

New records of Anthomyiidae (Diptera) from the Czech Republic and Slovakia

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Abstract: Altogether 17 species of the family Anthomyiidae (Diptera) are recorded from the Czech Republic (or Moravia and Bohemia) (16 species) and Slovakia (1 species) for the first time. The most interesting findings are *Delia dovreensis* Ringdahl 1954 and northamerican species *Pegomyia bifurcata* Griffiths 1983.

Key words: Anthomyiidae, faunistics, distribution, new records, Czech Republic, Slovakia

Introduction

The fauna of Anthomyiidae (Diptera) is relatively well known in the Czech Republic, and somewhat less in Slovakia. Up to now 234 species of Anthomyiidae have been known from the Czech Republic and 170 from Slovakia (Komzáková 2009). First records of several other species (17) contribute to knowledge of species spectrum of Anthomyiidae in both the Czech Republic and Slovakia.

Material and Methods

The material presented in this study was collected by various methods. Part of the material is deposited in the collections of the Zoological Museum in Copenhagen (Natural History Museum of Denmark, University of Copenhagen). Distribution of species follows Michelsen (2007).

Survey of species

Alliopsis frei (Ringdahl, 1932)

Czech Republic: Bohemia: Šumava-Plechý, on Glyceria maxima, 1050m, 48°46'N /13°53'E, 22.vii.1992, 1♂ (M. Barták leg., V. Michelsen det.).

European species recorded in Austria, Norwegian mainland, Russia North and Finland. First record from the Czech Republic.

Alliopsis longiceps (Ringdahl, 1935)

Czech Republic: Moravia: Hrubý Jeseník Mts., 1200m, sweeping, 50°03'24"N /17°14'14"E, 7.vii.2004, 3♂ (M. Barták leg., O. Komzáková det.).

European species recorded in Austria, Great Britain, Russia North and Sweden. First record from the Czech Republic.

Anthomyia mimetica (Malloch, 1918)

Czech Republic: Bohemia: Třebotov – 1km E, edge of forest, 350m, 49°58'N /14°19'E, 3.vii.1983, 1♂ (M. Barták leg., V. Michelsen det.); Šumava Mts., 870 m, Nová Hůrka, peat-bog, 49°09'N /13°20', Malaise trap, 18.v-16.vi. 1999, 1♂ (M. Barták, Š. Kubík leg., O. Komzáková det.).

This species is known from north (Russian North included) and central Europe. First record from the Czech Republic.

***Botanophila estonica* (Elberg, 1970)**

Czech Republic: Bohemia: CZ: Šumava, Jezerní Slat', peat-bog, 49°02'N /13°34'E, 980m, 5.vi.1996, 1♂ (M. Barták leg., V. Michelsen det.).

The species is known from Andorra, Austria, Great Britain, Denmark, Estonia, Finland, France, Norway, Poland, Spain, Sweden, Switzerland, East Palearctic and Nearctic region. First record from the Czech Republic.

***Botanophila lobata* (Collin, 1967)**

Czech Republic: Bohemia: Bílina "Alexandr", sweeping, 50°35'44"N /13°41'25"E, 8.v.2002, 1♂ (M. Barták leg., O. Komzáková det.).

This species is known from the Czech republic (Moravia), Great Britain, Denmark, Finland, Slovakia, Sweden and East Palaearctic. First record from Bohemia.

***Chiastocheta dentifera* Hennig, 1953**

Czech Republic: Bohemia: Vráž u Písku, damp meadow, 400m, 49°23'N /14°08'E, 3.vi.1992, 1♂ (M. Barták leg., V. Michelsen det.).

The species is known from Andorra, Austria, Great Britain, Denmark, Finland, Germany, Poland, Russia Northwest, Spain, Sweden, Switzerland and East Palearctic region. First record from the Czech Republic.

***Chirosia betuleti* (Ringdahl, 1935)**

Czech Republic: Moravia: Beskydy Mts., Horní Lomná – Hruška, 140m, small brook, Picetum, Malaise trap, 49°30'29"N /18°36'56"E, 190m, 23.v.-19.vi. 1999, 1♂ (M. Barták leg., O. Komzáková det.).

European and East Palearctic species, recorded also from Slovakia. First record from the Czech Republic.

***Delia dovereensis* Ringdahl, 1954**

Czech Republic: Moravia: Hlohovec – 2km E, nr. pond, YPWT 48°47'N /16°48'E, 190m, 9.v.1997, 1♀ (M. Barták leg., V. Michelsen det.).

European, East Palaearctic and Nearctic species. A surprising record because species has been known only from Norway yet. This is the first record from the Czech Republic and Central Europe.

***Delia fabricii* (Holmgren, 1872)**

Czech Republic: Moravia: Hrabětice env., meadow nr. Picetum, 50°47'N /15°12' E, 800m, 25.vi.1989, 1♂ (M. Barták leg., V. Michelsen det.).

The species is known from Finland, Germany, Great Britain, Iceland, Poland, Sweden, East Palearctic and Nearctic region. First record from the Czech Republic.

***Delia pilitibia* (Stein, 1916)**

Czech Republic: Bohemia: Praha-Bonice, 1.5km N, vegetation, 50°08'N /14°24'E, 250m, 25.vi.1988, 1♂ (M. Barták leg., V. Michelsen det.).

The species is known from Bulgaria, France, Italia, Spain and Switzerland. First record from the Czech Republic.

***Delia pseudofugax* (Strobl, 1893).**

Slovakia: Záp. Tatry-Tichá dol., spruce forest, 49°10'N /20°03'E 1300 m, 1.viii.1984, 1♂ (M. Barták leg., V. Michelsen det.).

The species is known from Austria, Czech Republic, France, Italia, Poland and Switzerland. First record from Slovakia.

***Hydromorphia diabata* (Pandelle, 1899)**

Czech Republic: Bohemia: Šumava, Kvilda, spruce wood, YPWT 49°01'N/ 13°35'E, 1000m, 5-6.vi.1996, 1♂ (M. Barták leg., V. Michelsen det.).

The species is known from Austria, France, Germany, Great Britain, Greece, Switzerland. First record from the Czech Republic.

***Lasiomma octomaculatum* (Ringdahl, 1937)**

Czech Republic: Moravia: Podyjí NP, Vraní skála, mix wood, Malaise trap, 48°51'03"N/15°53'42"E, 3.iv. – 20.5. 2003 (O. Komzáková leg. and det.); Podyjí NP, Čížov, mix wood, Malaise trap, 48°51'30"N/15°51'35"E, 4.-29. iv. 2003, 1♂ (M. Barták, Š. Kubík leg., O. Komzáková det.).

The European species known only from the Czech Republic (Bohemia) and Sweden. First record from Moravia.

***Pegomya bifurcata* Griffiths, 1983**

Czech Republic: Bohemia: Šumava-Jezerní slat', peat-bog, 980m, 49°02'N /13°34'E, pan trap, 2-18.vi. 1995, 1♂ (M. Barták leg., V. Michelsen det.).

A surprising record of a species recently described from North America. First record from the Czech Republic and Europe.

***Pegomya exilis* (Meigen, 1826).**

Czech Republic: Bohemia: Praha-Ruzyně, 50°05'N /14°18'E, Malaise trap, 3-6.vi. 1994 1♂, 1♀ (M. Barták leg., V. Michelsen det.).

The species is known from Belgium Denmark, Finland, France, Germany, Great Britain, Greece, Italia, Norway, Spain, Sweden, Switzerland, Near East, East Palearctic and Nearctic region. First record from the Czech Republic.

***Pegomya fuscinata* Tiensuu, 1939**

Czech Republic: Bohemia: Šumava, Trojmezná, Malaise trap, 12-24.vi. 2003, 1♂ (Farkač leg., O. Komzáková det.).

The species is known from Denmark, Finland, Russia North, Russia Northwest and Sweden. First record from the Czech Republic.

***Zaphne lineatocollis* (Zetterstedt, 1838)**

Czech Republic: Bohemia: Šumava-Horská Kvilda, spruce forest, 1100m, 49°05'N /13°33'E, Malaise trap, 20.v.-17.vi. 1999, 1♂; Šumava-Boubín, mixed wood, 900m, 48°58'40"N /13°49'00"E, Malaise trap, 15.-28.v.-2002, 1♂ (Spitzer leg., O.Komzáková det.).

The species is known from Finland, Germany, Norway, Russia North, Spain and Sweden, East Palearctic and Nearctic region. First record from the Czech Republic.

Conclusions

Records of 14 species of Anthomyiidae (*Alliopsis freyi*, *A. longiceps*, *Anthomyia mimetica*, *Botanophila estonica*, *Chiastocheta dentifera*, *Chirosia betuleti*, *Delia dovereensis*, *D. fabricii*, *D. pilosibilia*, *D. pseudofugax*, *Hydromorphia diabata*, *Lasiomma octomaculatum*, *Pegomya bifurcata*, *P. exilis*, *P. fuscinata* and *Zaphne lineatocollis*) increase the number of species known from the Czech Republic (244) and one species from Slovakia (171). One

species, *Lasiomma octomaculatum*, is new record for Moravia and one, *Botanophila lobata*, is new record for Bohemia. The record of *Pegomya bifurcata* from the Czech Republic also represents the first record from Europe. Specimen of *Delia dovreensis* from Moravia has been the first finding of this species outside Norway.

References

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Nové nálezy květilek (Diptera: Anthomyiidae) z České republiky a Slovenska

Nově bylo na území České republiky zjištěno 14 druhů z čeledi Anthomyiidae (*Alliopsis freyi*, *A. longiceps*, *Anthomyia mimetica*, *Botanophila estonica*, *Chiastocheta dentifera*, *Chirosia betuleti*, *Delia dovreensis*, *D. fabricii*, *D. pilitibia*, *D. pseudofugax*, *Hydromyia diabata*, *Lasiomma octomaculatum*, *Pegomya bifurcata*, *P. exilis*, *P. fuscinata* and *Zaphne lineatocollis*) a na území Slovenska 1 druh (*Delia pseudofugax*). Mezi nejzajímavější prvnálezy patří druh *Delia dovreensis* známý dosud pouze z Norska a severoamerický druh *Pegomya bifurcata*, který byl na území Evropy zaznamenán poprvé.

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