

New faunistic records of ichneumon wasps (Hymenoptera, Ichneumonidae) from Moravia, Czech Republic

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ZEMAN V., RINDOŠ M., LUKÁŠ J. 2015: New faunistic records of ichneumon wasps (Hymenoptera, Ichneumonidae) from Moravia, Czech Republic. *Acta Musei Moraviae, Scientiae biologicae* (Brno) **100(2): 281–286**. – About 1383 species of ichneumon wasps (Hymenoptera, Ichneumonidae) of 32 subfamilies have been recorded from Moravia to date. Ten additional species from four subfamilies (Acaenitinae, Banchinae, Campopleginae, Cryptinae) are presented herein. Their known distribution and hosts are also indicated.

Keywords. Hymenoptera, Ichneumonidae, Czech Republic, new records

Introduction

About 1383 species of ichneumon wasps, contained within 32 subfamilies, have been recorded to date from Moravia. The largest work published on this topic (ŠEDIVÝ 1989) listed 1396 species contained within 27 subfamilies, but many of these species need to be confirmed. A few papers detailing Moravian ichneumonids have also been published. In the first half of the 20th century, two articles by GREGOR (1928, 1934) reported 140 species for Moravia. In the 21st century, seven articles (DVOŘÁK *et al.* 2008, 2010; HOLÝ 2008; HOLÝ *et al.* 2009, ZEMAN 2001, 2003, 2004) reported 44 species for the region. This study presents 10 additional species from 4 subfamilies for Moravia, adding to known distribution and reporting their Central European hosts (YU *et al.* 2005).

Material and methods

The material is currently deposited in the Slovak National Museum and was originally donated by J. Kocourek. It is preserved as prepared, dry material. The specimens were determined by the first author of this paper, together with J. Šedivý.

Faunistic data are presented in the following order:

1. Material: locality (Fig. 1) + field codes for faunistic grid mapping within the European Fauna and Flora system (PRUNER & MÍKA 1996), collection date, number and sex of the specimen.
2. Distribution: world distribution of the species.
3. Hosts: Hosts recorded from Central Europe.

List of species

ACAENITINAE

Coleocentrus soldanskii (Bischoff, 1915)

Material. Mušov (7165a), 16.06.1977, 1♀.

Distribution. Czech Republic, Germany; Poland.

Host(s). unknown.

Banchinae

Exetastes illusor (Gravenhorst, 1829)

Material. Vyškov (6767b), 22.05.1966, 1♀

Distribution. Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, Croatia, Czech Republic, Denmark, Finland, France, Germany, Hungary, India, Ireland, Italy, Kazakhstan, Latvia, Lithuania, Luxembourg, Macedonia, Moldova, Mongolia, Montenegro, Netherlands, Norway, Poland, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Switzerland, Turkey, Ukraine, United Kingdom, U.S.A.

Hosts. Lepidoptera – Geometridae (*Bupalus piniaria* L.), Pieridae (*Pieris brassicae* L.), Saturniidae (*Saturnia pavonia* L.), Noctuidae (e.g. *Agrotis segetum* D & S., *Axyليا putris* L., *Lacanobia oleracea* L.) Erebidae (*Spilosoma lubricipeda* L., *Tyria jacobaeae* L.), Crambidae (*Ostrinia nubilalis* Hub.)

Lissonota freyi (Hellen, 1915)

Material. Pouzdřany (7065d), 20.06.1977, 1♀

Distribution. Canada, Czech Republic, Finland, Germany, Italy, Norway, Poland, Sweden, U.S.A.

Hosts. Lepidoptera – Sesiidae (*Sesia* Fab.).

Campopleginae

Hyposoter didymator (Thunberg, 1822)

Material. Pouzdřany (7065d), 20.07.1979, 1♀.

Distribution. Australia, Azerbaijan, Bosnia and Herzegovina, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Finland, France, Germany, Greece, Hungary, Iran, Ireland, Israel, Italy, Latvia, Macedonia, Moldova, Montenegro, Netherlands, Norway, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Tunisia, Turkey, Ukraine, United Kingdom, Uzbekistan.

Hosts. Coleoptera – Curculionoidea (*Hypera postica* Gyll.); Lepidoptera – Pieridae (*Colas croceus* G.), Geometridae (*Hylaea fasciaria* L.), Lasiocampidae (*Lasiocampa trifolii* Den. & Schiff.) Nymphalidae (e.g. *Polygonia egea* Cram., *Vanessa cardui* L.), Noctuidae (*Acronicta aceris* L., *Cucullia tanacetii* Den & Schiff., *Orthosia gracilis* Den & Schiff.) Erebidae *Lymantria monacha* L., *Orgyia antiqua* L.). Gelechiidae (*Aproaerema anthyllidella* Hub.), Pterophoridae (*Stenoptilia bipunctidactyla* Scop.), Yponomeutidae (*Yponomeuta evonymella* L.).

***Sinophorus xanthostomus* (Gravenhorst, 1829)**

Material. Pouzďany (7065d), 12.08.1976, 1♀.

Distribution. Afghanistan, Algeria, Armenia, Austria, Azerbaijan, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, Finland, France, Germany, Greece, Hungary, Iran, Ireland, Israel, Italy, Jordan, Kazakhstan, Latvia, Libya, Luxembourg, Moldova, Netherlands, Norway, Pakistan, Poland, Romania, Russia, Saudi Arabia, Slovakia, Spain, Sweden, Tunisia, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan.

Hosts. Lepidoptera – Pieridae (*Pieris brassicae* L., *Pieris rapae* L.), Noctuidae (e.g. *Agrotis ipsilon* Huf., *Agrotis segetum* Den & Schiff., *Helicoverpa armigera* Hub., *Heliothis peltigera* Den & Schiff., *Spodoptera exigua* Hub.), Gelechiidae (*Chionodes distinctella* Zell.), Crambidae (*Loxostege sticticalis* L., *Ostrinia nubilalis* Hub.), Pyralidae (*Myelois circumvoluta* Four.).

Cryptinae

***Aclastus solutus* (Thomson, 1884)**

Material. Vyškov (6767b), 28.07.1967, 1♀.

Distribution. Austria, Bulgaria, Czech Republic, Faroe Islands, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Madeira Islands, Netherlands, Poland, Spain, Sweden, Turkey, United Kingdom.

Host. Araneida – Emerges from the egg sac.

***Agrothereutes leucorhaeus* (Donovan, 1810)**

Material. Vyškov (6767b), 28.07.1967, 1♀.

Distribution. Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Israel, Latvia, Lithuania, Macedonia, Montenegro, Norway, Poland, Romania, Serbia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom.

Host. Hymenoptera – Diprionidae (*Diprion pini* L.); Lepidoptera – Lasiocampidae (*Lasiocampa quercus* L.), Saturniidae (*Saturnia pavonia* L.).

***Aritranis insectator* (Tschek, 1871)**

Material. Pouzdřany (7065d), 28.06.1976, 1♀.

Distribution. Austria, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Finland, Germany, Hungary, Macedonia, Montenegro, Poland, Portugal, Romania, Serbia, Slovenia, Spain.

Host. Coleoptera – Curculionidae (*Lixus iridis* Oliv.).

***Schreineria cingulipes* (Förster, 1888)**

Material. Pouzdřany (7065d), 20.06.1979, 1♀.

Distribution. Bulgaria, Corsica, Czech Republic, Finland, France, Germany, Hungary, Iran, Italy, Japan, Latvia, Poland, Romania, Spain.

Hosts. Coleoptera – Curculionoidea (*Cryptorhynchus lapathi* L.); Lepidoptera – Sesiidae (*Sesia sphecoformis* Esp., *Synanthedon formicaeformis* Esp.).

***Trychosis legator* (Thunberg, 1824)**

Material. Pouzdřany (7065d), 20.06.1979, 1♀.

Distribution. Albania, Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Canary Islands, Corsica, Crete, Croatia, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iran, Iraq, Ireland, Balearic Islands, Israel, Italy, Korea, Latvia, Lithuania, Macedonia, Madeira Islands, Moldova, Montenegro, Netherlands, Norway, Poland, Romania, Russia, Serbia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Tunisia, Turkey, United Kingdom.

Host. Arachnida – Thomisidae (*Xysticus ulmi* Hahn); Lepidoptera – Geometridae (*Eupithecia tantillaria* Boisd.), Crambidae (*Loxostege sticticalis* L.).

Summary

Ten species of the family Ichneumonidae are reported here as new to the region of Moravia in the Czech Republic. All of them had previously been recorded from the Bohemia region in the Czech Republic by ŠEDIVÝ (1989) and ZEMAN (2003), and have a typically wide distribution range. We assume that these species were only overlooked by previous research or, as is the case for some of their hosts, a large number of ichneumon wasps are currently radiating across Europe. There are a number of possible reasons for such dispersal, with climate change, more potential hosts and suitable habitats with less competition among them. Three of the species reported are potential specialists on a particular host, while the host(s) of *C. soldanskii* remain/remain unknown.

Ichneumonidae from Moravia, Czech Republic

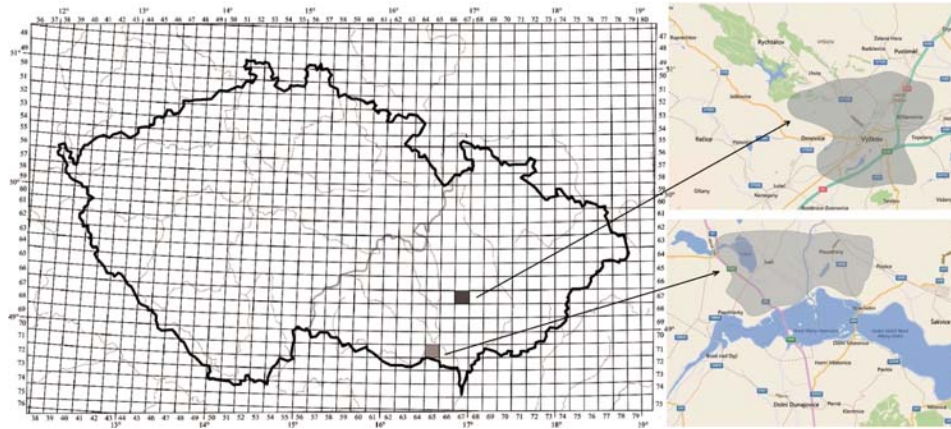


Fig. 1. Distribution of newly recorded Ichneumonidae from the region of Moravia (Czech Republic).

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