

## New records of *Sciophila* Meigen from the Czech and Slovak Republics (Diptera: Mycetophilidae)

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New records of *Sciophila* Meigen from the Czech and Slovak Republics (Diptera: Mycetophilidae). – Čas. Slez. Muz. Opava, 54: 69-74, 2005.

**Abstract:** Eight species of *Sciophila* Meigen are recorded for the first time from the territory of the Czech Republic and 5 from Slovakia. Further 6 species are for the first time recorded from Moravia and Silesia. Photographs of the male terminalia of four rare species are also presented.

**Keywords:** *Sciaroidea*, fungus gnats, distribution, new records.

The genus *Sciophila* Meigen, 1818 comprises about 132 described species (Söli 1997). Holarctic species of *Sciophila* were revised by Zaitzev (1982). Czech and Slovak species of this genus have not yet been reviewed and the last checklist (Košel et al. 1997) comprises less than a half of the actual number of species known to occur in these countries.

In this paper, new records of *Sciophila* from the Czech Republic and from Slovakia are presented, including species new to particular major regions, i. e. Bohemia and Moravia & Silesia.

### Abbreviations:

Collections examined: JŠ – coll. Jan Ševčík, Czech Republic (private collection); MMB – coll. Moravian Museum, Brno, Czech Republic; SMO – coll. Silesian Museum, Opava, Czech Republic. Collecting methods: MT = Malaise trap, R = rearing from fungi, SW = sweep netting, YPT = yellow pan traps. CZ = Czech Republic, SK = Slovakia.

### SURVEY OF SPECIES

#### *Sciophila adamsi* Edwards, 1925

(Fig. 1)

**Material examined.** CZ: Bohemia, Šumava Mts., Nová Hůrka, peat-bog, 18.5.-15.6.1999, 3/0, M. Barták & Š. Kubík leg., MT (JŠ); Moravia & Silesia, Sřeň nr. Olomouc, oak forest, 26.5.1997, 1/1, J. Ševčík leg., YPT (JŠ).

**Distribution.** Western and northern Europe, Nearctic region. New for the Czech Republic.

#### *Sciophila antiqua* Chandler, 1987

(Fig. 2)

**Material examined.** CZ: Moravia & Silesia, Polanka nad Odrou, Blucherův les, floodplain forest, 3.4.1999, 1/0, J. Ševčík leg., SW (JŠ).

**Distribution.** Great Britain, Finland, Sweden (Chandler 2004). New for the Czech Republic and central Europe.

*Sciophila arizonensis* Zaitzev, 1982

(Fig. 3)

**Material examined.** CZ: Bohemia, Břlina, Chloumek hill, 420m, 23.9.-29.10.1998, 1/0, M. Barták leg., MT (JŠ); Moravia & Silesia, Podyjí National Park, Podmolí env., Liščí skála, forest-steppe, 24.7.-29.8.2001, 1/0, Vranov nad Dyjí, Zaděf Hamry, 16.10.-28.11.2002, 1/0, M. Barták & Š. Kubík leg., MT (JŠ).

**Distribution.** France, Switzerland (Chandler 2004), Nearctic region. New for the Czech Republic.

*Sciophila baltica* Zaitzev, 1982

*Sciophila tenuis* (Winnertz, 1863): Landrock (1913), Laštovka (1987)

**Material examined.** CZ: Moravia & Silesia, Hrubá Voda, 4.4.1972, 3/0, 19.8.1973, 2/0, J. Martinovský leg., SW (JŠ); Dolní Lomná env., Mionší NNR, fir-beech forest, 7.6.1998, 1/0; Hrubý Jeseník Mts., Jelení bučina NR, maple-beech forest, 900m, 21.7.1998, 1/0; Horní Lipová env., Ztracené údolí valley, 20.7.1998, 1/0, all J. Ševčík leg., SW; Moravskoslezské Beskydy Mts., Břlá env., 17.9.2000, 1/0, ex *Hydnum repandum*, J. Ševčík leg., R (JŠ).

**Distribution.** Widely distributed in Europe, the Near East and Ajerbaijan. New for the Czech Republic.

**Remarks.** Two specimens in Landrock's collection were identified by him as *Sciophila tenuis* (Winn.). The first is *S. baltica* and the second specimen has the terminalia destroyed and the identification was thus impossible.

*Sciophila fenestella* Curtis, 1837

**Material examined.** CZ: Bohemia, Vráž nr. Písek, damp meadow, 400m, 31.5.1994, 1/0, M. Barták leg., SW (JŠ); Moravia & Silesia, Hrubá Voda - Smilov, 17.5.1975, 1/0, 19.6.1976, 1/0; Mladeč nr. Olomouc, Třesín Hill, NE slope, 4.8.1999, 2/0, 10.9.1999, 1/0, all J. Martinovský leg., SW (JŠ); Šilheřovice, 18.8.1997, 1/0, 3.9.1997, 1/0, 26.9.1997, 1/0, 26.4.1998, 1/0; Dolní Lomná env., Mionší NNR (6468), 7.6.1998, 1/0, all J. Ševčík leg., SW (JŠ); Podyjí National Park, Terasy, 2.4.-3.5.2003, 1/0, M. Barták & Š. Kubík leg., MT (JŠ). SK: Považský Inovec Mts., Lúka env., 13.-20.9.1999, 1/0, M. Kozánek leg., MT (JŠ).

**Distribution.** Western and northern Europe, Nearctic region. From the Czech Republic (Bohemia) for the first time recorded by Martinovský & Barták (2000). New for Moravia & Silesia and for Slovakia.

*Sciophila fridolini* Stackelberg, 1943

**Material examined.** CZ: Moravia & Silesia, Hrubý Jeseník Mts., Velká Kotlina, glacial cirque, 5.9.1987, 1/0, J. Martinovský leg., SW (JŠ).

**Distribution.** A rare Holarctic species. From the Czech Republic (Bohemia) for the first time recorded by Chandler (1995). New for Moravia & Silesia.

*Sciophila geniculata* Zetterstedt, 1838

**Material examined.** CZ: Bohemia, Šumava Mts., Jezerní slať, peat-bog, 5.7.-5.8.1996, 2/0, M. Barták & J. Roháček leg., MT (JŠ), Nová Hůrka, peat-bog, 16.6.-22.7.1999, 7/0, M. Barták & Š. Kubík leg., MT (JŠ); Moravia & Silesia, Rejvíz, peat-bog, 26.6.-21.7.2004, 2/0, J. Roháček & J. Ševčík leg., MT (JŠ).

**Distribution.** Widely distributed in Europe. From the Czech Republic (Bohemia) for the first time recorded by Martinovský & Barták (2000). New for Moravia & Silesia.

*Sciophila jakutica* Blagoderov, 1992

**Material examined.** SK: Malé Karpaty Mts., Sološnica env., 7.7.1994, 1/0, M. Kozánek leg., MT (JŠ).

**Distribution.** Russia, Finland, Switzerland, East Palaearctic. From the Czech Republic for the first time recorded by Ševčík & Martinovský (1999). New species for Slovakia.

*Sciophila krysheni* Polevoi, 2001

**Material examined.** CZ: Bohemia, Blšina, Chloumek hill, 420 m, 25.6.-24.7.1998, 1/0, M. Barták leg., MT (JŠ).

**Distribution.** Finland and Great Britain (Chandler 2004). New species for the Czech Republic and central Europe.

*Sciophila limbatella* Zetterstedt, 1852

syn. *Sciophila robusta* (Winnertz, 1863): Landrock, 1913

**Material examined.** CZ: Moravia & Silesia, Komorní Lhotka (= Kameral Ellgoth), 8.6.1879, 1/0, A. Hetschko leg. (MMB).

**Distribution.** Widely distributed in Europe, the Near East and Eastern Palaearctic.

**Remarks.** This species was reported from the Czech Republic by Landrock (1913) on the basis of a single female collected in Břilovice near Brno. Laštovka (1987) listed this species as *Sciophila robusta* (Winnertz, 1863) from the former Czechoslovakia (Moravia) with a question mark and this species was completely omitted in the checklist by Košel et al. (1997). This is the first correct record from the Czech Republic.

*Sciophila modesta* Zaitzev, 1982

**Material examined.** SK: Považský Inovec Mts., Lúka env., Iheľník Nature Reserve, 25.4.-3.5.1999, 1/0, M. Kozánek leg., MT (JŠ).

**Distribution.** Estonia, Russia, Switzerland, Nearctic region. New for Slovakia.

*Sciophila nigronitida* Landrock, 1925

**Material examined.** CZ: Bohemia, Šumava Mts., „Kyselovský les“ peat-bog, 21.8.-27.9.1997, 1/0, M. Barták & J. Roháček leg., MT (JŠ); Soběslav env., Pověřice, 6.5.1998, J. Máca leg., SW (JŠ). SK: Pofana Mts., Snohy env., 10.5.1995, 1/0, M. Kozánek leg., MT (JŠ).

**Distribution.** Holarctic species, widely distributed in Europe. New species for both the Czech Republic and Slovakia.

*Sciophila nonnisilva* Hutson, 1979

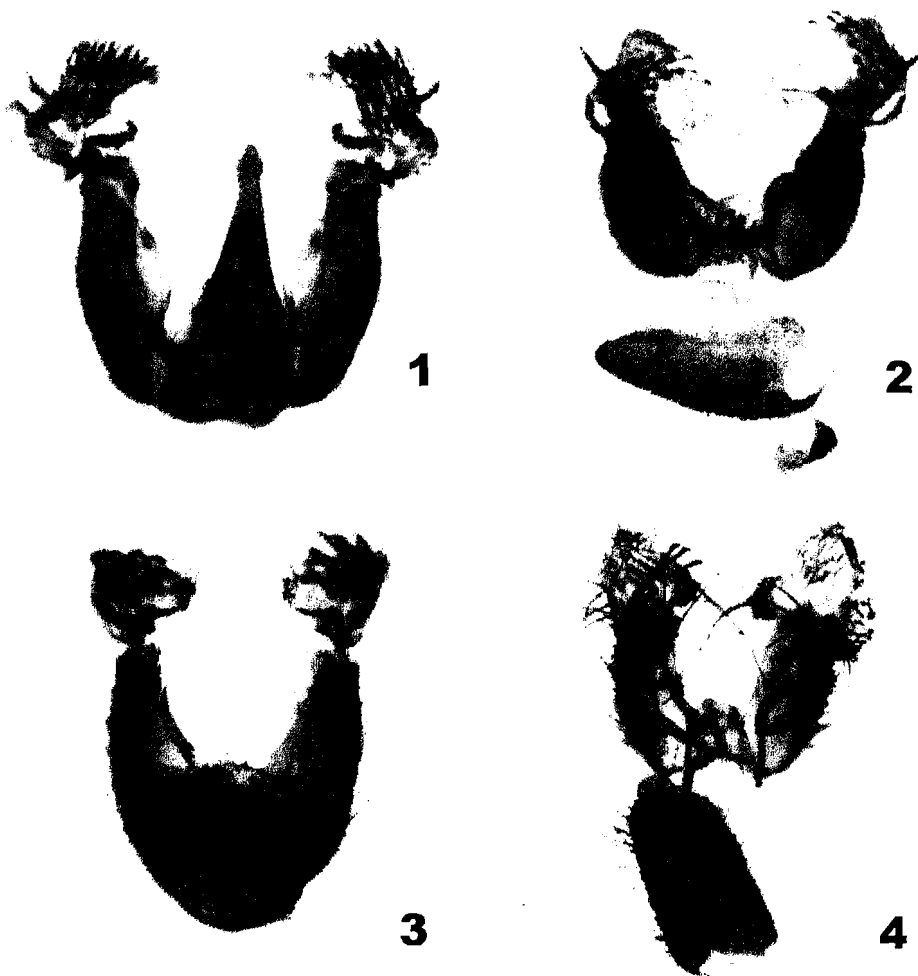
**Material examined.** CZ: Bohemia, Vysoké Chvojno, Buky National Nature Reserve, 12.5.-28.5.1998, 1/0, B. Mocek leg., MT (JŠ); Moravia & Silesia, Nové Sady nr. Olomouc, 16.vii.1972, 1/0, J. Martinovský leg., SW (JŠ); Podyjí National Park, Terasy, 2.4.-3.5.2003, 1/0, M. Barták & Š. Kubík leg., MT (JŠ).

**Distribution.** Holarctic species, widely distributed in Europe. From the Czech Republic (Bohemia) for the first time recorded by Martinovský & Barták (2000). New for Moravia & Silesia.

*Sciophila plurisetosa* Edwards, 1921

**Material examined.** CZ: Moravia & Silesia, Ostrava - Koblov, Landek National Nature Monument, 1.5.2002, 1/0, J. Ševčík leg., SW; Ostrava - Michálkovice, recultivated mine dump, 11.7.2003, 1/0, ex fungus *Hirneola auricula-judae*, J. Ševčík leg., R; Podyjí National Park, Horní Břečkov, 24.7.-29.8.2001, 1/0, Terasy, 2.4.-3.5.2003, 1/0, both M. Barták & Š. Kubík leg., MT (all JŠ).

**Distribution.** Great Britain and central Europe, Nearctic region. From the Czech Republic (Bohemia) for the first time recorded by Martinovský & Barták (2000). New for Moravia & Silesia and first rearing record.



Figs. 1-4: Male terminalia of *Sciophila* species. 1 – *S. adamsi*, 2 – *S. antiqua*, 3 – *S. arizonensis*, 4 – *S. pseudoflexuosa*.

*Sciophila pseudoflexuosa* Kurina, 1991

(Fig. 4)

**Material examined.** CZ: Moravia & Silesia, Brumovice - Pocheň, 24.7.1999, 2/1, ex *Lactarius vellereus*, J. Ševčík leg., R (JŠ); Mladeč nr. Olomouc, Třesín Hill, NE slope, 10.9.1999, 2/0, J. Martinovský leg., SW (JŠ); Moravskoslezské Beskydy Mts., Břlá env., 17.9.2000, 2/0, ex *Albatrellus ovinus*; Polanka nad Odrou, floodplain forest, 24.viii.1996, 1/0, 28.ix.1997, 1/0, SW; Studénka, pond dam, 9.9.1999, 3/4, ex *Lactarius acerrimus*, all J. Ševčík leg., R (JŠ).

**D i s t r i b u t i o n.** A recently described species, known from Estonia, Lithuania and Switzerland (Chandler 2004). New for the Czech Republic and new host records.

*Sciophila ochracea* Stephens in Walker, 1856

**Material examined.** SK: Bukovské vrchy Mts., Nová Sedlica, Stuzica National Nature Reserve, 14.8.2003, 1/0, J. Ševčík leg., SW; Považský Inovec Mts., Lúka env., 13.-20.9.1999, 1/0, M. Kozánek leg., MT (both JŠ).

**Distribution.** Denmark, Finland, France, Germany, Russia, East Palaearctic and Nearctic region. New for Slovakia.

*Sciophila rufa* Meigen, 1830

**Material examined.** CZ: Bohemia, Velké Popovice, 16.5.1992, 1/0, car net, M. Barták leg. (JŠ); Moravia & Silesia, Hrubá Voda nr. Olomouc, 5.7.1976, 2/0, J. Martinovský leg. (JŠ); Střeň nr. Olomouc, floodplain forest, 26.v.1997, 2/1, J. Ševčík leg., YPT (JŠ).

**Distribution.** Widely distributed in the Palaearctic region. From the Czech Republic (Bohemia) for the first time recorded by Martinovský & Barták (2000) and subsequently by Ševčík (2003). New for Moravia & Silesia.

*Sciophila silvatica* Plotnikova, 1962

**Material examined.** CZ: Bohemia, Břlina-Holibka, steppe, 24.7.-24.8.1998, 1/0, M. Barták leg., MT (JŠ); Moravia & Silesia, Podyjí National Park, Braitava-letohrádek, 26.3.-13.5.2002, 1/0, Podmolf env., Liščí skála, 29.4.-16.5.2001, 1/0, both M. Barták & Š. Kubík leg., MT (JŠ).

**Distribution.** Italy, Portugal, Switzerland, East Palaearctic (Chandler 2004). New for the Czech Republic.

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**Nové nálezy rodu *Sciophila* Meigen z České a Slovenské republiky (Diptera: Mycetophilidae)**

Osm druhů rodu *Sciophila* Meigen je poprvé zaznamenáno z území České republiky a 5 druhů ze Slovenska. Dalších 6 druhů je poprvé uvedeno z Moravy a Slezska. Připojeny jsou fotografie samčích terminálií čtyř vzácných druhů.

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