. moravica* Ševčík, 2004, that is still known only from the Moravian holotype (Ševčík 2004).

***Anatella aquila* Zaitzev, 1989**

Material examined: SLOVAKIA, Poľana BR, Hrončecký grúň NNR, 13.7.-10.8.2005, 1/0, J. Roháček & J. Ševčík leg. (MT).

This species was described from the Altai Mts. and subsequently recorded from the Russian Far East and Karelia by Zaitzev (2003). The Slovak specimen apparently differs in details from the specimens figured by Zaitzev, but it may be due to intraspecific variability.

***Exechia parva* Lundström, 1909**

Material examined: SLOVAKIA, Poľana BR, Zadáň Poľana NNR, 6.5.-3.7.2006, 2/0, J. Roháček & J. Ševčík leg. (MT).

An uncommon Palearctic species.

***Rymosia lundstroemi* Dziedzicki, 1910**

Material examined: SLOVAKIA, Poľana BR, Hrončecký grúň NNR, 7.5.2006, 1/0, J. Ševčík leg. (SW).

This species was described from the Czech Republic and subsequently recorded from France and Switzerland.

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***Docosia rohaceki* sp. n. a jiné zajímavé nálezy bedlobytek (*Diptera: Mycetophilidae*) z Biosférické rezervace Poľana (střední Slovensko)**

Deset druhů bedlobytek (*Diptera: Mycetophilidae*) je zaznamenáno z Biosférické rezervace UNESCO Poľana jako nové pro Slovensko, včetně *Docosia rohaceki* sp. n. Nový druh je příbuzný druhům *D. diutina* Plassmann, *D. juxtamontana* Chandler a *D. pannonica* Laštovka & Ševčík.

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