

PRELIMINARY RESULTS OF BRACONID FAUNA RESEARCH (HYMENOPTERA: BRACONIDAE) FOUND IN SIĆEVO GORGE, SERBIA

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The parasitic wasp fauna of family Braconidae inhabiting Sićevo Gorge has been investigated during the period of 1995-1999. We have recorded 234 species belonging to 65 genera from 18 subfamilies. Both ecto and endoparasit groups of braconids have been registered. Most species pertaining to subfamily Aphidiinae have been collected from the hosts. There are 112 new species registered for the fauna of Serbia.

KEY WORDS: Hymenoptera, Braconidae, Sićevo Gorge, Serbia.

INTRODUCTION

Up to date the family Braconidae has been presented by 13000 described species (van ACHTERBERG (1984) in the world fauna, mostly from the Holarctic. In European fauna 2000 species is known from about 150 genera TOBIAS, BELOKOBILSKIJ & KOTENKO (1986).

Systematically, the family BRACONIDAE has been investigated in Serbia by the following entomologists: PAPP (1973, 1975, 1977) BRAJKOVIĆ (1987, 1988, 1989a, 1989b), BRAJKOVIĆ *et al.* (1991, 1992, 1994, 1995, 1996, 1997); TOMANOVIĆ *et al.* (1995, 1996, 1998,) and ŽIKIĆ (1995, 1999), & ŽIKIĆ *et al.* (1999).

MATERIAL AND METHODS

Collecting of insects was conducted mostly by using catcher, but also using light traps and rearing from the hosts. Sićevo Gorge is located between two mountain massifs: Mt. Svrljiške and Mt. Stara, spreading E-W. Because of its location

it was a good shelter for the most animal and plant species during the period of glaciation. Certain species of recent flora and fauna living there present endemorelic species indigenous to the Balkan Peninsula. In this Gorge the great influence of Mediterranean climate is present. Geo-morphologically, Sićevo Gorge is of polygenetic origin, mostly composed of chalk. The localities situated in Sićevo Gorge and its surrounding area are: Prosek, Sićevo, Ostrovica, Kunovica, Niš, Niška Banja, Gornji Matejevac, Donja Vrežina and Pasjača. The world's catalogue of Braconidae has been used to compare the research results (SHENEFELT, 1969, 1970a, 1970b, 1972, 1973a, 1973b, 1974, 1975).

The specimens are deposited in the Institute of Zoology, Faculty of Biology, Belgrade, Serbia.

A Review of collected braconid subfamilies and species

Subfamily ADELIINAE

Adelius subfasciatus Haliday: Sićevo, 20 IX 1997, 1 ♀.

Subfamily AGATHIDINAE

**Agathis duplicata* Shestakov: Ostrovica, 17 VII 1996, 2 ♀ ♀; Prosek, 15 VIII 1997, 1 ♀; Pasjača, 05 IX 1997, 1 ♀; Pasjača, 13 IX 1997, 1 ♂.

**Agathis schmiedeknechti* Kokujev: Prosek, 15 VIII 1997, 1 ♂, 16 IX 1997, 1 ♂.

**Disorphys caesa* (Klug): Pasjača, 12 VII 1998, 1 ♀, 11 VIII 1998, 2 ♀ ♀.

**Earinus elator* (Fabricius): Sićevo, 4 III 1997, 1 ♀.

Subfamily ALYSIINAE

Alysia manducator Panzer: Pasjača, 21 IV 1996, 1 ♀; Sićevo, 24 IV 1996, 1 ♂, 1 ♀, 22 IX 1997, 1 ♀.

**Alysia nigripennis* Thomson: Niš, 05 V 1996, 1 ♀.

Alysia sophia Haliday: Ostrovica, 25 V 1996, 1 ♂.

**Alysia soror* Marshall: Sićevo, 10 V 1998, 1 ♂, 14 X 1996, 1 ♂.

**Alysia* sp: Sićevo, 24 XI 1997, 1 ♂.

**Aphaereta brevis* Tobias: Prosek, 15 V 1996, 1 ♂; 15 VIII 1996, 7 ♂ ♂, 13 ♀ ♀; 29 XI 1997, 1 ♂; Ostrovica, 28 IV 1996, 1 ♂; 23 IV 1996, 2 ♂ ♂, 2 ♀ ♀; 15 V 1997, 1 ♀; 27 VII 1997, 1 ♀; 29 IX 1997, 8 ♂ ♂; Sićevo, 15 V 1996, 2 ♂ ♂, 5 ♀ ♀; 27 VII 1996, 1 ♂, 1 ♀; 27 VIII 1996, 1 ♂, 1 ♀; 22 IX 1997, 21 ♂ ♂, 8 ♀ ♀, 15 VIII 1 ♂; 15 VII 1997, 37 ♀ ♀; Gornji Matejevac, 10 VII 1996, 1 ♂; Niš, 05 V 1996, 1 ♂, 2 ♀ ♀;

15 VIII 1997, 1 ♂, 4 ♀ ♀; Donja Vrežina, 29 VIII 1996, 1 ♂, 1 ♀; Niška Banja, 23 X 1996 1 ♀; Pasjača, 19 V 1996, 2 ♂ ♂; 20 X 1996, 9 ♂ ♂, 1 ♀.

**Aphaereta major* Thomson: Ostrovica, 15 V 1997, 1 ♀.

**Aphaereta minuta* (Nees von Esenbeck): Ostrovica, 29 IX 1997, 1 ♀.

**Aphaereta stigmatalis* Thomson: Ostrovica 15 V 1998, 1 ♀, Niš, 15 VIII 1997, 1 ♀

Aphaereta sp.: Prosek, 15 V 1996, 1 ♂; 15 VIII 1996, 3 ♂ ♂, 1 ♀; 29 XI 1997, 1 ♂; Pasjača, 21 VIII 1997 1 ♂; Ostrovica, 28 IV 1996, 1 ♂; 15 V 1997, 1 ♀; 16 IX 1997, 1 ♀; 29 IX 1997, 1 ♂, 3 ♀ ♀; Sićevo, 15 V 1996, 2 ♂ ♂, 5 ♀ ♀; 27 VIII 1996, 1 ♂; 22 IX 1997, 4 ♂ ♂, 3 ♀ ♀, 15 VIII 1 ♂; 15 VIII 1997, 2 ♀ ♀; Niš, 15 VIII 1997, 1 ♂, 4 ♀ ♀; Gornji Matejevac, 10 VII 1996, 1 ♀; Donja Vrežina, 29 VIII 1996, 1 ♂, 1 ♀.

Asobara tabida (Nees von Esenbeck): Ostrovica, 29 IX 1997, 1 ♂.

**Aspilota ruficornis* (Nees von Esenbeck): Ostrovica, 03 XI 1996, 1 ♂; 15 V 1997, 1 ♂; 01 X 1997, 2 ♂ ♂, 1 ♀; Prosek, 15 V 1996 1 ♀, 20 IX 1996, 1 ♂; 15 VIII 1997, 4 ♂ ♂, 1 ♀; Sićevo, 25 V 1996, 1 ♀; 29 VII 1997, 1 ♂; 29 IX 1997, 2 ♂ ♂, 4 ♀ ♀; Niška Banja, 16 IX 1997, 1 ♀; Niš, 19 V 1996, 1 ♀; 01 X 1996, 1 ♂; 14 X 1996 1 ♂; Pasjača, 20 X 1996, 1 ♀.

Dapsilarthra balteata Thompson: Sićevo, 22 IX 1997, 7 ♂ ♂, 1 ♀; Ostrovica, 16 IX 1997, 4 ♂ ♂, 1 ♀ i Prosek, 14 X 1996, 1 ♀.

**Dapsilarthra levisulca* Griffiths: Sićevo, 22 IX 1997, 1 ♂.

Dapsilarthra sp.: Sićevo, 29 IX 1997, 1 ♀; Ostrovica, 16 IX 1997, 1 ♂.

***Eudinostigma pulvinatum* (Stelfox et Graham): Ostrovica, 15 V 1997, 1 ♀, Prosek, 20 IX 1996, 1 ♀.

Eudinostigma sp. A: Prosek, 15 VIII 1997, 1 ♂.

Eudinostigma sp. B: Ostrovica, 01 X 1997, 1 ♀.

Eudinostigma sp. C: Sićevo, 22 IX 1997, 1 ♂, Niš, 15 VIII 1997, 1 ♂.

**Orthostigma breviradiale* Königsmann: Prosek, 20 IX 1996, 1 ♀; Ostrovica, 13 IX 1996, 1 ♂; Niš, 12 IX 1997, 1 ♀.

Orthostigma pumilum (Nees von Esenbeck): Prosek, 15 VIII 1996, 1 ♂.

**Orthostigma sculpturatum* Tobias: Prosek, 15 VIII 1996, 1 ♂.

Cratospila circe Haliday: Sićevo, 13 IX 1997, 1 ♂.

Cratospila sp.: Pasjača, 19 V 1996, ♀ ♀.

Phaenocarpa eugenia (Haliday): Sićevo, 16 IX 1997, 1 ♀.

Prosapha speculum Haliday: Sićevo, 15 VIII 1997, 4 ♂ ♂; 16 IX 1997, 2 ♂ ♂; 22 IX 1997, 5 ♂ ♂.

Pseudopezomachus bituberculatus (Marshall): Ostrovica, 15 V 1997, 1 ♂.

**Chaenusa nereidum* (Haliday): Ostrovica, 15 V 1996, 1 ♂.

Chorebus affinis (Nees von Esenbeck): Ostrovica, 29 XI 1997, 1 ♂.

Chorebus albipes (Haliday): Ostrovica, 20 V 1996, 2 ♀ ♀; 15 VIII 1996, 1 ♂, 1 ♀; 27 VII 1997, 1 ♀; Prosek, 10 IV 1996, 3 ♀ ♀; Sićevo, 15 VIII 1995, 1 ♀; 28 IV 1996, 1 ♂; 14 X 1996, 2 ♀ ♀; 25 VIII 1997, 1 ♀; Pasjača, 23 IX 1996, 1 ♂; Niš, 18 V 1996, 1 ♀.

**Chorebus anita* (Nixon): 11 ♂ ♂, 16 ♀ ♀. Ostrovica, 15 V 1997, 2 ♂ ♂, 8 ♀ ♀; 10 VI 1997, 1 ♀; Prosek, 10 IV 1996, 1 ♂; 19 V 1996, 1 ♀; 15 V 1997, 2 ♂ ♂, 2 ♀ ♀; 16 IX 1997, 1 ♀; 22 IX 1997, 2 ♂ ♂; 20 X 1997, 1 ♀; Niš, 12 V 1996, 1 ♂; Pasjača, 20 X 1996, 1 ♀; Niška Banja, 23 X 1996, 1 ♀.

**Chorebus baeticus* Griffiths: (1 ♂, 9 ♀ ♀): Ostrovica, 10 V 1996, 1 ♀; Sićevo, 04 X 1996, 1 ♂; Prosek, 14 X 1996, 1 ♀; 19 X 1996, 1 ♀; 15 V 1997, 3 ♀ ♀; Kunovica, 18, 19 V 1996, 2 ♀ ♀.

Chorebus bathyzonus Marshall: Prosek, 10 IV 1996, 2 ♀ ♀; 15 VIII 1998, 1 ♀; Sićevo, 28 VIII 1996, 1 ♀; Pasjača, 12 VII 1997, 1 ♀.

**Chorebus brevicornis* (Thomson): Sićevo, 2 ♀ ♀, 1 ♂, Prosek, 20 V 1996, 1 ♀, 09 IX 1997, 1 ♂, 27 V 1996, 1 ♂.

**Chorebus compressiventris* (Telenga): Sićevo, 14 X 1996, 1 ♀.

**Chorebus concinnus* (Telenga): Prosek, 10 VII 1997, 1 ♂; 15 VIII 1997, 1 ♀; Sićevo, 27 VII 1997, 1 ♂, 1 ♀; 15 VIII 1997, 2 ♂ ♂, 2 ♀ ♀; Ostrovica, 15 V 1996, 1 ♀; 15 VIII 1996, 1 ♀; 27 VII 1997, 2 ♀ ♀; 15 VIII 1997, 1 ♂; VIII 1998; Pasjača, 12 VII 1998, 1 ♂.

**Chorebus cubocephalus* (Telenga): Sićevo, 10 IV 1996, 2 ♀ ♀; 20 V 1996, 3 ♀ ♀; 20 V 1997, 1 ♀; 15 VIII 1997, 2 ♂ ♂, 1 ♀; 18 VIII 1997, 2 ♀ ♀; 13 IX 1997, 3 ♂ ♂, 1 ♀; 12 VIII 1998, 1 ♀; 24 XI 1997, 1 ♂; Prosek, 20 IV 1996, 1 ♀; 15 V 1997, 2 ♂ ♂, 12 ♀ ♀; 15 VIII 1997, 1 ♀; 08 VII 1998, 1 ♀; Pasjača, 03 XI 1996, 1 ♀; Kunovica, 19 V 1996, 1 ♂, 1 ♀; Ostrovica, 05, V 1996, 1 ♂; 12 V 1996, 1 ♀; 18 V 1996, 1 ♂, 04 X 1996, 1 ♀; 14 X 1996, 6 ♂ ♂, 1 ♀; 28 VIII 1996, 1 ♀; Niš, 18 V 1996, 1 ♂.

**Chorebus cylindricus* (Telenga): Ostrovica, 15 V 1997, 1 ♂.

**Chorebus dagda* (Nixon): Ostrovica, 09 IX 1997, 1 ♂.

**Chorebus dirona* (Nixon): Prosek, 15 V 1997, 1 ♀, Ostrovica, 15 V 1997, 2 ♀ ♀.

**Chorebus esbelta* (Nixon): Pasjača, 12 VIII 1998, 1 ♂.

**Chorebus flavipes* (Goureau): Prosek, 13 IX 1997, 1 ♀, Niš, 14 X 1996, 1.

**Chorebus fordi* (Nixon): Sićevo, 10 VI 1996, 1 ♀.

Chorebus fuscipennis (Nixon): Sićevo, 13 IX 1997, 1 ♀.

**Chorebus glaber* (Nixon): Sićevo, 25 X 1996, 1 ♂; 22 IX 1997, 1 ♀; 9 IX 1997,

1 ♀; 15 VIII 1997, 3 ♀ ♀; Ostrovica, 10 IV 1996, 1 ♂; Prosek, 15 VIII 1997, 1 ♀; 13 IX 1997, 1 ♂; Pasjača, 19 V 1996, 1 ♂, 1 ♀; 14 X 1996, 1 ♀; Niš, 03-17 VII, 1997, 23 ♂ ♂, 30 ♀ ♀.

**Chorebus gnaphalii* Griffiths: Sićevo, 18 VII 1997, 1 ♀.

**Chorebus gracilipes* (Thomson): Ostrovica, 15 V 1997, 5 ♀ ♀; 29 VII 1997, 1 ♂; 29 XI 1997, 6 ♂ ♂; Sićevo, 18 V 1996, 1 ♀; 10 VI 1996, 1 ♂; Niš, 14 X 1996, 1 ♂, 1 ♀; Prosek, 15 V 1997, 2 ♀ ♀.

Chorebus gracilis (Nees von Esenbeck): Prosek, 15 V 1997, 3 ♂ ♂; Pasjača, 14 X 1996, 1 ♂.

**Chorebus iridis* Griffiths: Niška Banja, 13 IX 1996, 1 ♂.

**Chorebus kama* (Nixon): Ostrovica, 09 IX 1998, 1 ♀.

**Chorebus lar* (Morley): Ostrovica, 10 IV 1996, 1 ♂; 15 VIII 1996, 1 ♂, 1 ♀; 25 V, 1997, 1 ♀; Prosek, 10 IV 1998, 1 ♂; 15 V 1997, 2 ♀ ♀; 25 V 1997, 1 ♀; 15 VIII 1997, 2 ♀ ♀; 15 V 1998, 2 ♀ ♀; Sićevo, 13 IX 1997, 1 ♀; Pasjača, 19 V 1996, 2 ♀ ♀; 01 VII 1996, 1 ♂; Niš, 27 V 1996, 1 ♂; 01 VII 1996, 1 ♂, 1 ♀; 23 X 1996, 1 ♂.

**Chorebus larides* (Nixon): Prosek, 15 V 1998, 1 ♂.

Chorebus leptogaster (Haliday): Prosek, 15 V 1997, 1 ♀; 15 V 1998, 1 ♀; 15 VIII 6 ♀ ♀; Sićevo, 20 V 1996, 1 ♂; 10 VI 1996, 2 ♀ ♀; 20 X 1996, 2 ♀ ♀; Ostrovica, 29 VII 1997, 1 ♂; 15 VIII 1997, 3 ♀ ♀, 09 IX 1997, 1 ♂.

**Chorebus marsyas* (Nixon): Prosek, 09 IX 1997, 1 ♀.

**Chorebus melanophytobiae* Griffiths: Ostrovica, 18 V 1996, 1 ♀; 20 V 1996, 2 ♀ ♀; Prosek, 15 V 1997, 1 ♀; 19 V 1996, 1 ♀; 25 V 1997, 1 ♂; Sićevo, 13 IX 1997, 1 ♂, 8 ♀ ♀; Pasjača, 19 V 1996, 1 ♂, 3 ♀ ♀; 23 IX 1996, 1 ♂; Niš, 05 V 1996, 1 ♀; 14 X 1996, 1 ♀.

**Chorebus miodes* (Nixon): Prosek, 15 V 1997, 1 ♀.

**Chorebus mucronatus* (Telenga): Sićevo, 16 V 1996, 1 ♂.

**Chorebus myles* (Nixon): Ostrovica, 20 V 1996, 1 ♀; Kunovica, 04 X 1996, 1 ♂, Prosek, 15 V 1997, 1 ♀.

**Chorebus nydia* (Nixon): Sićevo, 10 IV 1996, 2 ♂ ♂.

**Chorebus ornatus* (Telenga): Prosek, 15 V 1997, 1 ♂; 15 VIII 1997, 1 ♂; 20 X 1996, 1 ♀; 15 V 1998, 1 ♀; Sićevo, 15 VIII 1997, 1 ♂; Ostrovica, 10 IV 1996, 2 ♂ ♂, 1 ♀; 29 VII 1997, 1 ♂; Niš, 01 VII 1996, 1 ♂; 14 X 1996, 1 ♀; Pasjača, 19 V 1996, 1 ♂, 1 ♀.

**Chorebus pratensis* (Tobias): Prosek, 15 VIII 1997, 1 ♀.

**Chorebus pulchellus* Griffiths: Prosek, 16 IX 1997, 1 ♂, 22 IX 1997, 1 ♀; Ostrovica, 22 IX 1997, 1 ♂.

**Chorebus scabiosae* Griffiths: Ostrovica, 29 IX 1997, 1 ♂.

Chorebus senilis (Nees von Esenbeck): Sićevo, 20 V 1996, 1 ♀.

**Chorebus separatus* (Telenga): Ostrovica, 10 X 1996, 1 ♀.

**Chorebus singularis* (Tobias): Prosek, 20 V 1997, 1 ♂.

**Chorebus stenocera* (Thomson): Prosek, 09 IX 1997, 1 ♀.

**Chorebus thusa* (Nixon): Ostrovica, 18 V 1996, 1 ♂, 1 ♀; 01 VII 1996, 1 ♀; Pasjača, 05 V 1996, 1 ♀; Niška Banja, 23 X 1996, 1 ♀.

**Chorebus trijapitzini* Tobias: Prosek, 22 VIII 1996, 1 ♂.

**Chorebus tumidus* Tobias: Ostrovica, 19 V 1996, 1 ♀; Niš, 14 X 1996, 1 ♂; Prosek, 12 V 1997, 1 ♂; 29 VII 1997, 1 ♂; 15 VIII 1998, 2 ♀ ♀.

**Chorebus xipidius* Griffiths: Ostrovica, 16 IX 1997, 1 ♀.

Chorebus sp. A: Ostrovica, 10 VI 1997, 1 ♀.

Chorebus sp. B: Sićevo, 15 VIII 1997, 1 ♀.

Chorebus sp. C: Prosek, 10 IV 1998, 1 ♀.

Chorebus sp. D: Prosek, 09 IX 1997, 1 ♀.

Coelinidea niger (Nees von Esenbeck): Ostrovica, 25 V 1997, 1 ♂; 16-22 IX 1997, 9 ♂ ♂, 3 ♀ ♀; Prosek, 15 V 1997, 1 ♂, 1 ♀; 17 VI 1997, 1 ♂, 6 ♀ ♀; 15 VIII 1997, 1 ♂, 1 ♀; Sićevo, 18 VII 1996, 3 ♂ ♂, 3 ♀ ♀; 25-28 VIII 1996, IX 1996, 1 ♀; 1 ♂, 2 ♀ ♀; 09 IX 1997, 1 ♂; 10 V 1998, 2 ♀ ♀; Pasjača, 20 X 1996, 1 ♀; 12 VII 1998, 3 ♀ ♀; Niš, 17 VII 1998, 1 ♂, 2 ♀ ♀.

**Coelinidea ruficollis* (Herrich-Schäffer): 23 XI 1996, 1 ♂.

Coelinidea vidua (Haliday): Prosek, 18 V 1998, 3 ♂ ♂.

Dacnusa adducta Haliday: Niš, 14 X 1996, 1 ♂.

Dacnusa discolor (Förster): Sićevo, 13 X 1997, 1 ♂.

**Dacnusa dryas* (Nixon): Sićevo, 24 XI 1997, 1 ♀; Prosek, 15 V 1997, 1 ♂; 15 VIII 1997, 1 ♂; 29 XI 1997, 1 ♂; Ostrovica, 29 XI 1997, 1 ♂; Pasjača 20 X 1996, 1 ♂; Niš, 14 X 1996, 1 ♀.

**Dacnusa faeroeensis* (Roman): Sićevo, 15 VIII 1995, 1 ♂; 15 VIII 1997, 1 ♂; Prosek, 15 V 1997, 1 ♀; 15 VIII 1997, 1 ♂, 1 ♀; 29 XI 1997, 1 ♂; Pasjača, 23 IX 1996, 1 ♂; 20 X 1996, 1 ♂; Niš, 14 X 1996, 1 ♀.

**Dacnusa genitanae* Griffiths: Sićevo, 25 V 1997, 1 ♀; 10 V 1998, 1 ♀; Sićevo, 24 IV 1996, 1 ♂; Ostrovica, 15 V 1997, 1 ♂; Pasjača, 23 IX 1996, 1 ♀.

**Dacnusa groschkeana* Griffiths: Sićevo, 15 V 1997, 1 ♀, Prosek, VIII 1997, 1 ♂.

**Dacnusa laevipectus* Thomson: Sićevo, 15 VIII 1997, 1 ♂; Ostrovica, 15 V 1997, 1 ♂, Pasjača, 28 IV 1996, 1 ♂.

**Dacnusa longiradialis* Nixon: Ostrovica, 29 XI 1997, 1 ♂.

**Dacnusa maculipes* Thomson: Prosek, 15 V 1997, 1 ♂, 1 ♀.

**Dacnusa mara* (Nixon): Ostrovica, 15 V 1997, 1 ♂.

**Dacnusa marica* (Nixon): Ostrovica, 15 V 1997, 5 ♂♂, 2 ♀♀; Prosek, 15 VIII 1997, 1 ♂; Sićevo, 24 XI 1997, 1 ♂; Niška Banja, 12 IV 1996, 1.

Dacnusa pubescens (Curtis): Sićevo, 20 IV 1996, 1 ♀, Pasjača, 28 IV 1996, 1 ♂.

Subfamily APHIDIINAE

***Aclitus obscuripennis* Förster: Sićevo, 25 VIII 1997, 1 ♀.

Aphidius absinthii Marshall: Ostrovica, 10 VI 1996, 1 ♀; 29 VII 1997, 1 ♀; 29 XI 1997, 1 ♀, Niš, 21 IV 1996, 1 ♀.

Aphidius eadyi Stary: Sićevo, 20 V 1996, 1 ♀; Sićevo, 13 IX 1997, 1 ♀.

Aphidius ervi Haliday: Sićevo, 10 VII 1996, 1 ♀; 20 VII 1997, 3 ♀♀ 13 VIII 1997, 1 ♂; 16 IX 1997, 1 ♂; 24 XI 1997, 1 ♀; Ostrovica, 21 IV 1996, 1 ♂, 15 V 1996, 2 ♀♀; 10 VI 1996, 2 ♂♂, 3 ♀♀; 15 VIII 1996, 1 ♀; 15 V 1997, 4 ♀♀; 29 VII 1997, 8 ♂♂, 17 ♀♀, 29 XI 1997, 4 ♀♀; Niš, 10 IV 1996, 1 ♂♂, 1 ♀; Prosek, 20 IV 1996, 4 ♂♂; 10 VI 1996, 3 ♀♀; 29 VII 1997, 3 ♀♀; 15 VIII 1997, 7 ♀♀; 29 XI 1997, 2 ♀♀; Niška Banja, 12 V 1997, 1 ♂.

Aphidius funebris Mackauer: Ostrovica, 29 VII 1997, 2 ♀♀; 27 IX 1997, 1 ♀.

Aphidius matricariae Haliday: Sićevo, 19 X 1996, 1 ♂; 13 VIII 1997, 1 ♂; 24 XI 1997, 1 ♂; Ostrovica, 15 V 1997, 1 ♂; 10 VI 1997, 2 ♂♂; 13 IX 1997, 1 ♂; 29 XI 1997, 1 ♂; Prosek, 15 VIII 1997, 1 ♂.

Aphidius microlochi Pennacchio et Tremblay: Ostrovica, 12 V 1998, 2 ♀♀.

Aphidius rosae Haliday: Ostrovica, 15 V 1997, 1 ♀.

Aphidius sonchi Marshall: Prosek, 29 VII 1997, 1 ♀; Ostrovica, 15 V 1997, 1 ♀; 29 VII 1997, 1 ♀.

Aphidius tanacetarius Mackauer: Sićevo, 15 IV 1998, 5 ♂♂, 8 ♀♀, Ostrovica, 10 VII 1996, 1 ♀.

Aphidius urticae Haliday: Prosek, 27 V 1996, 1 ♀; Ostrovica, 23 III 1997, 1 ♀; 25 V 1997, 1 ♀.

Aphidius uzbekistanicus Luzhetzki: Ostrovica, 29 VII 1997, 1 ♀.

Aphidius sp. A: Ostrovica, 12 IV 1996, 1 ♀; 19 X 1996, 1 ♀.

Aphidius sp. B: Ostrovica, 10 VI 1997, 1 ♂; Prosek, 27 III 1998, 2 ♂♂; 10 IV 1998, 2 ♂♂; 03 V 1998, 2 ♂♂.

Diaeretiella rapae (M'Intosh): Prosek, 19 IV 1998, 1 ♂; Pasjača, 12 VII 1998, 1 ♀.

Ephedrus cerasicola Stary: Sićevo, 22 IX 1997, 1 ♀, 29 IX 1997, 1 ♀.

Ephedrus persicae Froggatt: Prosek, 10 IV 1998, 1 ♀..

Ephedrus plagiator (Nees von Esenbeck): Sićevo, 18 VIII 1997, 1 ♀; Sićevo, 29 IX 1997, 1 ♀; Ostrovica, 28 IX 1997, 1 ♀; Niška Banja, 09 IX 1997, 1 ♀.

Lipolexis gracilis Förster: Ostrovica, 15 VIII 1997, 3 ♂♂, 1 ♀; Sićevo, 22 IX 1997, 6 ♀♀; Prosek, 18 VII 1998, 1 ♂; Donja Vrežina, 29 VIII 1996, 1 ♀; Pasjača, 19 IX 1997, 1 ♀.

Lysiphlebus cardui (Marshall): Ostrovica, 19 VII 1997, 2 ♂♂, 19 V 1996, 1 ♂.

Lysiphlebus fabarum (Marshall): Prosek, 28 VIII 1997, 2 ♂♂; 18 VIII 1998, 4 ♂♂; 03 X 1998, 36 ♀♀. Sićevo, 15 VIII 1997, 2 ♀♀; 09 IX 1997, 1 ♂, 1 ♀; 29 IX 1997, 1 ♀; Ostrovica, 15 VI 1996, 1 ♂; 19 V 1996, 1 ♂; 27 VII 1996, 2 ♂♂; 15 V 1997, 1 ♂; 27 VII 1997 2 ♂♂; 28 VIII 1997, 1 ♀; Pasjača, 13 IX 1997, 1 ♀; Niška Banja 10 VI 1996, 1 ♂.

Lysiphlebus fritzmuelleri Mackauer: Prosek, 10 IV 1998, 1 ♀; Ostrovica, 17 V 1998, 1 ♀.

*****Paralipsis enervis*** (Nees von Esenbeck): Sićevo, 21 IV 1996, 2 ♂♂.

Praon abjectum (Haliday): Prosek, 28 XI 1997, 1 ♀.

Praon barbatum Mackauer: Prosek, 20 IV 1996, 1 ♂; Sićevo, 29 VII 1997, 1 ♂.

Praon dorsale (Haliday): Sićevo, 29 VII 1997, 1 ♀.

Praon gallicum Stary: Sićevo, 22 XI 1997, 1 ♀.

Praon rosaecola Stary 10 ♂♂, 14 ♀♀. Prosek, 02 IV 1997, 8 ♂♂, 12 ♀♀ Ostrovica, 12 VI 1997, 1 ♂, 2 ♀♀; 15 V 1997, 1 ♂.

Praon volucre (Haliday): Prosek, 15 VIII 1996, 1 ♀; 150 IX 1997, 1 ♀; 28 IX 1997, 5 ♂♂, 1 ♀; Sićevo, 10 IV 1997, 1 ♀; 29 VII 1997, 3 ♂♂, 3 ♀♀; ♂; 15 VIII 1997, 1 ♀; 22 IX 1997, 1 ♀; 10 V 1998, 1 ♂; 29 VIII 1997, 1 ♀; Pasjača, 19 V 1996, 1 ♂; 12 VII 1998, 1 ♂; Niška Banja, 20 IX 1997, 1 ♂.

Praon yomenae Stary: Ostrovica, 29 VII 1997, 1 ♀; Sićevo, 22 IX 1997, 1 ♀.

Trioxus angelicae Haliday: Sićevo, 23 IX 1996, 1 ♀.

Trioxys betulae Marshall: Prosek, 02 VI 1997, 3 ♂♂, 9 ♀♀.

Trioxys complanatus Quilis: Niška Banja, 09 IX 1997, 1 ♂, 2 ♀♀; 20 IX 1997, 1 ♂. Sićevo, 15 V 1997, 1 ♀; 23 IX 1996, 1 ♀; Niš, 05 V 1996, 1 ♂; Pasjača, 13 IX 1997, 1 ♀; 22-29 IX 1997, 6 ♂♂, 1 ♀.

Subfamily BLACINAE

****Blacus armatulus*** Ruthe: Ostrovica, 11 III 1996, 1 ♀; Sićevo, 28 VIII 1997, 5 ♀♀.

Blacus capeki Haeselbarth: Sićevo, 29 IX 1997, 1 ♂.

****Blacus exilis*** (Nees): Ostrovica, 22 IX 1997, 1 ♀.

**Blacus hastatus* Haliday: Prosek, 15 IX 1997, 1 ♂.

Blacus maculipes Wesmael: Ostrovica, 10 VI 1996, 2 ♂; 29 VII 1996, 1 ♂; Prosek, 10 VI 1997, 1 ♀.

**Blacus pappianus* Haeselbarth: Ostrovica, 15 VIII 1997, 1 ♀.

Blacus tripudians Haliday: Ostrovica, 12 VII 1998, 1 ♂; 15 VIII 1997, 2 ♀ ♀; Pasjača, 12 VII 1998, 8 ♂ ♂, 2 ♀ ♀; Sićevo, 23 VII 1998, 2 ♂ ♂, 17 ♀ ♀.

Dyscoletes lancifer (Haliday): Ostrovica, 15 VIII 1997, 1 ♀.

Subfamily BRACONINAE

Bracon leptus Marshall: Sićevo, 29 IX 1997, 1 ♀.

Bracon nigriventris (Wesmael): Prosek, 09 IX 1997, 14 ♂ ♂, 6 ♀.

Subfamily CHELONINAE

**Ascogaster jaroslawensis* Kokoujev: Prosek, 09 IX 1996, 5 ♀ ♀; Ostrovica, 15-25 VIII 1997, 7 ♀ ♀.

Ascogaster quadridentata Wesmael: Sićevo, 25 VIII 1998, 1 ♂.

Ascogaster varipes Wesmael: Prosek, 09 IX 1996, 2 ♀ ♀.

**Chelonus caradrinae* Kokoujev: 1 ♂, 5 ♀ ♀. Prosek, 17 VII 1996, 1 ♀; 15 VIII 1996, 1 ♀; 15 VIII 1997, 1 ♂; 25 VIII 1997, 1 ♂, 1 ♀; 22 IX 1997, 1 ♀.

**Chelonus cisdauricus* Tobias: Prosek, 28 VIII 1997, 1 ♂.

**Chelonus dauricus* Telenga: Sićevo, 27 V 1996, 1 ♂.

Chelonus inanitus Linnaeus: Prosek, 10 VI 1996, 1 ♂.

Chelonus oculator Panzer Ostrovica, 29 VII 1997, 1 ♀.

Chelonus scabrator (Fabricius): Prosek, 08 V 1996, 1 ♀.

**Chelonus shirvanicus* Abdinbenkova: Ostrovica, 20 X 1996, 1 ♂.

**Microchelonus devius* (Tobias): Ostrovica, 28 VIII 1996, 2 ♀ ♀, 9 IX 1997, 1 ♀; Prosek, 16 IX 1997, 1 ♀.

Microchelonus exilis Marshall: Ostrovica, 08 IV 1998, 1 ♂.

**Microchelonus longiventris* (Tobias): Sićevo, 27 VIII 1997, 1 ♂, 1 ♀.

Microchelonus rimatus (Szépligeti): Prosek, 01 VII 1996, 1 ♀.

**Microchelonus scabrosus* Szépligeti: Ostrovica, 25 V 1997, 1 ♂; Prosek, 25 V 1997, 1 ♂; 18 V 1998, 1 ♂; Pasjača, 12 VII 1998, 1 ♀.

**Microchelonus scrobiculatus* Tobias: Ostrovica, 28 X 1996, 1 ♂; Prosek, 29 IX 1997, 1 ♂.

**Microchelonus tuberculiventris* Tobias: Prosek, 25 V 1997, 1 ♀.

**Phaneotoma gregori* Šnoflák: Pasjača, 23 VII 1998, 1 ♂.

Phanerotoma planifrons (Nees von Esenbeck): Pasjača, 23 VII 1998, 1 ♀.

**Phanerotomella graffi* Fisher: Pasjača, 17 VII 1998, 1 ♀.

Subfamily DORYCTINAE

**Dendrosoter flaviventris* Förster: Sićevo, 11 VII 1998, 1 ♀.

Heterospilus hemipterus (Thomson): Ostrovica, 29 IX 1997, 1 ♂.

**Heterospilus leptosoma* Fisher: Ostrovica, 28 VIII 1997, 1 ♀.

Heterospilus minimus Fisher: Prosek, 15 V 1996, 1 ♂.

Heterospilus rubicola Fisher: Prosek, 23 IX 1996, 1 ♂.

Heterospilus tauricus Telenga: Sićevo, 11 VII 1997, 1 ♀.

Heterospilus testaceus Telenga: Prosek, 17 VII 1998, 1 ♂.

***Rhaconotus aciculatus* Ruthe: Ostrovica, 29 IX 1997, 2 ♂♂, 1 ♀; Sićevo, 28 X 1996, 1 ♂.

**Rhysipolis meditator* (Haliday): Prosek, 10 IX 1996, 1 ♀; 23 IX 1996, 1 ♀, Ostrovica, 29 IX 1997, 1 ♀.

Spathius polonicus Niezabitowski: Ostrovica, 17 VI 1996.

Subfamily EUPHORINAE

Allurus muricatus Haliday: Prosek, 18 VII 1998, 1 ♀.

Dinocampus coccinellae (Schrank): Prosek, 13 IX 1997, 1 ♀.

Microctonus aethioides Loan: Sićevo, 19 V 1996, 1 ♂, 1 ♀; Ostrovica, 15 V 1997, 1 ♀; 29 VII 1997, 1 ♂; 15 IX 1997, 1 ♀; 22 IX 1997, 4 ♂♂.

Microctonus aethiops (Nees): Prosek, 17 VII 1998, 1 ♀.

Microctonus bicolor Wesmael: Ostrovica, 22 IX 1997, 1 ♀.

**Microctonus caudatus* (Thomson): Ostrovica, 15 V 1997, 1 ♂; Pasjača, 25 VIII 1997, 1 ♂.

**Microctonus moldavicus* Tobias: Ostrovica, 15 V 1997, 1G; Prosek, 17 VII 1998, 1G.

Microctonus secalis (Haliday): Sićevo, 9 V 1996, 1 ♀. *

**Perilitus rutilus* Nees von Esenbeck: Sićevo, 11 VII 1998, 7 ♀♀; Gornji Matejevac, 10. VII 1997, 2 ♀♀.

- **Peristenus facialis* (Thomson): Ostrovica, 18 V 1996, 1 ♂.
**Peristenus orthotyli* Richards: Ostrovica, 15 V 1997, 4 ♂ ♂.
Peristenus pallipes Curtis: Prosek, 20 V 1996, 1 ♂; Ostrovica, 29 IV 1997, 1 ♂; 15 V 1997 1 ♂, 1 ♀.
Peristenus picipes Curtis: Pasjača, 20 IX 1997, 1 ♂; 22 IX 1996, 1 ♂; Ostrovica, 15 V 1997, 2 ♂ ♂; 28 VIII 1997, 1 ♀; Sićevo, 11 IV 1998, 1 ♂.
**Peristenus relictus* (Ruthe): Ostrovica, 28 IX 1997, 1 ♂.
**Peristenus stygicus* Loan: Prosek, 15 VIII 1997, 1 ♂; Pasjača, 28 VIII 1997, 1 ♂.
Peristenus sp.: Ostrovica 15 V 1996, 1 ♂.
Syntretus conterminus (Nees von Esenbeck): Ostrovica, 29 7 1997, 1 ♂.

Subfamily HELCONINAE

- Diospilus capito* Nees von Esenbeck: Pasjača, 23 VII 1998, 1 ♀.
**Diospilus longicauda* Tobias: Sićevo, 15 VIII 1997, 1 ♀; 29 IX 1997, 3 ♀ ♀.
Diospilus morosus Reinhard: Sićevo, 29 IX 1997, 5 ♀ ♀.
Diospilus ovatus Marshall: Prosek. 15 VIII 1997, 1 ♀.
Eubazus gigas (Fahringer): Prosek, 15 V 1997, 1 ♀; Sićevo, 11 VII 1998, 2 ♀ ♀.
Eubazus tibialis (Haliday): Prosek, 20 V 1996, 1 ♀.
**Schizoprymnus ambiguus* (Nees von Esenbeck): Prosek, 10 IV 1998, 2 ♂ ♂.
**Schizoprymnus arcuatus* Tobias: Ostrovica, 18 VII 1996, 1 ♀.
**Schizoprymnus bidentulus* (Szépligeti): Ostrovica, 8 V 1998, 1 ♀.
**Schizoprymnus glaberrimus* Šnoflák: Sićevo, 5 V 1996, 1 ♂.
**Schizoprymnus opacus* (Thomson): Prosek, 18 V 1996, 3 ♀ ♀; Sićevo, 27 V 1996, 1 ♀; 15 VIII 1998 1 ♀; Prosek, 18 V 1998, 1 ♀.
**Schizoprymnus subangustatus* Tobias: Prosek, 18 V 1996, 2 ♀ ♀.
**Schizoprymnus tantalus* Papp: Prosek, 10 IV 1998, 1 ♀.
Schizoprymnus sp. A.: Sićevo, 10 V 1998, 1 ♂.
Schizoprymnus sp. B: Prosek, 18 V 1997, 1 ♀.
Triaspis caudatus (Nees von Esenbeck): Prosek, 10. IV 1998, 1 ♂, Ostrovica, 01 V 1998, 2 ♂ ♂, 2 ♀ ♀.
Triaspis obscurellus Nees: Kunovica, 14 X 1996, 2 ♀ ♀; 16 IX 1997, 1 ♀; Pasjača, 23 X 1996, 1 ♀; 22 IX 1997, 7 ♀ ♀; Gornji Matejevac, 28 IX 1997, 2 ♀ ♀; Niš, 28/29 IX 1997, 1 ♂, 3 ♀ ♀; Ostrovica, ♀ ♀; 01 VI 1997, 1 ♂; 29 XI 1997, 15 ♀ ♀; 24 XI 1997, 4 ♂ ♂, 11 Prosek, 10 IV 1998, 1 ♂; Sićevo, Sićevo, 19-20 X 1996,

2 ♀ ♀; 10 V 1998, 1 ♀; 18 V 1998, 1 ♂.

Triaspis sp.: Prosek, 18 V 1998, 1 ♂.

Subfamily HOMOLOBINAE

**Homolobus annulicornis* (Nees von Esenbeck): Pasjača 13 IX 1997, 2 ♀ ♀.

**Homolobus truncator* (Say): Ostrovica, 15 VIII 1997, 1 ♂; Sićevo, 22 IX 1997, 1 ♂; Niška Banja, 09 IX 1997, 1 ♂; Pasjača, 16 IX 1 ♂.

Subfamily MACROCENTRINAE

**Macrocentrus bicolor* Curtis: Pasjača, 12 VII 1998, 1 ♂.

Macrocentrus nitidus (Wesmael): Pasjača, 12 VII 1998, 1 ♂.

**Macrocentrus thoracicus* (Nees von Esenbeck): Prosek, 06 III 1997, 1 ♂; 20 V 1997, 1 ♀.

Subfamily METEORINAE

Meteorus pulchicornis (Wesmael): Ostrovica, 29 IX 1997, 1 ♂.

**Meteorus rubens* (Nees von Esenbeck): Sićevo, 9 X 1996, 1 ♂; 15-16 IX 1997, 1 ♂, 1 ♀; Prosek, 25 X 1996; Pasjača 25 VIII 1997, 1 ♀; 16-22 IX 1997, 2 ♀ ♀; Ostrovica, 20 IX 1997, 2 ♀ ♀; Niš, 03 X 1998, 1 ♀.

Subfamily MICROGASTRINAE

Apanteles spp.

**Microgaster campestris* Tobias: Sićevo, 19 IX 1997, 1 ♂.

**Microgaster curvicrus* Thomson: Prosek, 18 VII 1998, 1 ♀.

Microgaster deprimator (Fabricius): Pasjača, 16 IX 1997, 1 ♂, 1 ♀; Sićevo, 22 IX 1997, 1 ♀.

**Microgaster erro* Nixon: Prosek, 29 VIII 1997, 1 ♀, Pasjača 12 VII 1998, 3 ♀ ♀.

**Microgaster eupolis* Nixon: Pasjača, 13 IX 1997, 1 ♀.

**Microgaster fulvicrus* Thomson: Pasjača, 13 IX 1997, 1 ♀.

**Microplitis decens* Tobias: Prosek, 23 III 1996, 1 ♂; 20 V 1997, 1 ♀ 10 VI 1997, 1 ♂; 10-13 IX 1997, 3 ♂ ♂; 22 IX 1997, 1 ♀;; Sićevo, 25 V 1997, 1 ♂; 15 VIII 1997, 1 ♂; 22 IX 1997, 1 ♂; 29 IX 1997, 1 ♂; 10 V 1998, 1 ♂; Niš, 30 VII 1997, 1 ♀.

Microplitis mandibularis Thomson: Niška Banja, 21 VIII 1997, 1 ♂; Ostrovica, 15

VIII 1997, 2 ♀ ♀; 29 VIII 1997, 1 ♀; Pasjača, 16 IX 1997, 1 ♀; Prosek, 15 VIII 1998, 1 ♂.

**Microplitis ratzeburgi* (Ruthe): Prosek, 15 VIII 1997, 1 ♂.

Microplitis spinolae (Nees von Esenbeck): Prosek, 15 V 1997, 1 ♂; 28 VIII 1997, 1 ♀; Pasjača, 16 IX 1997, 1 ♂, Ostrovica, 22 IX 1997, 1 ♂, Sićevo, 18 VIII 1997, 1 ♀; 22 IX 1997, 2 ♀ ♀; 29 IX 1997, 1 ♂; 10 V 1998, 1 ♀.

**Microplitis stigmatica* Ratzeburg: Prosek, 28 VIII 1998, 2 ♂ ♂; Niš, 17 VII 1996, 1 ♂; Ostrovica, 15 VIII 1997, 2 ♂ ♂; 29 VIII 1997, 2 ♂ ♂, 2 ♀ ♀; Sićevo, 25 VIII 1997, 1 ♂; 22 IX 1997, 1 ♂; 29 IX 1997, 4 ♂ ♂; Pasjača, 16 IX 1997, 5 ♂ ♂; 12 VII 1998, 1 ♂.

Microplitis strenua Reinhard: Niška Banja, 25 VIII 1997, 1 ♂; Pasjača, 16 IX 1997, 1 ♀; 12 VII 1998, 1 ♀.

Microplitis trochanterata Thomson: Sićevo, 27 VII 1997, 1 ♂; 15 VIII 1997, 1 ♂; 22 IX 1997, 2 ♂ ♂; Pasjača, 23 IX 1996, 1 ♂; Prosek, 15 VIII 1997, 1 ♂.

**Microplitis tuberculifera* (Wesmael): 2EE; Prosek, 29 V 1997, 1G; 10 VI 1997, 1G; 16 VIII 1997, 2EE; 09 IX 1997 11E; 16 IX 1997, 3EE; 29 IX 1997, 2EE; 10 IV 1998, 1E; Sićevo, 22 IX 1997, 2EE; 29 IX 1997, 1G; 10 V 1998, 1G; Pasjača, 12 VII 1998, Ostrovica, 28 VIII 1997, 1E.

Microplitis sp.: Niš, 17 VII 1996, 1 ♀.

Subfamily NEONEURINAE

Neoneurus viennensis (Giraud): Sićevo, 15-25 V 1997, 2 ♂ ♂.

Subfamily OPIINAE

Diachasma sp.: Prosek, IX 1987, 1 ♂.

Opius spp.

Subfamily ORGILINAE

**Orgilus pimpinellae* Niezabitowski: Sićevo, 28 IX 1997, 1 ♀.

Subfamily ROGADINAE

Aleiodes bicolor (Spinola): Prosek, 10 VI 1996, 1G; 27 VII 1997, 1E; 15 VIII 1997, 1E; 28 VIII 1997, 1G; 17, 18 VII 1998, 1G, 1E; Ostrovica, 15 IX 1997, 1E; 22 IX 1997 4EE; 29 XI 1997, 1E; Sićevo, 01 VI 1996, 1E; 16 IX 1997, 2EE; 28 VIII 1997, 1E.

- **Aleiodes borealis* Thomson: Kunovica, 04 X 1996; 1 ♀; Niš, 05 V 1996 1 ♀.
Aleiodes caucasius Tobias: Prosek, 28 VIII 1997, 1 ♀; Ostrovica, 22 IX 1997, 1 ♀.
Aleiodes gasterator (Jurine): Prosek, 10 VI 1996, 1 ♂.
Aleiodes geniculator Nees von Esenbeck: Pasjača, 12 VII 1998, 1 ♀.
Aleiodes pallidator (Thunberg): Sićevo, 11 VII 1998.
 **Aleiodes schirjaewi* (Kokoujev): Prosek, 10 IX 1996, 2 ♀ ♀; 25 VIII 1997, 2 ♀ ♀; 17 VII 1998, 1 ♀.

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ПРЕЛИМИНАРНИ РЕЗУЛТАТИ ИСТРАЖИВАЊА БРАКОНИДА (HYMENOPTERA: BRACONIDAE) СИЋЕВАЧКЕ КЛИСУРЕ

В. Жикић, М. Браjkовић и Ж. Томанивић

И з в о д

И поред великог економског значаја, паразитске осе из фамилије Braconidae су врло слабо истражене на територији Србије. За ово истраживање обрађен је материјал прикупљен у периоду од 1995-1999. на подручју Сићевачке клисуре и шире околине. Регистроване су 234 врсте из 65 родова из 18 подфамилија. Заступљене су врсте и екто и ендопаразита. Од укупног броја регистрованих врста, чак 112 врста је први пут регистровано за фауну Србије.

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