

ICHNEUMONIDS (HYMENOPTERA: ICHNEUMONIDAE) FROM THE CENTRAL MOLDAVIAN PLATEAU (ROMANIA)

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This study presents 11 ichneumonids species of 10 genera, belonging to subfamilies Ctenopelmatinae, Eucerotinae, Icheumoninae and Tryphoninae collected in 2014 from the Central Moldavian Plateau. The species *Syntactus varius* (Holmgr.) and *Anoncus gracilicornis* (Holmgr.) are mentioned for the first time in Romania. The other nine species are rare in Romanian fauna.

Key words: Hymenoptera, Ichneumonidae, new records, Central Moldavian Plateau, Romania.

INTRODUCTION

Ichneumonidae is the largest family of the order Hymenoptera, being estimated with at least 60.000 species, because the southern hemisphere fauna is less studied (Wahl, 1993). Although till now there are 25.439 known valid species, belonging to 1.485 genera (Yu & Horstmann, 1997). In Romania are recorded 2.582 species, belonging to 447 genera (Lungu-Constantineanu, 2007).

Ichneumonids represents a group of entomophagous insect parasitoids with an important role in limiting the outbreaks of insect pest populations in agriculture and forestry.

Our research has been achieved in the Miclești, Bălteni, Hârboanca and Dobrina forests, Vaslui county, in the Central Moldavian Plateau (Romania), during June-July 2014.

RESULTS

We present the synopsis of the 11 species recorded from the Central Moldavia Plateau in 2014.

Family ICHNEUMONIDAE Latreille, 1802
Subfamily CTENOPELMATINAE Förster, 1869

I. Genus *Syntactus* Förster, 1869

Type species: *Ichneumon delusor* Linnaeus, 1758, Verh. Naturhist. Ver. Preuss. Rheinl. Westf, **25**: 135-221.

1. *Syntactus varius* (Holmgren, 1858), ♀

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Synonyms: 1858 *Trematopygus varius* Holmgren, Monogr. Tryph. Sueciae, Kongl.Svensk. Vet. Handl, N.F.1 (2): 305-394.

Material: 1 ♀, June 5, 2014, Miclești forest, Vaslui county.

♀. The body is fine punctate, shiny. Head broadened posteriorly, fine and rare punctate. Antennae filiform, slightly shorter than the body. Clypeus flat, with suddenly anterior margin. Mandibles with equal teeth. Thorax slightly narrower than the head. Mesoscutum with obvious notauli. Propodeum rugose with obvious carinae. First abdominal segment weakly curved, narrowed at base, fine rugose. Second tergite is finely rugose, the other tergites are shiny. Ovipositor is short and straight.

Black. Palps are reddish. Antennae brown; tegulae yellow, stigma dark brown, lighter at base. Legs red-yellow; base of fore coxae, entire hind coxae, dorsal part of hind femora, apex of hind tibiae and hind tarsi blackish. Tergite 2-4 reddish, with a dark shade. Length = 9.5 mm.

Hosts: unknown.

Geographical distribution: Northern Europe, Russia (Arhangelsk, Minusinsk and Yakutsk).

New species for the Romanian fauna

II. Genus *Anoncus* Townes, 1870

Type species: *Mesoleius striatus* Davis, 1897, Townes H. K., 1970, Mem. Amer. Ent. Inst., **13**: 1-307.

2. *Anoncus gracilicornis* (Holmgren, 1857), ♂

Synonyms: 1857 *Mesoleius gracilicornis* Holmgren, Monogr. Tryph. Sueciae, Kongl. Svensk. Vet. Handl, N.F.1 (2): 93-246.

Material: 1 ♂, July 21, 2014, Miclești forest, Vaslui county.

♂. Head not narrower than thorax. Antennae longer than the body, with fine hairs on apex. Vertex short, strongly narrowed posteriorly. The face narrows towards the lower part. Cheeks are very short. Clypeus with big lateral foveae and fore margin rounded. Notauli are evident. The propodeum carinae are weak. The wings are large, without areolet. Radial vein begins before half stigma. Radial cell is large. Nervulus postfurcal; nervellus intercepted below the middle. Legs are stout; hind tarsi shorter than tibiae, the last tarsal article slightly longer than the third; large claws. Abdomen apex slightly compressed laterally; first abdominal segment long, slightly flattened behind, postpetiole not transverse. Second abdominal segment transverse.

Black. Palps, cheeks and face are whitish. Scutellum is black, sometimes with white spots on the sides. Mesoscutum usually with a lighter drawing. Third abdominal segment with a long lighter spot. Hind tarsi longer than female's.

Length = 7 mm.

Hosts: unknown.

Geographical distribution: Center and Northern Europe, Belarus, Ukraine, Russia (Riazan, Tambov).

New species for the Romanian fauna

Subfamily ICHNEUMONINAE Latreille, 1802

III. Genus *Baeosemus* Förster, 1869

Type species: *Ichneumon mitigosus* Gravenhorst, 1929, Verh. Naturhist. Ver. Preuss. Rheinl. Westf, **25**: 135-221.

3. *Baeosemus mitigosus* (Grav., 1829), ♀

Synonyms: *Herpestomus phaeocerus* Wesmael, 1845, Nouv. Mém. Acad. Roy. Sci., **18**: 1-239.

Material: 1 ♀, June 5, 2014, Bălteni-Hârboanca forest, Vaslui county.

Length = 3,5 mm.

Hosts: unknown.

Geographical distribution: Northern and Center Europe. In Romania it is a rare species, being previously recorded from Călian forest, Nicșeni commune, Botoșani county and Bârnova forest, Iași county (Constantineanu, 1965; Pisiță & Popescu, 2009).

IV. Genus *Coelichneumon* Thomson, 1893

Type species: *Ichneumon comitator* Linnaeus, 1758, Opusc. Ent., **19**: 1971-2024.

4. *Coelichneumon impressor* (Zetterstedt, 1838), ♂

Synonyms: *Ichneumon inquilinus* Holmgren, 1864, Ichn. Suecica, **1**: 1-213.

Material: 1 ♂, July 17, 2014, Dobrina forest, Vaslui county.

Length = 14 mm.

Hosts: *Gortyna flavago* (Den. et Schiff., 1775) and *Cerapteryx graminis* (L.) (Lepidoptera, Noctuidae) (Constantineanu, 1959; Pisiță & Popescu, 2009).

Geographical distribution: England, Sweden, Belgium, Germany, Austria, Hungary, Russia (Bakinsk region). In România it is a rare species, being previously recorded from Iacobeni, Suceava county; Slobozia-Schitu Duca, Iași county; Retezat mountains, Hunedoara county; Cisnădie, Sibiu county.

V. Genus *Ctenichneumon* Thomson, 1894

Type species: *Ichneumon funereus* Geoffroy, 1785, Opusc. Ent., **19**: 2080-2137.

5. *Ctenichneumon nigratus* (Constantineanu, 1954), ♂

Synonyms: *Ctenichneumon circulator* (Thomson, 1894)

Material: 1 ♂, July 21, 2014, Miclești forest, Vaslui county.

Length = 13 mm.

Hosts: unknown.

Geographical distribution: Sweden, ex- Czechoslovakia. In România it is a rare species, being previously recorded from Iacobeni, Moldovița, Suceava county and Saschiz, Mureș county (Constantineanu, 1959; Pisiță & Popescu, 2009).

VI. Genus *Goedartia* Boie, 1841

Type species: *Trogus alboguttatus* 1829, Naturhist. Tidskr., **3**: 315-324.

6. *Goedartia alboguttata* (Gravenhorst 1829), ♂

Synonyms: *Trogus affinis* Boie, Naturhist. Tidskr., **3**: 315-324.

Ichneumon balticus Ratzeburg, 1844, Die Ichneumonien der Forstinsecten in forstlicher und entomologischer Beziehung, Berlin, 224 pp.

Amblyteles dimidiativentris Rudow, 1888, Ent. Nachrichten, **14** (6): 83-92.

Material: 1 ♂, June 5, 2014, Miclești forest; 1 ♂, July 21, 2014, Bălteni, Hârboanca forest, Vaslui county.

Length = 15 mm.

Hosts: *Dasychira pudibunda* L., *D. abietis* Schiff., *Lymantria monacha* L., *Euproctis similis* Fuesl., *Liparis auriflua* Schiff. (Lepidoptera, Lymantriidae), *Thyatira batis* L. (Lepidoptera, Tetheidae), *Noctua pronuba* L. (Lepidoptera, Noctuidae), *Phalera bucephala* (L.) (Lepidoptera, Notodontidae) and *Deilephila porcellus* (L.) (Lepidoptera, Sphingidae) (Constantineanu, 1959; Pisciă & Popescu, 2009).

Geographical distribution: Western Europe, Russia (St. Petersburg), Ukraine, Belarus. In Romania it is a rare species, being previously recorded from the Făgăraș mountains (Bîrcaci), Argeș county; Mehadia mountains, Caraș-Severin county and Bucegi mountains, Prahova county.

VII. Genus *Tycherus* Förster, 1869

Type species: *Phaeogenes elongatus* Thomson, 1891, Verh. Naturhist. Ver. Preuss. Rheinl. Westf., **25**: 135-221.

7. *Tycherus flavidens* (Wesmael, 1845), ♀

Synonyms: *Herpestomus flavoclypeatus* Strobl, 1901, Mitt. Naturwiss. Ver. Steiermark, Graz, **37**: 132-257.

Material: 1 ♀, June 5, 2014, Dobrina forest, 1 ♀, June 5, 2014, Bălteni-Hârboanca forest, Vaslui county.

Length = 6 mm.

Hosts: unknown.

Geographical distribution: Sweden, Germany, France, Bulgaria, Latvia. In România it is a rare species, being previously recorded from Bârnova, Iași county and the natural reservation "Ponoare", Suceava county (Constantineanu 1965; Pisciă & Popescu, 2009).

Subfamily TRYPHONINAE Shuckard, 1840

VIII. Genus *Cycasis* Townes, 1965

Type species: *Tryphon rubiginosus* Gravenhorst, 1829, Mem. Amer. Ent. Inst., **5**: 1-661.

8. *Cycasis rubiginosa* (Grav., 1829), ♀, ♂

Synonyms: *Tryphon rubiginosus* Gravenhorst, 1829, Mem. Amer. Ent. Inst., **5**: 1-661.

Material: 1 ♀, June 5, 2014, Miclești forest, and 1 ♂, July 21, 2014, Bălteni-Hârboanca forest, Vaslui county.

Length = 6 mm.

Hosts: *Cladius difformis* Panz., *Monophadnoides alternipes* Kl. (Hymenoptera: Tenthredinidae), *Laspeyresia strobilella* L. (Lepidoptera, Tortricidae) (Constantineanu *et al.*, 2000).

Geographical distribution: Western Europe, Kazakhstan, Mongolia, Kârgâzstan, Russia (Siberia). In România it is a rare species, being previously recorded from

Valea Sirinea-Cozla, Valea Mraconia-Ogradena, Mehedinți county; natural reservation “Ponoare”, Câmpulung Moldovenesc, natural reservation “Slătioara”, Suceava county and natural reservation “Valea lui David”, Iași county (Constantineanu *et al.*, 2000).

IX. Genus *Eridolius* Förster, 1869

Type species: *Exenterus pygmaeus* Holmgren, 1857, Verh. Naturhist. Ver. Preuss. Rheinl. Westf, **25**: 135-221.

9. *Eridolius dahlbomi* (Holmgr., 1857), ♀

Material: 1 ♀, June 5, 2014, Bălteni-Hârboanca forest, Vaslui county.

Length = 5 mm.

Hosts: *Polinematus rumicis* L. (Hymenoptera: Tenthredinidae).

Geographical distribution: Norway, Finland, Latvia, Russia (St. Petersburg, Komi, Taimâr, Kurile). In Romania it is a rare species, being previously recorded from Slătioara, Stulpicani commune, Suceava county (Constantineanu *et al.*, 2000).

10. *Eridolius gnathoxanthus* (Grav., 1829), ♀

Material: 1 ♀, June 5, 2014, Miclești forest, Vaslui county.

Length = 8 mm.

Hosts: *Periclista pubescens* Zadd. and *Nematinus luteus* Panz. (Hymenoptera: Tenthredinidae) (Constantineanu *et al.*, 2000).

Geographical distribution: Northern and center Europe, Bulgaria, Poland, Ukraine, Belarus, Russia (St. Petersburg, Tambov, Ekaterinaburg, Samarsk, Jaroslav, Citinsk, Primorie, Murmansk, Arhangelsk, Kamciatka), Georgia. In Romania it is a rare species, being previously recorded from Baia Mare, Maramureș county, Iacobenii and Moldovița, Suceava county (Constantineanu *et al.*, 2000).

Subfamily **EUCEROTINAE** Viereck, 1919

X. Genus **EUCEROS** Gravenhorst, 1829

Type species: *Euceros crassicornis* Gravenhorst, 1829, Ichn. Eur., **3**: 1-1097.

11. *Euceros pruinosus* (Grav., 1829), ♀

Synonyms: *Eucerus superbus* Kriechbaumer, 1888, Ent. Nachr., **14** (13): 197-200.

Material: 1 ♀, July 21, 2014, Bălteni-Hârboanca forest, Vaslui county.

Length = 9 mm.

Hosts: *Eupithecia abbreviata* (Steph.), *Hydriomena berberata* Schiff. (Lepidoptera, Geometridae), *Panolis flammea* (Schiff.) (Lepidoptera, Noctuidae), *Thecia quercus* L. (Lepidoptera, Lycaenidae), *Callimorpha dominula* L. (Lepidoptera, Arctiidae), *Calliteara pudibunda* L., *Lymantria dispar* L. (Lepidoptera, Lymantriidae), *Malacosoma neustria* L. (Lepidoptera, Lasiocampidae) (Constantineanu *et al.*, 2000).

Geographical distribution: Western and center Europe, Russia (Soci, Krasnoiarsk, Zabaikalie, Southern of the far East). In Romania it is a rare species, being previously recorded from Valea Mraconia, Ogradena commune, Mehedinți county, Hârboanca forest, Vaslui county, Bulbucata, Goștinari, Băneasa, Giurgiu

county, Hodod, Satu Mare county, Mehadia, Reșița, Caraș Severin county and Babadag, Tulcea county (Constantineanu & Țătan, 1973; Yu & Horstmann, 1997; Constantineanu *et al.*, 2000).

CONCLUSIONS

The paper presents 11 ichneumonid species of 10 genera, belonging to the subfamilies Ctenopelmatinae, Eucerotinae, Ichneumoninae and Tryphoninae, collected in 2014 from Central Moldavian Plateau.

Syntactus varius (Holmgr.) and *Anoncus gracilicornis* (Holmgr.) are mentioned for the first time in the Romanian fauna. The species *Cycasis rubiginosa* (Grav.), *Eridolius dahlbomi* (Holmgr.), *Eridolius gnathoxanthus* (Grav.), *Euceros pruinosus* (Grav.), *Baeosemus mitigosus* (Grav.), *Tycherus flavidens* (Wesm.), *Coelichneumon impressor* (Zett.), *Cratichneumon circulator* (Thoms.) and *Goedartia alboguttata* (Grav.) are rare in the Romanian fauna.

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