

# A CONTRIBUTION TO BRACONIDAE, HYBRIZONTIDAE (HYMENOPTERA: ICHNEUMONOIDEA) AND STEPHANIDAE (HYMENOPTERA: STEPHANOIDEA) FROM THE SOUTH-WEST BALKANS

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## Abstract

Below is a contribution of faunistic data of forty-two species belonging to the twelve braconid subfamilies and two species of the families Hybrizontidae and Stephanidae. Material has been collected from the South-West Balkans (Serbia, Montenegro, Former Yugoslav Republic of Macedonia and Greece). There were twenty species newly recorded for certain national faunas. One of the most interesting findings was *Biacus (Ganychorus) striatus* VAN ACHTERBERG, the micropterous species known from the Nearctic region of Alberta, Canada, VAN ACHTERBERG (1988).

KEY WORDS: Hymenoptera, Braconidae, new records, Serbia, Montenegro, FYROM

## Introduction

The fauna of Braconidae in the territory of the southwest Balkans has been frequently investigated and updated for over 35 years: for Serbia and former Yugoslavia by PAPP (1973, 1977), BRAJKOVIĆ (1989), BRAJKOVIĆ *et al.* (1991, 1994), ŽIKIĆ *et al.* (1999) BELOKOBYLSKIJ & ŽIKIĆ (2009), and for Greece by PAPP (1992, 1985, 1990, 1999, 2003, 2007).

## Material and Methods

Parasitic wasps were collected mainly from high mountain habitats (1200 – 2000 m a.s.l.) From Serbia: Mt. Kopaonik, Mt. Stara and the Vlasina Lake; and from Montenegro: Mt. Durmitor and Lake Plav. As well, some samples were collected from two canyons of the Sušica and the Komarnica Rivers in Montenegro, and in Serbia from the Sićevo gorge which belongs to an area strongly influenced by the Mediterranean. The rest of the material was collected from lowlands (meadows and orchards) mostly from the surroundings of Niš, Beograd, Prokuplje and Draževac or the cotton fields in Greece, Thessaloniki, on *Gossypium* sp. ex caterpillars of *Pectinophora gossypiella* (Lepidoptera: Gelechiidae). Only one specimen from the Former Yugoslav Republic of Macedonia (F.Y.R.O.M.) has been included in this investigation. All material was collected by the sweeping method, Malaise and light traps, except *Microchelonus rimatus* which is reared from *Pectinophora gossypiella*.

All specimens are deposited in the Faculty of Sciences, Department of Biology and Ecology, Niš, Serbia.

## Results and Discussion

The examination has shown that 42 species of collected specimens belong to the following ichneumonoid families: Braconidae (41), Hybrizontidae (1) and Stephanidae (1). The total of 40 braconid species were reported from 12 subfamilies (22 genera) (Tab. I). The number of confirmed species is presented according to subfamilies (the number of the respective genera is given in brackets): Adeliinae: 1 species (1 genus), Agathidinae: 10 species (5 genera), Alysiinae/Alysiini: 2 apterous species (2 genera), Alysiinae/Dacnusiini: 2 species (1 genus), Blacinae: 4 species (2 genera), Brachistinae: 2 species (2 genera), Braconinae: 1 species (1 genus), Charmontinae: 1 species (1 genus), Cheloninae: 6 species (3 genera), Euphorinae: 3 species (1 genus), Helconinae: 2 species (1 genus), Homolobinae: 2 species (1 genus), Macrocentrinae: 4 species (1 genus).

There are four new recorded genera for the fauna of Serbia and Montenegro: *Rhamphagathis* represented by the species *R. nasicornis*, *Chasmodon* by *Ch. apterus*, *Blacometeorus* by *B. pussilus*, and *Charmon* by *Ch. cruentatus*.

### Faunistic list

In this list the families, subfamilies, genera (Tab. I) and species are arranged alphabetically. The samples are presented by the country and chronologically by the date. The species new to the fauna of the southwest Balkans in this review are marked by an asterisk (\*).

#### Family Braconidae

##### Subfamily Adeliinae

*Adelius subfasciatus* Haliday, 1833 – 1♀, Serbia: Obrenovac: Draževac, 30.07.-06.08.1994 (Mal. Trap), leg. Lj. Mihajlović; 1♀, Montenegro: Mt. Durmitor: Lake Valovito, 20.07.2004, leg. V. Žikić.

## Subfamily Agathidinae

*Agathis anglica* Marshall, 1885 – 1♂, Montenegro: Mt. Durmitor: Podgora, 14.08.1986; 1♂, Pitomine (1450 m a.s.l.), 27.06.1988; 1♀, Komarnica: Canyon, 21.07.2004; 2♂, Serbia: Prokuplje: Kostolac, 06.07.1987; 1♀, Mala Draguša, 22.08.1987, leg. A. Četković; 1♀, Serbia: Mt. Zlatibor, 31.07.1982; 1♂, Mt. Stara: Topli Do, 13.07.1989, leg. M. Brajković 2♂, Serbia: Draževac, 30.07.-06.08.1994 (Mal. Trap), leg. Lj. Mihajlović; 1♂, Serbia: Sićevo gorge, 15.08.1997, 1♂, 16.09.1997, leg. V. Žikić.

\* *Agathis fulmeki* Fischer, 1957 – 1♂, Serbia: Mt. Tara: Šljivovica, 16.08.1982, leg. M. Brajković; 1♀, Montenegro: Mt. Durmitor: Pitomine (1450 m a.s.l.), 27.06.1988, leg. A. Četković.

\* *Agathis griseifrons* Thomson, 1895 – 1♀, Serbia: Knjaževac, 11.07.1996, leg. S. Vasilijić.

*Agathis montana* Shestakov, 1932 – 1♂, Serbia: Bujanovac: Rogačica, 11.08.1982, 1♀, Mt. Stara: Topli Do, 13.07.1989, leg. M. Brajković; 9♀, 1♂, Montenegro: Mt. Durmitor: Pitomine (1450 m a.s.l.), 27.06.1988, 1♂, Tara River: Tepce, 30.06.1988, leg. A. Četković.

*Agathis varipes* Thomson, 1895 – 1♀, Serbia: Obrenovac, 13.07.1982, leg. M. Brajković; 1♀, Serbia: Mt. Kopaonik: Bačište, 09.08.1986, leg. A. Četković.

*Bassus conspicuus* (Wesmael, 1837) – 1♀, Serbia: Obrenovac, 13.07.1982, leg. M. Brajković; 1♂, 1♀, Serbia: Deliblatska peščara: Rošijana, 05.07.1997; 1♀, Kostolac, 06.07.1997, leg. A. Četković; 1♀, Serbia: Sićevo gorge, 16.09.1997, leg. V. Žikić.

*Bassus tumidulus* (Nees, 1812) – 1♂, Serbia: Merošina: Dudulajce, 13.07.1988, leg. M. Brajković; 1♂, Serbia: Sićevo gorge, 16.09.1997, 1♀, 12.08.1998, leg. V. Žikić.

*Cremnops desertor* (Linnaeus, 1758) – 1♀, Serbia: Niš, 20.05.2005, leg. V. Žikić.

\* *Disophrys initiator* (Fonscolombe, 1846) – 1♀, Serbia: Sićevo gorge, 15.08.1997; 1♀, 11.07.1998; 1♀, Niš: Popovac, 30.07.2002, leg. V. Žikić; 1♂, Serbia: Draževac, 30.07.-06.08.1994 (Mal. Trap), leg. Lj. Mihajlović.

\* *Rhamphagathis nasicornis* (Telenga, 1955) – 2♀, Serbia: Palić, 08.09.1985, leg. M. Brajković.

## Subfamily Alysiinae

\* *Chasmodon apterus* (Nees, 1812) – 1♀, Montenegro: Ulcinj, 27.04.1995, leg. M. Brajković.

*Pseudopezomachus cursitans* (Ferrière, 1930) – 1♀, Montenegro: Mt. Durmitor: Podgora, 14.07.1986, leg. A. Četković.

*Coelinidea nigra* (Nees, 1811) – 1♂, Montenegro: Mt. Durmitor: Žabljak, 03.07.2002, leg. V. Žikić.

*Coelinidea gracilis* Haliday, 1829 – 1♂, Serbia: Mt. Kopaonik: Bačište, (1500 -1680 m a.s.l.) 16.07.1987, leg. A. Četković.

## Subfamily Blacinae

\* *Blacometeorus pusillus* (Hellén, 1958) – 1♂, Montenegro: Mt. Durmitor: Lake Barno, 01.07.2002, leg. V. Žikić.

\* *Blacus (Blacus) longipennis* (Gravenhorst, 1809) – 1♂, FYROM: Tetovo: Gajre, 17.06.1987, leg. A. Četković.

\* *Blacus (Blacus) paganus* (Haliday, 1835) – 2♂, Serbia: Mt. Stara: Jabločko ravnište (1500-1550 m a.s.l.), 17.06.1987, leg. A. Četković.

\* *Blacus (Ganychorus) striatus* van Achterberg, 1976 – 1♀, Montenegro: Mt. Durmitor: Podgora, 14.08.1986, leg. A. Četković.

## Subfamily Brachistinae

*Eubazus (Eubazus) pallipes* (Nees, 1812) – 1♀, Serbia: Niš: Popovac, 20.04.2002, leg. V. Žikić.

\* *Polydegmon sinuatus* Foerster, 1862 – 1♀, Serbia: Kopaonik: Treska, (1450-1550 m a.s.l.), leg. A. Četković.

## Subfamily Braconinae

*Bracon (Rostrobracon) urinator* Fabricius, 1798 – 3♀, Serbia: Avala, 14.09.2009. leg. A. Četković.

## Subfamily Charmontinae

\* *Charmon cruentatus* Haliday, 1833 – 9♂, 15♀, Montenegro: Mt. Durmitor: Sušica Lake (1100-1200 m a.s.l.), (Light Trap), leg. A. Četković; 1♂, 1♀ Žabljak, (1850-1920m a.s.l.), 07.06.1985, Leg. D. Pavićević; 1♂, Serbia: Draževac (Mal. Trap), 30.07.-06.08.1994, leg. Lj. Mihajlović.

## Subfamily Cheloninae

*Microchelonus retusus* Nees, 1816 – 1♀, Montenegro: Mt. Durmitor: Sušica Lake (1100-1200 m a.s.l.), (Light Trap), 13.08.1986, leg. A. Četković.

\* *Chelonus (Microchelonus) rimatus* Szépligeti, 1896 – 2♂, 1♀, Greece: Thessaloniki, 08.2002, ex *Pectinophora gossypiella* (Lepidoptera: Gelechiidae) on *Gossypium* sp. leg. N. G. Kavalliaratos.

*Phanerotoma (Phanerotoma) acuminata* Szépligeti, 1908 – 3♀, Serbia: Draževac (Mal. Trap), 16-30.06.1993; 1♂, 6♀, 30.07.-06.08.1994; 3♀, 07-12.08.1994; 1♂, 2♀, 12-18.08.1995, leg. Lj. Mihajlović; 1♀, Serbia: Vlasina Lake (1200m a.s.l.), 10.06.2009, leg. V. Žikić; 2♀, Montenegro: Džabasanska Gradina, 17-20.07.2001, leg. D. Pavićević.

\* *Phanerotoma (Phanerotoma) atra* Šnoflák, 1951 – 1♀, Serbia: Sicevo Gorge: Sicevo village, 23.07.1998, leg. V. Žikić.

\* *Phanerotoma (Phanerotoma) ocellaris* (Kohl, 1906) – 1♀, Serbia: Draževac (Mal. Trap), 06-11.08.1995, leg. Lj. Mihajlović.

*Phanerotomella rufa* (Marshall, 1898) – 1♀, Serbia: Draževac (Mal. Trap), 23-31.07.1995, leg. Lj. Mihajlović.

#### Subfamily Euphorinae

\* *Zelee caligatus* (Haliday, 1835) – 1♀, Serbia: Vlasina Lake (1200 m a.s.l.), (Light Trap), 10.05.2009, leg. V. Žikić.

*Zelee chlorophthalmus* (Spinola, 1808) – 1♀, Montenegro: Lake Plav: Vusanje, 20.07.2006, leg. V. Žikić.

*Zelee deceptor* (Wesmael, 1835) – 1♀, Serbia: Beograd, Voždovac, 25.06.1981, leg. A. Četković; 1♀, 31.05.1984, leg. J. Bjelić; 3♀, Vlasina Lake (1200 m a.s.l.), (Light Trap), 10.05.2009, leg. V. Žikić.

#### Subfamily Helconinae

*Helcon angustator* Nees, 1812 – 1♂, Serbia: Vučje (Mal. Trap), 06.05.-14.06.1996, leg. Lj. Stanisavljević; 1♀, Niš: Mediana, 01.07.2009, leg. V. Žikić.

*Helcon tardator* Nees, 1812 – 1♀, Serbia: Kruševac, 01.06.1986, leg. A. Četković.

#### Subfamily Homolobinae

*Homolobus annulicornis* Nees, 1834 – 1♀, Serbia: Belgrade: Raja: Grkovo, 10.10.1988, leg. D. Pavićević; 1♀, Niš: Pantelej, 04.10.2009; 1♀, (Light Trap), 30.09.2008, leg. V. Žikić.

\* *Homolobus infumator* (Lyle, 1914) – 1♀, Serbia: Niš: Pantelej, 20.07.2006, leg. V. Žikić.

#### Subfamily Macrocentrinae

*Macrocentrus bicolor* Curtis, 1833 – 1♂, Serbia: Beograd: Voždovac, 23.08.1982; 1♀, 07.09.1982; 1♀, 27.08.1983; 2♀, 10.09.1984; 1♀, 13.09.1984, leg. A. Četković.

\* *Macrocentrus blandus* Eady & Clarck, 1964 – 1♂, Serbia: Mt. Kopaonik: Bačište (1680 m a.s.l.), 16.07.1987, leg. A. Četković; 1♂, Niš: Popovac, 10.05.2007, leg. V. Žikić.

\* *Macrocentrus collaris* (Spinola, 1808) – 1♀, Montenegro: Mt. Durmitor: Sušica Lake (1100-1200 m a.s.l.), 13.08.1986; 1♀, Komarnica, 26.06.1988; 1♀, Lake Barno, 02.07.1988, leg. A. Četković; 1♀, Lake Valovito, 20.07.2004; 1♂, Lake Plav: Vusanje (1350 m a.s.l.) 20.07.2006, leg. V. Žikić.

\* *Macrocentrus hungaricus* Marshall, 1893 – 1♀, Serbia: Mt. Kopaonik: Polja (1580-1630 m a.s.l.); 1♀, Kostovac (1500-1570 m a.s.l.), 1♀, Montenegro: Mt. Durmitor: Sušica Lake (1100-1200 m a.s.l.), 13.08.1986; leg. A. Četković.

## Family Hybrizontidae

\* *Hybrizon buccatus* (de Brébisson, 1825) – 3♀, Montenegro: Mt. Durmitor: Škrka Lake, 04.07.2002, leg. V. Žikić.

## Family Stephanidae

*Stephanus serator* Fabricius, 1798 1♀, Serbia: Niš: Popovac (Mal. Trap), 01-15.06.2006, leg. V. Žikić.

Table I. The list of recorded families, subfamilies and genera

Family	Subfamily	Genus	Number of species	
Braconidae	Adeliinae	<i>Adelius</i>	1	
	Agathidinae	<i>Agathis</i>	5	
		<i>Bassus</i>	2	
		<i>Disophrys</i>	1	
		<i>Cremonops</i>	1	
		<i>Rhampagathis</i> *	1	
		Alysiinae	<i>Chasmodon</i> *	1
			<i>Pseudopezomachus</i>	1
	<i>Coelinidea</i>		2	
	Blacinae	<i>Blacometeorus</i>	1	
		<i>Blacus</i>	3	
	Brachistinae	<i>Eubazus</i>	1	
		<i>Polydegmon</i>	1	
	Braconinae	<i>Bracon</i>	1	
	Charmontinae	<i>Charmon</i> *	1	
	Cheloninae	<i>Microchelonus</i>	2	
		<i>Phanerotoma</i>	3	
		<i>Phanerotomella</i>	1	
	Euphorinae	<i>Zelee</i>	3	
	Helconinae	<i>Helcon</i>	2	
Homolobinae	<i>Homolobus</i>	2		
Macrocentrinae	<i>Macrocentrus</i>	4		
Hybrizontidae		<i>Hybrizon</i> *	1	
Stephanidae		<i>Stephanus</i>	1	
			Σ 42	

\* - Genera with species newly recorded for the area of SW Balkans.

## Conclusion

In this paper 42 species are presented: 40 species from the family Braconidae, one from Hybrizontidae and one from Stephanidae (Tab I). The Braconid species which are registered in our investigation belong to 12 subfamilies classified in 22 genera. Of the total number, 19 species are newly registered for the investigated area according to the online database Fauna Europaea (VAN ACHTERBERG, 2007). There are 13 newly registered species in the territory of Serbia, for Montenegro there are 7, while for the territory of Greece and FYROM there is one for each (Tab. II). The following species are newly recorded for the fauna of the studied territories: from the family Braconidae: *Agathis fulmeki* Fisher, *Agathis griseifrons* Thomson, *Disophrys initiator* (Foerster), *Rhamphagathis nasicornis* (Telenga), *Chasmodon apterus* (Nees), *Blacometeorus pusillus* (Hellén), *Blacus (Blacus) longipennis* (Gravenhorst), *Blacus (Blacus) paganus* (Haliday), *Blacus (Ganychorus) striatus* van Achterberg, *Polydegmon sinuatus* Foerster, *Charmon cruentatus* Haliday, *Chelonus (Microchelonus) rimatus* Szépligeti, *Homolobus infumator* (Lyle), *Phanerotoma atra* Šnoflák, *Phanerotoma (Ph.) ocularis* (Kohl), *Zele caligatus* (Haliday), *Macrocentrus blandus* Eady & Clarck, *Macrocentrus collaris* (Spinola), *Macrocentrus hungaricus* Marshall and Hybrizontidae: *Hybrizon buccatus* (de Brébisson).

Table II. List of newly recorded species in certain countries of Balkan Peninsula.

Family	Subfamily	Species	Country
Braconidae	Agathidinae	<i>Agathis fulmeki</i> Fischer	Serbia, Montenegro
		<i>Agathis griseifrons</i> Thomson	Serbia
		<i>Disophrys initiator</i> (Foerster)	Serbia
		<i>Rhamphagathis nasicornis</i> (Telenga)	Serbia
	Alysiinae	<i>Chasmodon apterus</i> (Nees)	Montenegro
	Blacinae	<i>Blacometeorus pusillus</i> (Hellén)	Montenegro
		<i>Blacus (B.) longipennis</i> (Gravenhorst)	FYROM
		<i>Blacus (B.) paganus</i> (Haliday)	Serbia
		<i>Blacus (G.) striatus</i> van Achterberg	Montenegro
	Brachistinae	<i>Polydegmon sinuatus</i> Foerster	Serbia
	Charmontinae	<i>Charmon cruentatus</i> Haliday	Serbia, Montenegro
	Cheloninae	<i>Chelonus (Microchelonus) rimatus</i> Szépligeti	Greece
		<i>Phanerotoma (Ph.) atra</i> Šnoflák	Serbia
		<i>Phanerotoma (Ph.) ocularis</i> (Kohl)	Serbia
	Euphorinae	<i>Zele caligatus</i> (Haliday)	Serbia
	Homolobinae	<i>Homolobus infumator</i> (Lyle)	Serbia
	Macrocentrinae	<i>Macrocentrus blandus</i> Eady & Clarck	Serbia
		<i>Macrocentrus collaris</i> (Spinola)	Montenegro
		<i>Macrocentrus hungaricus</i> Marshall	Serbia, Montenegro
Hybrizontidae	<i>Hybrizon buccatus</i> (de Brébisson)	Montenegro	

The most abundant species in this investigation was *Charmon cruentatus* (Charmontinae) with 27 specimens. The next were *Phanerotoma (P.) acuminata* (Cheloninae) with 18 specimens and *Agathis anglica*

(Agathidinae) with 12. All three mentioned species were found in the territory of Montenegro and Serbia. The finding of *Blacus (G.) striatus* (Blacinae) was unexpected because this species was believed to exist only in the Nearctic region (Alberta and Canada). This fact can imply that this species may have been accidentally introduced. The species *Hybrizon buccatus* (Hybrizontidae) is new for the investigated territory of Montenegro.

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### References

- ACHTERBERG, C. VAN, 2004. Fauna Europaea: Braconidae. *In*: van Achterberg (ed.): Fauna Europaea: Hymenoptera: Symphyta + Ichneumonidea. Fauna Europaea, Version 1.1. <http://www.faunaeur.org>
- ACHTERBERG, C. VAN, 1988. Revision of the subfamily Blacinae Foerster (Hymenoptera: Braconidae). Zoologische Verhandelingen, Leiden, 249.
- BELOKOBYSKIJ, S.A. & Žikić, V., 2009. New data on cyclostome braconid subfamilies Doryctinae, Exothecinae, Rogadinae and Braconinae (Hymenoptera: Braconidae) of Serbia and neighbouring territories, *Acta Entomologica Serbica*, 14(1): 65-71.
- BRAJKOVIĆ, M., 1989. Knowledge of the Braconidae (Hymenoptera) fauna in Yugoslavia. *Glasnik Prirodjačkog muzeja*, B(43/44): 127-138. [in Serbian, with English s.]
- BRAJKOVIĆ, M., KRUNIĆ, M. & TOMANOVIĆ, Ž., 1991. A Contribution to the braconid Fauna (Braconidae: Hymenoptera) of Yugoslavia. *In*: Hawksworth, D.L. (ed.): Proceedings of the Fourth European Congress of Entomology and the XIII Internationale Symposium für Entomofaunistik Mitteleuropas, Hungarian Natural History Museum, Budapest, Vol. 2: 424-428.
- BRAJKOVIĆ, M., KRUNIĆ, M. & TOMANOVIĆ, Ž., 1994. Research of braconids (Braconidae: Hymenoptera) of Deliblatska peščara. *In*: Marinković, P. (ed.): Proceedings of Deliblatski pesak, Srbijašume, 6: 197-502 [in Serbian].
- PAPP, J., 1973. Contributions to the braconid fauna of Yugoslavia (Hymenoptera, Braconidae). *Acta Musei Macedonici Scientiarum Naturalium*, XIV, 1: 119-123.
- PAPP, J., 1977. Contribution to the Braconid fauna of Yugoslavia. (Hymenoptera: Braconidae) III. *Folia Entomologica Hungarica (Series nova)*, 30: 105-117.
- PAPP, J., 1982. Braconidae (Hymenoptera) from Greece, 1. *Annales Musei Goulandris*, 5, pp.: 183-193.
- PAPP, J., 1985. Braconidae (Hymenoptera) from Greece, 2. *Annales historico-naturales Musei nationalis hungarici*, 77, pp.: 217-226.
- PAPP, J., 1990. Braconidae (Hymenoptera) from Greece, 3. *Annales Musei Goulandris*, 8, pp.: 269-290.
- PAPP, J., 1999. Braconidae (Hymenoptera) from Greece, 4. *Annales Musei Goulandris*, 10, pp.: 223-247.
- PAPP, J., 2003. Braconidae (Hymenoptera) from Greece, 5. *Notes fauniques de Gembloux*, 53, pp.: 21-54.
- PAPP, J., 2007. Braconidae (Hymenoptera) from Greece, 6. *Notes fauniques de Gembloux*, 2007, 60(3): 99-127.



ŽIKIĆ, V., BRAJKOVIĆ, M. & TOMANOVIĆ, Ž., 2000. Preliminary results of Braconid fauna research (Braconidae: Hymenoptera). *Acta entomologica serbica*, 5(1/2): 95-111.

ПРИЛОГ ПОЗНАВАЊУ ФАУНЕ БРАКОНИДА, ХИБРИЗОНТИДА  
(ICHTHEUMONOIDEA: HYMENOPTERA)  
И СТЕФАНИДА (STEPHANOIDEA: HYMENOPTERA)  
ЈУГОЗАПАДНОГ БАЛКАНА

ВЛАДИМИР ЖИКИЋ, КЕЕС ВАН АХТЕРБЕРГ И САША СТАНКОВИЋ

Извод

У овом раду приказане су 42 врсте паразитских оса из фамилија Braconidae, Hybrizontidae и Stephanidae прикупљене на подручју југозападног Балкана. Највећи број узорака прикупљен је на различитим локалитетима у Србији и Црној Гори и по један узорак са територије Грчке и Бивше Југословенске Републике Македоније (Таб. I). Укупно 40 идентификовани таксон припада породици Braconidae. Таксони су класификовани у 20 родова, односно 12 потпородица: Adeliinae: 1 врста (1 род), Agathidinae: 10 врста (5 родова), Alysiinae/Alysiini: 2 бескрилне врсте (2 рода), Alysiinae/Dacnusiini: 2 врсте (1 род), Blacinae: 4 врсте (2 рода), Brachistinae: 2 врсте (2 рода), Braconinae: 1 врста (1 род), Charmontinae: 1 врста (1 род), Cheloninae: 6 врста (3 рода), Euphorinae: 3 врсте (1 род), Helconinae: 2 врсте (1 род), Homolobinae: 2 врсте (1 род), Macrocentrinae: 4 врсте (1 род). Породице Hybrizontidae и Stephanidae представљене су са по једном врстом. Број новорегистрованих врста за истраживано подручје је 22 (Таб. II). Регистрована су и четири нова рода за фауну Србије и Црне Горе: *Rhamphagathis* представљен врстом *R. nasicornis*, *Chasmodon* врстом *Ch. apterus*, *Blacometeorus* врстом *B. pussilus* и *Chasmodon* врстом *C. cruentatus*.

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