

Interesting records of fungus gnats (Diptera: Mycetophilidae) from the Krkonoše Mts (Czech Republic)

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A b s t r a c t: Twelve species of Mycetophilidae are recorded from the Krkonoše Mts as new to Bohemia or the entire Czech Republic. The material was obtained in the years 2006–2009 mainly by means of Malaise traps. Three species are new to the Czech Republic: *Mycomya collini* Edwards, 1941, *Leia martinovskyi* Ševčík & Papp, 2003 and *Pseudexechia tuomikoskii* Kjærandsen, 2009.

K e y w o r d s: Insecta, Sciaroidea, Mycetophilidae, faunistics, Bohemia, Czech Republic, Europe

Introduction

The fauna of fungus gnats (Diptera: Mycetophilidae) of the Krkonoše Mts (= Giant Mts) has not yet been systematically studied. Occasional records are scattered mainly in the papers by Laštovka (1963, 1966, 1971, 1972a,b), Chandler (1995), Ševčík (2006), Papp & Ševčík (2007), and Ševčík & Chandler (2008). Unpublished data by the author suggest that the fauna of Mycetophilidae of this mountain range is very similar to that of the adjacent Jizerské hory Mts where 241 species have been found (Ševčík & Vonička 2008).

In the recent checklist (Ševčík & Košel 2009), 542 species of Mycetophilidae were reported from the Czech Republic (391 from Bohemia and 476 from Moravia & Silesia) and 445 from Slovakia. This contribution presents records of fungus gnats new to Bohemia (9 spp.) or to the entire Czech Republic (3 spp.), to be published prior to the new edition of the checklist.

Material and methods

The material was collected recently (2006 – 2009) by M. Barták and J. Vaněk by means of Malaise and yellow pan traps, identified by the author and deposited in his collection (JSOC).

Abbreviations and symbols: * = new records for the Czech Republic; NP = National Park; m = male; f = female; MT = Malaise trap.

Survey of species

MYCETOPOHILIDAE Mycomyinae

**Mycomya (Mycomya) collini* Edwards, 1941

A very rare European species, hitherto known from Great Britain, Germany, Switzerland, Scandinavia and Slovakia. This is the first record from the Czech Republic.

Locality: Bohemia, Krkonoše Mts, Bíner, 609 m, 16.vi.-7.vii.2009, 1 m, Pekelský potok, 550 m, 30.vi.-30.vii.2009, 1 m, both M. Barták & J. Vaněk leg. (MT).

Neoempheria winnertzi Edwards, 1913

An uncommon European species, within the Czech Republic only known from Moravia & Silesia (Ševčík 1999). First record for Bohemia.

Locality: Bohemia, Krkonoše Mts, Pekelský potok, 550 m, 30.vii.-18.viii.2009, 2 m, 1 f, M. Barták & J. Vaněk leg. (MT).

Sciophilinae

Acnemia falcata Zaitzev, 1982

A very rare Palaearctic species. In Europe it is known from Scandinavia, Bulgaria and one locality in the Czech Republic (Hrubý Jeseník Mts in Moravia & Silesia, cf. Ševčík 2001). First record for Bohemia.

Locality: Bohemia, Krkonoše Mts, Labská bouda (Fig. 1), 1300 m, 15.-28.viii.2008, 1 m, M. Barták & J. Vaněk leg. (MT).

Phthinia winnertzi Mik, 1869

A rather rare but widely distributed Palaearctic species. First record for Bohemia.

Locality: Bohemia, Krkonoše Mts, Dvorský potok, 1120 m, 18.-21.viii.2006, 1 m, M. Barták & J. Vaněk leg. (MT).

Gnoristinae

Saigusaia flaviventris (Strobl, 1894)

A widely distributed and locally common Palaearctic species. First record for Bohemia.

Locality: Bohemia, Krkonoše Mts, Dvorský potok, 1120 m, 15.vi.-7.vii.2006, 2 m, 1 f, M. Barták & J. Vaněk leg. (MT).

Leiinae

**Leia martinovskyi* Ševčík & Papp, 2003

A recently described species from the Tatra NP in Slovakia (Ševčík & Papp 2003). This is the first record from the Czech Republic and also the first record after the description.

Locality: Bohemia, Krkonoše Mts, Zrcadlový potok, 670 m, 7.vii.-4.viii.2009, 1 m, M. Barták & J. Vaněk leg. (MT).

Mycetophilinae

Mycetophilini

Sceptonia demejerei Bechev, 1997

A rare European species, within the Czech Republic hitherto known only from Podyjí NP (Ševčík 2004). This is the first record from Bohemia.

Locality: Bohemia, Krkonoše Mts, Bílé Labe (Fig. 2), 1250 m, 16.-30.viii.2007, 1 m, M. Barták & J. Vaněk leg. (MT).

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 and Sweden (Jakovlev et al. 2006, Kjærandsen et al. 2007). This is the first record from Bohemia.

Locality: Bohemia, Krkonoše Mts, Pekelský potok, 550 m, 31.viii.-13.ix.2009, 1 m, M. Barták & J. Vaněk leg. (MT).

Trichonta vulcani (Dziedzicki, 1889)

A rather rare Holarctic species. This is the first record from Bohemia.

Locality: Bohemia, Krkonoše Mts, Labský důl, 1040 m, 4.-29.viii.2006, 1 m, M. Barták & J. Vaněk leg. (MT).

Exechiini

Allodia (B.) pistillata (Lundström, 1911)

A rather rare Holarctic species, within the Czech Republic only known from Moravia & Silesia. First record for Bohemia.

Locality: Bohemia, Krkonoše Mts, Pekelský potok, 550 m, 30.vii.-18.viii.2009, 2 m, 1 f, M. Barták & J. Vaněk leg. (MT).

Exechia pseudocincta Strobl, 1909

A rather rare Palaearctic species. This is the first record from Bohemia.

Locality: Bohemia, Krkonoše Mts, Bíner, 609 m, 31.viii.-13.x.2008, 1 m, Sluneční stráň, 13.-21.ix.2007, 1 m, both M. Barták & J. Vaněk leg. (MT and pan trap).

**Pseudexechia tuomikoskii* Kjærandsen, 2009

A recently described European species (Kjærandsen 2009), very similar to *P. trisignata* (Edwards, 1913). As all the available Czech material previously identified as *P. trisignata* proved to be *P. tuomikoskii*, the occurrence of

true *P. trisignata* in the Czech Republic now appears questionable and should be confirmed in the future. This is the first record from the Czech Republic.

Locality: Bohemia, Krkonoše Mts, Pekelský potok, 550 m, 30.vi.-30.vii.2009, 1 m, J. Vaněk leg. (MT).

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Zajímavé nálezy bedlobytek (Diptera: Mycetophilidae) z Krkonoš (Česká republika).

Dvanáct druhů čeledi Mycetophilidae je zaznamenáno z Krkonoš jako nových pro Čechy nebo celou Českou republiku. Materiál byl získán v letech 2006–2009 především odchytem do Malaiseho pastí. Tři druhy jsou nové pro Českou republiku: *Mycomya collini* Edwards, 1941, *Leia martinovskyi* Ševčík & Papp, 2003 a *Pseudexechia tuomikoskii* Kjærandsen, 2009.



Figs. 1–2: 1 – Labský důl Valley with Labská bouda lodge on the left; 2 – Bílé Labe Valley. Photos by J. Ševčík.