

Contributions to the study of chalcidoids (Hymenoptera, Chalcidoidea) from the surroundings of Cluj-Napoca

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Abstract

In this paper 62 species of chalcidoids are presented from the surroundings of Cluj . There are listed species from the families of Pteromalidae (26 species), Eupelmidae (5 species), Chalcididae (1 species), Ormyridae (2 species), Eurytomidae (8 species), Aphelinidae (1 species), Eulophidae (2 species), Encyrtidae (5 species), and Torymidae (12 species). This is the first Chalcidoid list from this area since 1958.

Rezumat

Contribuții la studiul Chalcidoidelor din împrejurimile orașului Cluj-Napoca

Sunt prezentate 62 de specii de Chalcidoide din jurul Clujului. Sunt listate specii din familiile Pteromalidae (26 specii), Eupelmidae (5 specii), Chalcididae (1 specie), Ormyridae (2 specii), Eurytomidae (8 specii), Aphelinidae (1 specie), Eulophidae (2 specii), Encyrtidae (5 specii) și Torymidae (12 specii). Această lucrare prezintă prima listă de specii de Chalcidoide din această regiune din 1958.

Introduction

Chalcidoids from the fauna of Transylvania are known less than those from the other parts of Romania, due to the little number of faunists, who worked in this area. From Cluj-Napoca (Cluj county) and its vicinity there were semnalized few species of chalcidoids. Those which were semnalized, were species from the families of Mymaridae, Encyrtidae, Aphelinidae, and the other species were parasitoids of Cynipidae oak galls. Before us studies were carried out between 1960-1980, but until now there were published only about 30 species. This work aims to add data to the knowledge of this group, especially to the species of Pteromalidae, because this is the least known family from this area.

Materials and methods

Samplings were made (1) in 2000-2001 in the Fânațe Natural Reserve, and on the nearby pastures, (2) in the Făget-forest (*Quercus petraea-Carpinaetum*), (3) in the Hoia-forest (*Quercus pubescens*, *Quercus petraea-Carpinaetum*), (4) and some specimens were also collected from windows in Cluj-Napoca. Some specimens were collected on the pastures near Bogata de Arieș (Cluj county), and in Cheile Turzii (Cluj county). The majority of the specimens were collected with sweep-nets, and those from Făget-forest and Hoia-forest were emerged from Cynipidae galls produced on *Quercus sp.* and *Rosa sp.* All specimens were collected by the autor.

The identification of the species is based on the keys of BOUČEK, and RASPLUS (1991), ERDŐS (1960), and GRAHAM (1969)

Survey of species

Pteromalidae Dalman, 1820

Spalangia fuscipes Nees, 1834 - 1 ♀, Cluj-Napoca, Fânațe, Natural Reserve, sweep-net, 29.IV.2001.

Asaphes suspensus (Nees, 1834) - 1 ♀ 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000.

Trigonoderus cyanescens (Förster, 1841) - 2 ♀, Cluj-Napoca, Hoia-forest, sweep-net, 13.VII.2002.; 2 ♀, Cluj-Napoca, Hoia-forest, sweep-net, 22.VII.2002

Plutothrix trifasciatus (Thomson, 1878) - 1 ♀, Cluj-Napoca, Hoia-forest, sweep-net, 13.VII.2002.; 1 ♀, Cluj-Napoca, Hoia-forest, sweep-net, 22.VII.2002

Platygerrihus maculatus Erdős, 1957 - 1 ♀, Cluj-Napoca, City, *Spirea* shrubs, 02.X.2001.

Platygerrihus affinis (Walker, 1836) - 1 ♀, Cluj-Napoca, Hoia-forest, sweep-net, 13.VII.2002.

Sphaeripalpus viridis Förster, 1841 (= *S. grandiclava* Thomson, 1876) - 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000.

Sphegigaster pallicornis (Spinola, 1808) (= *S. flavicornis* Walke, 1833) - 1 ♀, Cluj-Napoca, City, window, 18.II.2002.; 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 18.VI.2000.

Seladerma laetum WALKER, 1834 - 1 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Macroglenes bouceki GRAHAM, 1969 - 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Homoporus luniger (NEES, 1834) - 2 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Psilocera atra (WALKER, 1834) - 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 01.V.2001.

Psilocera crassispina (THOMSON, 1878) - 1 ♂, Cluj-Napoca, Hoia-forest, sweep-net, 13.VII.2002.; 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000.; 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 01.V.2001.

- Psilocera obscura* WALKER, 1833 – 1♂, Cluj-Napoca, Hoia-forest, sweep-net, 22.VII.2002
- Sceptrothelys parviclava* GRAHAM, 1969 – 1♀, Cluj-Napoca, Fânațe, Natural Reserve, sweep-net, 01.V.2001.
- Pteromalus bedeguaris* THOMSON, 1878 – 2♀ 1♂, Cluj-Napoca, Fânațe, ex. *Diplolepis rosae*, 05.IV.2000.
- Pteromalus altus* (WALKER, 1834) – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
- Pteromalus intermedius* (WALKER, 1834) – 1♀, Cluj-Napoca, City, window, 27.IX.2001.
- Pteromalus conformis* (GRAHAM, 1969) – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
- Cecidostiba adana* ASKEW, 1961 – 1♀, Cluj-Napoca, City, ex. *Andricus quercuscalicis*, 24.IX.2001.; 1♀ 2♂, Cluj-Napoca, Botanical garden, ex. *Andricus quercuscalicis*, 22.XI.2000.
- Caenacis inflexa* (RATZEBURG, 1848) – 1♀, Cluj-Napoca, Fânațe, ex. *Diplolepis rosae*, 05.VII.2001.
- Stenomalina liparae* (GIRAUD, 1863) – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
- Stenomalina muscarum* (LINNAEUS, 1758) – 1♀, Cluj-Napoca, City, window, 25.II.2002.
- Mesopolobus fasciiventris* WESTWOOD, 1833 – 1♂, Cluj-Napoca, Botanical garden, ex. *Neuroterus quercusbaccarum*, 22.XI.2000.
- Pseudocatolaccus nitescens* (WALKER, 1834) – 1♀, Cluj-Napoca, City, window, 05.IX.2001.
- Cyclogastrella clypealis* BOUČEK, 1965 – 1♀, Cluj-Napoca, City, window, 25.II.2002.

Eupelmidae WALKER, 1833

- Eupelmus urozonus* DALMAN, 1820 – 1♀, Cluj-Napoca, Făget-forest, ex. *Andricus quercuscalicis*, 16.VI.2001.; 1♀, Cluj-Napoca, Hoia-forest, *Q. pubescens*, 21.II.2002.; 1♀, Cluj-Napoca, Făget-forest, ex. *Diplolepis rosae*, 20.XII.2000.
- Eupelmus annulatus* NEES 1834 – 1♀, Cluj-Napoca, Hoia-forest, from an *Andricus coriarius* gall, 06.X.2002.
- Eupelmus (Eupelmella) vesicularis* (RETZIUS, 1783) – 2♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000.; 1♀, Cluj-Napoca, Hoia-forest, sweep-net, 13.VII.2002.; 1♀, Bogata de Arieș, sweep-net, 06.V.2001.
- Merostenus excavatus* (DALMAN, 1820) – 1♀, Bogata de Arieș, sweep-net, 06.V.2001.
- Calosota vernalis* CURTIS, 1836 – 1♀, Cheile Turzii, sweep-net, 27.IV.2002.

Chalcididae LATREILLE, 1817

- Kriechbaumerella (=Eucepsis) hofferi* (BOUČEK, 1952) – 1♀, Cluj-Napoca, Fânațe, sweep-net, 29.IV.2001.

Ormyridae FÖRSTER, 1856

Ormyrus nitidulus (FABRICIUS, 1804) – 1 ♀, Cluj-Napoca, Hoia-forest, from a *Quercus* leaf, 05.X.2001.

Ormyrus diffinis (FONSCOLOMBE, 1832) – 2 ♀ 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Eurytomidae WALKER, 1832

Eurytoma aspila (WALKER, 1836) – 1 ♂, Cluj-Napoca, Fânațe, sweep-net, VI.2000.

Eurytoma rosae NEES, 1834 – 1 ♀, Cluj-Napoca, Fânațe, ex. *Diplolepis rosae*, IV.1999.

Eurytoma curta WALKER, 1832 – 1 ♂, Cluj-Napoca, Făget-forest, ex. *Cirsium* sp., 27.VI.2001.

Bruchophagus platypterus (WALKER, 1834) – 1 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Sycophila biguttata (SWEDERUS, 1795) – 1 ♀, Cluj-Napoca, Hoia-forest, de pe foaie de *Quercus*, 05.X.2001.

Tetramesa cereipes ERDŐS, 1955 – 4 ♀♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Tetramesa hordei (HARRIS, 1830) – 1 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Tetramesa longicollis HEDICKE, 1920 – 2 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Aphelinidae THOMSON, 1876

Aphelinus daucicola KURDJUMOV, 1913 – 1 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Eulophidae WESTWOOD, 1829

Aprostocetus westwoodi (FONSCOLOMBE, 1840) – 2 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Entedon diotimus WALKER, 1839 (= *E. transversalis* ERDŐS, 1944) – 1 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Encyrtidae WALKER, 1837

Xenaphycus vigil (ERDŐS, 1957) (= *Paraphycus vigil*) – 1 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Mira mucora SCHELLENBERG, 1803 (= *M. macrocera*) – 1 ♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Charytopus obscurus ERDŐS, 1946 – 2 ♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Tetracnemus diversicornis WESTWOOD, 1839 (*T. pulchripennis*) – 1♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
Copidosoma budense ERDŐS, 1955 – 1♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000

Torymidae WALKER, 1833

Torymus druparum BOHEMAN, 1834 – 5♀♀ 1♂, Cluj-Napoca, Fânațe, sweep-net, 18.VI.2000.
Torymus cyaneus WALKER, 1847 – 1♀, Cluj-Napoca, Făget-forest, ex *Cynips longiventris*, 13.III.2000.
Torymus bedeguaris (LINNAEUS, 1758) – 1♀, Cluj-Napoca, Fânațe, ex *Diplolepis rosae*, IV-VI.1999.
Torymus auratus (GEOFFROY, 1785) – 1♀, Cluj-Napoca, Botanical garden, ex *Cynips longiventris*, 20.XII.2000.
Torymus chloromerus WALKER, 1833 (= *T. euphorbiae* RUSCHKA, 1921) – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
Torymus rubi (SCHRANK, 1781) – 3♀♀, Cluj-Napoca, Făget-forest, ex *Diplolepis rosae*, 20.XII.2000.
Monodontomerus obscurus WESTWOOD, 1833 – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
Monodontomerus vicicellae WALKER, 1847 – 1♂, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
Gliphomerus stigma (FABRICIUS, 1793) – 1♀ 1♂, Cluj-Napoca, Fânațe, ex *Diplolepis rosae*, 05.IV.1999.
Pseudotorymus stachydis MAYR, 1874 – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
Torymoides sulcius (WALKER, 1839) (= *Torymus ventralis* HOWARD, 1897) – 1♀, Cluj-Napoca, Fânațe, sweep-net, 13.V.2000
Megastigmus stigmatizans (FABRICIUS, 1798) – 2♀♀, Cluj-Napoca, Hoia-forest, *Quercus pubescens*, ex *Andricus kollari*, 14.IV.2002.; 1♂, Cluj-Napoca, Botanical garden, ex *Andricus quercuscalicis*, II.2001.

Comments

The species *Eupelmus* (*Eupelmella*) *vesicularis* was mentioned by BOȚOC (1958) from Cluj-Napoca. *Eupelmus urozonus*, and *Ormyrus nitidulus* was also mentioned by BOȚOC (1958) from the Hoia-forest. *Sycophila biguttata* was reared by TUDOR (1966) from galls of *Andricus gallaetinctoriae*, from the Hoia-forest, as well as by BOȚOC (1957). *Torymus auratus* was reared by TUDOR (1966), from galls of *Cynips quercusfolii* collected from Făget-forest, and from galls of *Cynips quercus*, from Hoia-forest.

Altogether from 62 species 54 species are presented for this area for the first time. Even if, these species have been already published from Romania, this data contribute to the knowledge of their distribution.

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