

A new species of *Dynatosoma*, fourteen new synonyms and other data on fungus gnats (Diptera: Mycetophilidae) from central and northern Europe

[Eine neue *Dynatosoma*-Art, vierzehn neue Synonyma und weitere Angaben zu Pilzmücken (Diptera: Mycetophilidae) aus Zentral- und Nordeuropa]

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Abstract

Twenty-four species of fungus gnats (Diptera: Mycetophilidae) are recorded from the Czech Republic, Slovakia, Germany, Switzerland, Austria and Sweden, with distribution and taxonomic notes. A new species, *Dynatosoma silesiacum* spec. nov., is described from the Hrubý Jeseník Mts. (Czech Republic). Fourteen new synonyms are proposed: *Monochona rufilatera* (WALKER, 1837) = *Acnemia weigandi* PLASSMANN, 1999 syn. nov.; *Dynatosoma abdominale* (STAIGER, 1840) = *Dynatosoma fulviventre* BUKOWSKI, 1949 syn. nov.; *Dynatosoma nobile* Loew, 1873 = *Dynatosoma surrecta* PLASSMANN, 1990 syn. nov.; *Dynatosoma rufescens* (ZETTLERSIEDT, 1838) = *Dynatosoma bukowskii* A. ZAITZEV, 1986 syn. nov.; *Mycetophila moravica* LANDROCK, 1925 = *Fungivora fusca* BUKOWSKI, 1949 syn. nov.; *Mycetophila pumila* WINNERTZ, 1863 = *Mycetophila unimaculata* BUKOWSKI, 1934 syn. nov.; *Zygomia semifusca* (MEIGEN, 1818) = *Mycetophila thaleri* PLASSMANN, 1986 syn. nov.; *Exechiopsis ligulata* (LUNDSTRÖM, 1913) = *Exechiopsis perita* PLASSMANN, 1986 syn. nov.; *Exechiopsis pulchella* (WINNERTZ, 1863) = *Exechiopsis aemula* PLASSMANN, 1984 syn. nov.; *Pseudobrachypeza helvetica* (WALKER, 1856) = *Pseudobrachypeza pseudohelvetica* PLASSMANN, 1984 syn. nov.; *Rymosia signatipes* (VAN DER WULP, 1859) = *Rymosia adventicia* PLASSMANN, 1986 syn. nov.; *Synplasta rufilatera* (EDWARDS, 1941) = *Brevicornu scherfi* PLASSMANN, 1999 syn. nov.; *Synplasta sintenisi* (LACKSCHWITZ, 1937) = *Allodia schoengeisingensis* PLASSMANN & SCHACHT, 1999 syn. nov.; *Tarnania fenestralis* (MEIGEN, 1818) = *Tarnania bavaria* PLASSMANN, 1980 syn. nov. Six species are for the first time recorded from the Czech Republic. 6 species from Slovakia and 3 species are recorded for the first time correctly from Sweden.

Key words

Mycetophilidae, taxonomy, faunistics, new species, new records, new synonyms, lectotype designations, Czech Republic, Slovakia, Europe

Zusammenfassung

Vierundzwanzig Arten von Pilzmücken (Diptera: Mycetophilidae) werden aus der Tschechischen Republik, der Slowakei, Deutschland, der Schweiz, Österreich und Schweden zuzüglich von Angaben zu ihrer Verbreitung und Taxonomie gemeldet. Eine neue Art, nämlich *Dynatosoma silesiacum* spec. nov., wird aus den Hrubý Jeseník Mts. (Tschechische Republik) beschrieben. Vierzehn neue Synonyme werden festgelegt: *Monochona rufilatera* (WALKER, 1837) = *Acnemia weigandi* PLASSMANN, 1999 syn. nov.; *Dynatosoma abdominale* (STAIGER, 1840) = *Dynatosoma fulviventre* BUKOWSKI, 1949 syn. nov.; *Dynatosoma nobile* Loew, 1873 = *Dynatosoma surrecta* PLASSMANN, 1990 syn. nov.; *Dynatosoma rufescens* (ZETTLERSIEDT, 1838) = *Dynatosoma bukowskii* A. ZAITZEV, 1986 syn. nov.; *Mycetophila moravica* LANDROCK, 1925 = *Fungivora fusca* BUKOWSKI, 1949 syn. nov.; *Mycetophila pumila* WINNERTZ, 1863 = *Mycetophila unimaculata* BUKOWSKI, 1934 syn. nov.; *Zygomia semifusca* (MEIGEN, 1818) = *Mycetophila thaleri* PLASSMANN, 1986 syn. nov.; *Exechiopsis ligulata* (LUNDSTRÖM, 1913) = *Exechiopsis perita* PLASSMANN, 1986 syn. nov.; *Exechiopsis pulchella* (WINNERTZ, 1863) = *Exechiopsis aemula* PLASSMANN, 1984 syn. nov.; *Pseudobrachypeza helvetica* (WALKER, 1856) = *Pseudobrachypeza pseudohelvetica* PLASSMANN, 1984 syn. nov.; *Rymosia signatipes* (VAN DER WULP, 1859) = *Rymosia adventicia* PLASSMANN, 1986 syn. nov.; *Synplasta rufilatera* (EDWARDS, 1941) = *Brevicornu scherfi* PLASSMANN, 1999 syn. nov.; *Synplasta sintenisi* (LACKSCHWITZ, 1937) = *Allodia schoengeisingensis* PLASSMANN & SCHACHT, 1999 syn. nov.;

Tarnania fenestralis (MEIGEN, 1818) = *Tarnania bavaria* PLASSMANN, 1980 **syn. nov.** Sechs Arten werden erstmals für die Fauna der Tschechischen Republik, 6 für die Slowakei und 3 Arten erstmals sicher für die Fauna Schwedens gemeldet.

Stichwörter Mycetophilidae, Taxonomie, Faunistik, neue Art, neue Meldungen, neue Synonyma, Lectotypenfestlegungen, Tschechische Republik, Slowakei, Europa

Introduction

Although fungus gnats (Diptera: Sciaroidea: Mycetophilidae) were extensively studied during the twentieth century by many specialists, there remain many taxonomic problems unsolved and many species undescribed or insufficiently known. This applies also to the well known and intensively studied central European fauna. According to recent check lists (KALLWEIT & PLASSMANN 1999, CHANDLER 1998a, KOŠEL et al. 1997) 574 species of the family Mycetophilidae were recorded from Germany, 440 from Switzerland, 347 from the Czech Republic and only 221 from Slovakia.

Studying the mycetophilid collection in the Zoologische Staatssammlung in München I found that several species described by Dr. Eberhard PLASSMANN are junior synonyms of previously described species and most of them are synonymized in this paper. The other species recorded here represent first records from the Czech Republic and/or Slovakia. Taxonomic notes on the genus *Dynatosoma* WINNERTZ, 1863 are also presented and a new species of the *thoracicum* species group is described.

Collections examined

- Š = Collection of Jan ŠEVCÍK, Ostrava, Czech Republic
MMB = Moravian Museum, Brno, Czech Republic
MZL = Museum of Zoology, Lund University, Sweden
PCH = Collection of Peter J. CHANDLER, Slough, England, U. K.
SMO = Silesian Museum, Opava, Czech Republic
ZMC = Zoological Museum, Copenhagen, Denmark
ZSM = Zoologische Staatssammlung, München, Germany

Systematic part

Subfamily Sciophilinae

Monoclona rufilatera (WALKER, 1837)

= *Acnemia weigandi* PLASSMANN, 1999 **syn. nov.**

Material examined. GERMANY: Bavaria, Oberpfalz, Rappersdorf bei Berching, Sulztal, Röhrmoos, 12.9.-5.10.1988, 1 ♂, S. BLANK leg. (holotype of *A. weigandi*, ZSM). CZECH REPUBLIC: Bohemia, Šumava Mts., Kyselovský les peat-bog, 18.7.-21.8.1997, 1 ♂, M. BARTÁK & J. ROHÁČEK leg. (JŠ). Moravia and Silesia, Dolní Věstonice, Mt. Děvín, 11.5.1997, 1 ♂; Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 4.9.-9.10.1999, 1 ♂; Krčmaň nr. Olomouc, 12.5.1997, 1 ♂; Ostrava-Svinov, Polanský les Nature Reserve, 7.5.2000, 1 ♂; Polanka nad Odrou, Blücherův les forest, 9.6.1997, 1 ♂; Radim nr. Krnov, 23.7.1998, 1 ♂; Stará Bělá nr. Ostrava, 10.6.1998, 1 ♂; Střeň, 4.6.1997, 1 ♂; Šilheřovice, Černý les Nature Reserve, 1.5.-17.5.1998, 3 ♂♂; Úvalno, 17.7.1997, 1 ♂ (all JŠ). SLOVAKIA: Malé Karpaty Mts., Devín env., Devínska Kobyla Nature Reserve, 24.-25.6.1994, 4 ♂♂, Sološnica env., 25.6.1994, 2 ♂♂; Považský Inovec Mts., Lúka nr. Piešťany env., 6.-13.9.1999, 24 ♂♂, all M. KOZÁNEK leg. (JŠ).

Remarks. A common Holarctic species. First records from Slovakia.

Subfamily Mycetophilinae

Dynatosoma abdominale (STAEGER, 1840)

(Fig. 1b, c)

= *Dynatosoma fulviventre* BUKOWSKI, 1949 **syn. nov.****Material examined.** DENMARK: 1 ♂ (holotype of *Dynatosoma abdominale*, ZMC).

SLOVAKIA: Považský Inovec Mts., Lúka nr. Piešťany env., Mt. Ihelník, 25.4.-3.5. 1999, 1 ♂, M. KOZÁNEK leg. (JŠ).

Remarks. This species is very similar to *D. nigromaculatum* LUNDSTRÖM, 1913, from which it differs by the yellowish abdomen and details on the male terminalia. The structures of the male terminalia of the specimens from Denmark and Slovakia differ slightly in the shape of a hook-like processus in the medial part of gonostylus (see Fig. 1 b, c) and several closely related species could be separated with further study of more specimens. Although the terminalia of the holotype of *D. fulviventre* are lost (ZAITZEV 1986a), it is possible to establish the above mentioned synonymy according to the original description and figure given by BUKOWSKI (1949). ZAITZEV (1986a) placed *D. fulviventre* in synonymy with *D. nigromaculatum*. First record from Slovakia.

Dynatosoma nigromaculatum LUNDSTRÖM, 1913

(Fig. 1a)

Material examined. CZECH REPUBLIC: Bohemia, Vysoké Chvojno, Buky Nature Reserve, 2.9.-10.9.1998, 2 ♂ ♂, B. MOCEK leg. (JŠ); Moravia and Silesia, Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 24.9.1998, 3 ♂ ♂, 2 ♀ ♀; Střeň, 1.-29.7.1997, 5 ♂ ♂; Šilheřovice, Černý les Nature Reserve, 1.-18.4.1999, 4 ♂ ♂, 1.5.-17.5.1998, 3 ♂ ♂, 1.-16.6.1998, 16 ♂ ♂; Zdětín nr. Prostějov, 7.8.1999, 1 ♂ (all J. ŠVČÍK leg., JŠ).

Remarks. The male terminalia of this species were figured e. g. by ZAITZEV (1986a). The inner processus of the medial part of gonostylus is illustrated here in Fig. 1a. CHANDLER (1998b) indicated a possible synonymy of *D. nigromaculatum* with *D. abdominale*, but subsequently corrected this opinion (see CHANDLER 2000).

Dynatosoma schachtii PLASSMANN, 1999

(Fig. 1d)

Material examined. SWEDEN: Abisko, 30.8.-6.9.1976, 1 ♂ (holotype, ZSM).

Remarks. Another species of the *abdominale* species group. It has dark brown abdomen with second and third segment somewhat lighter on sides and from below. The medial part of gonostylus is figured in Fig. 1d.

Dynatosoma nobile LOEW, 1873

= *Dynatosoma surrecta* PLASSMANN, 1990 **syn. nov.****Material examined.** SWEDEN: Abisko, 21.-28.7.1975, 1 ♂, K. MÜLLER leg. (holotype of *Dynatosoma surrecta*, ZSM).

Remark. This is the first correct record of this species from Sweden. The male terminalia of this species were figured by ZAITZEV (1986a).

Dynatosoma norwegiense ZAITZEV & OKLAND, 1994

Material examined. SLOVAKIA: Kremnické pohorie Mts., Turček env., 850 m, 24.6.1979, 1 ♂, J. ROHAČEK leg. (SMO).

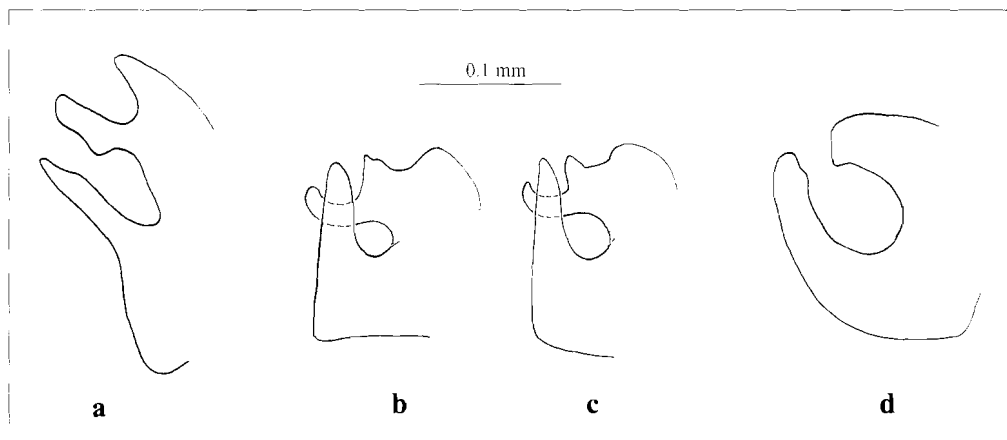


Fig. 1a-d: Male terminalia of *Dynatosoma abdominale* species group, internal processes of medial part of gonostylus. – a: *Dynatosoma nigromaculatum* LUNDSTRÖM, 1913, Czech Republic; – b: *Dynatosoma abdominale* (STAEGER, 1840), holotype; – c: *Dynatosoma abdominale* (STAEGER, 1840), Slovakia; – d: *Dynatosoma schachtii* PLASSMANN, 1999, holotype.

Remarks. This species has so far been reported from Norway and Germany. First record from Slovakia.

Dynatosoma rufescens (ZETTERSTEDT, 1838)

= *Dynatosoma bukowskii* A. ZAITZEV, 1986 **syn. nov.**

Material examined. SWEDEN: Lycksele, 1♂, lectotype (herewith designated), labelled (ZETTERSTEDT's handwriting): "M. rufescens Zett. ♀ Lycksele" (MZL). The lectotype is designated to elucidate the identity and fix the status of this species. CZECH REPUBLIC: Moravia and Silesia, Polanka nad Odrou, Blücherův les, floodplain forest, 30.7.1997, 1♂, 26.6.1999, 1♂, 28.7.1999, 1♂; Střeň, oak forest, 1.6.-29.7.1997, 2♂♂; Šilheřovice, Černý les Nature Reserve, beech forest, 1.-18.4.1999, 1♂, 1.5.-30.5.1998, 6♂♂, 1.-16.6.1998, 4♂♂ (all J. ŠEVČÍK leg., JŠ). SLOVAKIA: Devín near Bratislava, Devínska Kobyla Hill, 16.-17.6.1994, 1♂ (M. KOZÁNEK leg., JŠ).

Remarks. As stated already by EDWARDS (1924), the type from Lycksele is a male, not female as ZETTERSTEDT supposed. However, as ZETTERSTEDT (1838) did not state that he had only one specimen, it is better to designate it here as a lectotype. I have cleared the terminalia of the lectotype and found that they fully correspond to the figures given by ZAITZEV (1986a) for *D. bukowskii*.

Dynatosoma silesiacum **spec. nov.**

(Fig. 2b, c)

Type material. Holotype ♂: CZECH REPUBLIC, Moravia and Silesia, Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 4.9.-9.10.1999, J. ŠEVČÍK leg. (collected in yellow pan traps filled with ethylene glycol), stored in glycerol, deposited in SMO.

Diagnostic characters. This species is similar to *Dynatosoma norwegiense* ZAITZEV & ØKLAND, 1994 and the other species of the *thoracicum* species group. It can be easily distinguished by its remarkably long and narrow gonostyli with basal processes characteristically formed.

Etymology. Named after Silesia, a historical country along the border between Poland and the Czech Republic, where the holotype has been collected.

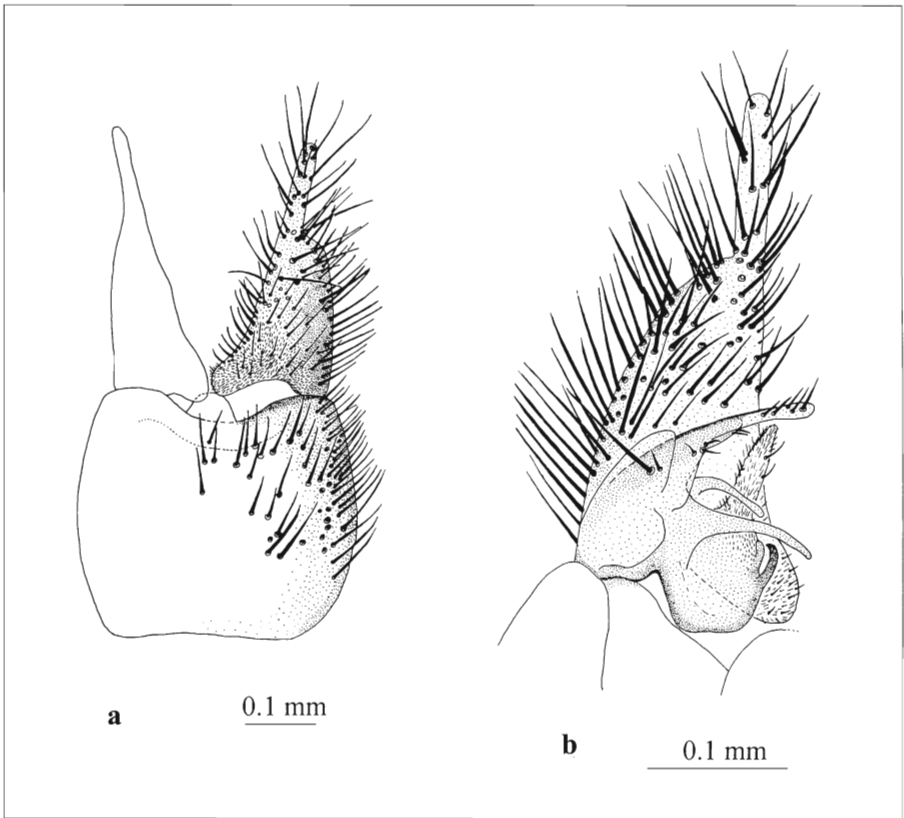


Fig. 2a, b: Male terminalia of *Dynatosoma silesiacum* spec. nov. (holotype). – a: ventral view; – b: dorsal view of right gonostylus.

Description

Male. Body length 6.5 mm. General coloration yellowish brown.

Head: Dark brown. Antennae apically brown, scape and pedicel yellowish, first to third flagellomere yellow with brown dorsal part. Ratio of length to width for seventh flagellomere is 1.125. Mouthparts yellow. Palpi yellowish, basally darker.

Thorax: Mesonotum brownish yellow, with two weak sublateral brown bands. Scutellum all yellow, with three pairs of long apical bristles, and four shorter bristles between each pair and laterally to first and third pair. Mediotergite dark brown. Laterotergites yellow, darkened at dorsal and ventral margins. Anepimeron yellow, with a small dark central band transversally. Anepisternum yellow, with dark brown dorsal, anterior and ventral margins. Antepronotum and proepisternum yellowish brown. Preepisternum and metepisternum dark brown. Halteres yellow. (Terminology used here follows SÖLI 1997). **Legs:** Coxae yellow, second and especially third coxa darkened laterally, with distinct dark brown spot at apical third of hind coxa. Mid and hind femora basally and apically darkened. Tibiae yellow, mid and hind tibia apically slightly darkened. Fore tibia subequal in length to first tarsomere, with three short apical spurs and one long, reaching to two thirds of the first tarsomere. Tarsi darkened. Mid tibia with 5 ad, 4 d, 5 pd and 4 v. Hind tibia with 6 ad, 4 d, 5 pd and 2 v. Ventral

bristles considerably weaker and shorter than dorsal ones, especially on hind tibia. **Wings.** Wing length 4.35 mm. Wings hyaline with well developed central spot and subapical and apical bands. Base of cubital fork beyond the base of median fork.

Abdomen: Tergites dark brown, with narrow posterior yellow bands and with several yellowish spots on each tergite laterally. **Terminalia:** (Fig. 2a, b) Yellowish brown. Gonostyli narrow and long, about 1.1 times longer than gonocoxites.

Mycetophila lastovkai CASPERS, 1984

Material examined. CZECH REPUBLIC: Moravia and Silesia, Šilheřovice, Černý les Nature Reserve, 1.-17.5.1998, 1 ♂ (JŠ). SLOVAKIA: Veporské vrchy Mts., Hriňová env., 20.9.1995, 1 ♂, M. KOZÁNEK leg. (JŠ).

Remarks. This is the first record of this species both from the Czech Republic and Slovakia.

Mycetophila moravica LANDROCK, 1925

= *Fungivora fusca* BUKOWSKI, 1949 **syn. nov.**

Type material examined. CZECH REPUBLIC: Moravia, Gersdorf (= Kerhartice near Dvorce), 1 ♂, K. LANDROCK leg., lectotype (herewith designated. MMB). Paralectotypes: Moravia, Hof (= Dvorce), 1 ♂, K. LANDROCK leg.; Moravia, Lobnigtal (= Lomnice near Brno), 1 ♀, K. LANDROCK leg.; Moravia, Gersdorf, 1 ♀, K. LANDROCK leg. (all MMB). The lectotype and paralectotypes are designated to elucidate the identity and fix the status of this Holarctic species.

Other material examined. CZECH REPUBLIC: Moravia and Silesia, Polanka nad Odrou, Blücherův les, flood-plain forest, 14.-27.3.1999, 1 ♂ (JŠ). SLOVAKIA: Veporské vrchy Mts., Hriňová env., 9.8.1995, 1 ♂, M. KOZÁNEK leg. (JŠ).

Remarks. I have not seen the type of *M. fusca*, but it is possible to establish this synonymy according to the original figure and description given by BUKOWSKI (1949). First record from Slovakia.

Mycetophila ostentanea A. ZAITZEV, 1998

Material examined. CZECH REPUBLIC: Bohemia, Šumava Mts., Horská Kvilda, spruce forest, 20.5.-17.6.1999, 1 ♂, M. BARTÁK & Š. KUBÍK leg. (Malaise trap); Moravia and Silesia, Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 21.7.-24.9.1998, 1 ♂ (JŠ, yellow pan traps).

Remarks. This species was described from northern Russia. It has three large bristles in the middle of the dorsal part of gonostylus, not two as figured by ZAITZEV (1998), Dr. ZAITZEV (in litt.) kindly confirmed this information. These are the first records of this species after the description.

Mycetophila pumila WINNERTZ, 1863

= *Mycetophila unimaculata* BUKOWSKI, 1934 **syn. nov.**

Material examined. GERMANY: Upper Bavaria, Schoengeising, Jäe Jägerbach, 2 ♂♂ (ZSM). CZECH REPUBLIC: Moravia and Silesia, Adamov near Brno (= Adamstal), 1 ♂, Bilovice nad Svitavou (= Bilowitz), 1 ♂, K. LANDROCK leg. (MMB); Polanka nad Odrou, Blücherův les forest, 27.4.1999, 2 ♂♂; Šilheřovice, Černý les Nature Reserve, 1.-16.6.1998, 33 ♂♂, 1.-30.11.1998, 2 ♂♂ (all JŠ). SLOVAKIA: Veporské vrchy Mts., Hriňová env., 27.8.1995, 1 ♂, Považský Inovec Mts., Lúka env., Mt. Ihelník, 27.9.-4.10.1999, 1 ♂, M. KOZÁNEK leg. (JŠ). GREAT BRITAIN: Kent, Seadbury Park, 22.10.1983, 1 ♂ (PCH); Scotland, Inverness, Grantown, 5.6.1984, 1 ♂ (PCH).

Remarks. I have not seen the type specimens, because the type of *pumila* is apparently lost and that of *unimaculata* is without abdomen (A. ZAITZEV, in litt.), but the original drawing given by BUKOWSKI (1934) is sufficient to establish the above mentioned synonymy. This synonymy was supposed already by Dr. P. LAŠTOVKA (pers. comm.) studying the *Mycetophila pumila* group many years ago. The specimens from Germany were identified and published by PLASSMANN & SCHACHT (1999) as *M. unimaculata* BUKOWSKI.

Mycetophila sinuosa Plassmann & Schacht, 1999

(Fig. 3a, b)

Material examined. GERMANY: Bavaria, Fürstenfeldbruck, Schönggeising, 500 m, Jägereinfang, Jägerbach, 31.8.-3.9.1991, 1 ♂, leg. W. Schacht (holotype of *Mycetophila sinuosa*, ZSM).

CZECH REPUBLIC: Moravia and Silesia, Šilheřovice, Černý les Nature Reserve, 1.-16.6.1998, 14 ♂♂; Polanka nad Odrou, Blücherův les forest, 24.8.1996, 1 ♂, 10.10.1998, 1 ♂, 27.3.1999, 1 ♂, 3.-27.4.1999, 4 ♂♂, 26.6.1999, 1 ♂ (all JŠ).

Remarks. This species is similar to *M. pumila*, from which it differs in details on the male terminalia (Fig. 3a, b). I have also several other specimens of the *pumila* group, which are slightly different from the above-mentioned species, but I would like to collect more material and see its variability before making further decisions.

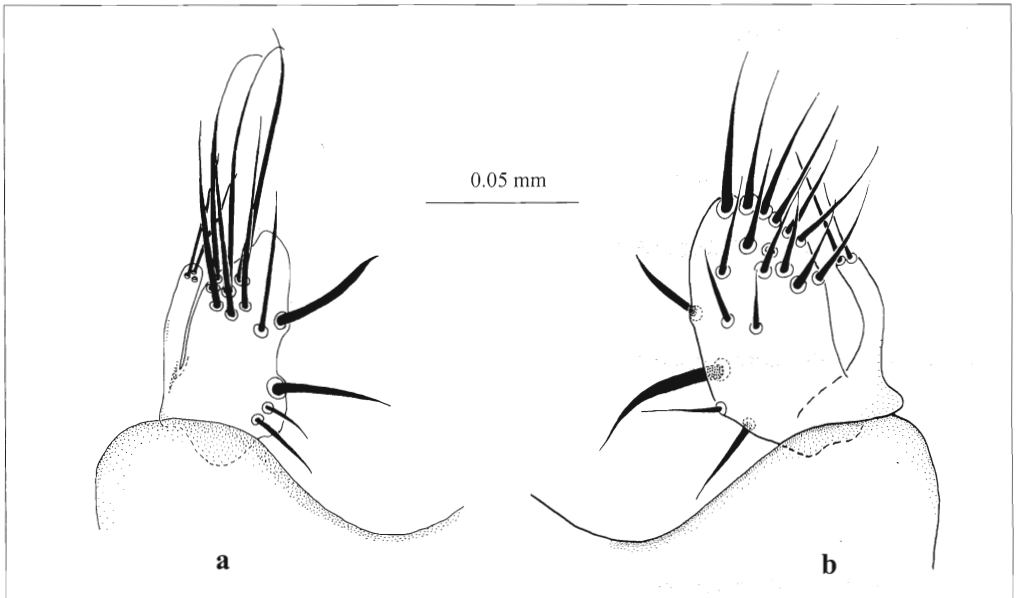


Fig. 3a, b: Male terminalia of *Mycetophila pumila* species group, ventral view. – **a:** *Mycetophila sinuosa* Plassmann & Schacht, 1999, ventral part of left gonostylus (Polanka nad Odrou, Czech Republic). – **b:** *Mycetophila pumila* Winnertz, 1863, ventral part of right gonostylus (Polanka nad Odrou, Czech Republic).

Sceptonia flavipuncta Edwards, 1925

Material examined. SLOVAKIA: Považský Inovec Mts., Lúka near Piešťany env., Mt. Ihelník, 25.4.-3.5.1999, 1 ♂, 4.-11.10.1999, 1 ♂, all M. Kožánek leg. (JŠ).

Remarks. Only three species of *Sceptonia* Winnertz were recorded from the Czech and Slovak republics by Košel et al. (1997). Further species were added by Ševčík & Martinovský (1999) and Ševčík (2000). The Palaearctic species of this genus were reviewed and male terminalia figured by Bechev (1995). This is a new record for Slovakia.

Sceptonia fumipes Edwards, 1925

Material examined. CZECH REPUBLIC: Bohemia, Šumava Mts., Kyselovský les peat-bog, 21.8.-27.9.1997, 1 ♂, M. Barták & J. Roháček leg. (JŠ).

Remark. First record from the Czech Republic.

Sceptonia pilosa BUKOWSKI, 1934

Material examined. CZECH REPUBLIC: Moravia and Silesia. Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 21.7.-24.9.1998, 1 ♂; Šilheřovice, Černý les Nature Reserve, 1.-17.5.1998, 1 ♂ (JŠ).

Remark. First records from the Czech Republic.

Zygomylia semifusca (MEIGEN, 1818)

= *Mycetophila thaleri* PLASSMANN, 1986 **syn. nov.**

Material examined. SWITZERLAND: Unterengadin, Ramosch, Clisot Charbunera, 19.8.-15.10.1980, 1 ♂, K. THALER leg. (holotype of *Mycetophila thaleri*, ZSM). CZECH REPUBLIC: Moravia and Silesia, Břeclav, Pohansko Nature Reserve, 3.9.1996, 2 ♂♂; Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 4.9.-9.10.1999, 2 ♂♂; Šilheřovice, Černý les Nature Reserve, 17.5.-16.6.1998, 2 ♂♂ (all JŠ).

Remarks. This species was transferred from *Mycetophila* MEIGEN, 1803 to *Zygomylia* WINNERTZ, 1863 by ZAITZEV (1989). *Mycetophila thaleri* was described by PLASSMANN (1986) and subsequently listed by CHANDLER (1998a) from Switzerland. It is identical with *Zygomylia semifusca* and thus represents a junior synonym of the latter species.

Exechiopsis ligulata (LUNDSTRÖM, 1913)

= *Exechiopsis perita* PLASSMANN, 1986 **syn. nov.**

Material examined. SWEDEN: Abisko, 11.-18.8.1975, 1 ♂, K. MÜLLER leg. (holotype of *Exechiopsis perita*, ZSM). SLOVAKIA: Stratená, Stratenská Cave, 10.1.1988, 1 ♂, V. KOŠEL leg. (JŠ).

Remark. Both this species and the synonym were described from Sweden and it is now known from many European countries. The male terminalia were sufficiently figured by ZAITZEV (1986b).

Exechiopsis pulchella (WINNERTZ, 1863)

= *Exechiopsis aemula* PLASSMANN, 1984 **syn. nov.**

Material examined. SWEDEN: Ängerman, 20.-30.9.1977, 1 ♂ (holotype of *Exechiopsis aemula*, ZSM). CZECH REPUBLIC: Bohemia, Šumava Mts., Jezerní slat' peat-bog, 28.-29.9.1996, 1 ♂, M. BARTAK & J. ROHÁČEK leg. (JŠ); Šumava Mts., Nová Hůrka, peat-bog, 20.8.-24.9.1999, 1 ♂, M. BARTAK & Š. KUBÍK leg. (JŠ).

Remark. First correct record from Sweden. Also this species was figured in detail by ZAITZEV (1986b).

Pseudobrachypeza helvetica (WALKER, 1856)

= *Pseudobrachypeza pseudohelvetica* PLASSMANN, 1984 **syn. nov.**

Material examined. AUSTRIA: Lunz, Scheierbach, 15.-17.10.1973, 1 ♂ (holotype of *Pseudobrachypeza pseudohelvetica*, ZSM). CZECH REPUBLIC: Moravia and Silesia, Adamov near Brno (= Adamstal), 1 ♂, K. LANDROCK leg., identified by him as *Rymosia affinis* WINNERTZ, 1863 (MMB); Bílé Karpaty Mts., Mt. Velká Javořina, 7.6.1997, 1 ♂; Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 25.8.1997-11.4.1998, 2 ♂♂; Moravskoslezské Beskydy Mts., Dolní Lomná, 24.9.2000, 5 ♂♂; Ostravice env., Mazácký grůnik Nature Reserve, 12.9.1999, 1 ♂; Ostrava-Svinov, Polanský les Nature Reserve, 14.9.1997, 1 ♂; Střeň, 25.6.1997, 1 ♂; Šilheřovice, Černý les Nature Reserve, 1.5.-17.5.1998, 26 ♂♂, 30.5.1998, 4 ♂♂, 16.6.1998, 2 ♂♂, 27.7.1998, 1 ♂, 15.8.1998, 3 ♂♂, 12.11.1998, 1 ♂ (all JŠ).

Remarks. A rather common species of deciduous forests, reported from many countries in Europe. The male terminalia were figured e.g. by DZIEDZICKI (1910) under the misidentified name *Rymosia affinis* WINNERTZ, 1863.

***Rymosia signatipes* (VAN DER WULP, 1859)**

= *Rymosia adventicia* PLASSMANN, 1986 **syn. nov.**

Material examined. SWEDEN: Abisko, 22.-29.9.1975, 1 ♂, K. MÜLLER leg. (holotype of *Rymosia adventicia*, ZSM). CZECH REPUBLIC: Lanžhot, 3.11.1996, 1 ♂; Moravskoslezské Beskydy Mts., Mořkov env., Trojačka Nature Reserve, 3.8.1999, 1 ♂; Šilheřovice, Černý les Nature Reserve, 28.4.1997, 3 ♂♂ (all JŠ).

Remarks. The characteristic gonostylus of this species was figured by ZAITZEV (1986b) under the name *R. truncata* WINNERTZ, 1863. First correct record from Sweden.

***Synplasta rufilatera* (EDWARDS, 1941)**

= *Brevicornu scherfi* PLASSMANN 1999 **syn. nov.**

Material examined. GERMANY: Bavaria, Oberpfalz, Sulztal, Rappersdorf bei Berching, 18.-24.7.1988, 1 ♂ (holotype of *Brevicornu scherfi*, ZSM). GREAT BRITAIN: Oxfordshire, NCC Survey, Wychwood forest, 29.8.-29.9.1988, K. PORTER leg., Malaise trap (JŠ).

Remarks. Peter CHANDLER had kindly provided me with one British male of this species and the holotype of *B. scherfi* proved to be conspecific.

***Synplasta sintenisi* (LACKSCHEWITZ, 1937)**

= *Allodia schoengeisingensis* PLASSMANN & SCHACHT, 1999 **syn. nov.**

Material examined. GERMANY: Bavaria, Fürstentfeldbruck, Schöngesing, Alter Einfang, Kellerbach, 23.5.1992, 1 ♂ (holotype of *Allodia schoengeisingensis*, ZSM). CZECH REPUBLIC: Moravia and Silesia, Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 4.9.1999, 1 ♂; Moravskoslezské Beskydy Mts., Mořkov env., Trojačka Nature Reserve, 3.8.1998, 1 ♂; Šilheřovice, Černý les Nature Reserve, 16.7.1997, 1 ♂, 30.5.1998, 2 ♂♂, 1.2.1999, 1 ♂ (all JŠ).

Remark. The male terminalia of this species were figured by PLASSMANN & SCHACHT (1999) and more precisely by ZAITZEV (1986b). ŠEVČÍK (1999) recorded this species for the first time from the Czech Republic.

***Tarnania fenestralis* (MEIGEN, 1818)**

= *Tarnania bavaria* PLASSMANN, 1980 **syn. nov.**

Material examined. GERMANY: Bavaria, Franken, Moorloch bei Oberau, 20.8.1975, 1 ♂ (holotype of *Tarnania bavaria*, ZSM). CZECH REPUBLIC: Moravia and Silesia, Hrubý Jeseník Mts., Vrbno pod Pradědem env., Jelení bučina Nature Reserve, 9.10.1999, 1 ♂ (JŠ). SLOVAKIA: Veporské vrchy Mts., Hriňová env., 17.9.1995, 1 ♂, M. KOZÁNEK leg. (JŠ).

Remark. This synonymy has already been indicated by P. CHANDLER (1998a) and the study of the holotype confirmed this opinion.

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