

New Records of Hymenopterans for Georgia from Mtirala National Park

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ABSTRACT

Three malaise traps were set in different altitude of Mtirala National Park, Georgia. Six genera: *Ectemnius* Dahlbom, 1845, *Trichrysis* Lichtenstein, 1876, *Astichus* Forster, 1856, *Halticoptera* Spinola, *Gastrancistrus* Westwood, 1833, *Cleonymus* Latrielle, 1809 and ten species: *Ectemnius cavifrons* (Thomson, 1870), *Ectemnius lapidaries* (Panzer, 1803) *Trichrysis cyaneus* (Linnaeus, 1758) *Astichus arithmeticus* Forster, 1851 *Halticoptera patellana* (Dalman, 1818) *Gastrancistrus* sp., *Cleonymus* sp., *Copidosoma thebe* (Walker, 1838), *Cerchysiella centennialis* (Erdos, 1955), *Anagyrus securicornis* Domenichini, 1953 were recorded for the first time from Georgia.

Key words: Encyrtidae, Pteromalidae, Crabronidae, Chrysididae, malaise trap.

INTRODUCTION

The Hymenoptera is one of the biggest order in the class of Insecta. Hymenoptera is very important group as pollinators, pests and natural enemies, therefore to study them is extremely important. For Caucasus only few families complete check list had been done, such as Apoidea by Skhirtladze (1981), Aphelinidae by Nikolskaya and Yasnosh (1966) and Yasnosh (2000), Encyrtidae by Trjapitzin (1968), and Japoshvili and Noyes (2005), but for Georgia only family Encyrtidae by Japoshvili (2000) and family Formicoidea by Gratiashvili and Barjadze, (2008) were completed. There are also some fragmentary works on other families such as Braconidae by Enukidze (1968), Supatashvili and Enukidze (1970) and Akhvlediani (1981). Other groups can be discussed as not studied. Present study aimed to reveal fauna of Hymenoptera in Mtirala National Park.

MATERIAL AND METHODS

Material was collected June-August in 2014 with malaise traps, located in 3 different altitudes (311, 475 and 991 m above sea level). The traps were checked every 10 days and materials were preserved in 96% alcohol. Later material was dried using Hexamethyldisilazane, according Noyes (2014) methodology and pinned or card mounted and labeled. Material was identified by taxon experts. Encyrtidae species

were determined by author. All voucher specimens are in the collection of Institute of Entomology, Agricultural University of Georgia.

RESULTS

New genus record is defined with bold.

Family: Crabronidae

Genus *Ectemnius* Dahlbom, 1845

Ectemnius cavifrons (Thomson, 1870)

Material examined: Georgia, Mtirala national park, Malaise trap, 41°40'18.35"N, 41°52'26.72"E, 11-21.VII.2014, G. Japoshvili, 1♂.

Ectemnius lapidaries (Panzer, 1803)

Material examined: Georgia, Mtirala national park, Malaise trap, 41°40'18.35"N, 41°52'26.72"E, 1-10.VIII.2014, G. Japoshvili, 1♀.

Family: Chrysididae

Genus *Trichrysis* Lichtenstein, 1876

Trichrysis cyaneus (Linnaeus, 1758)

Material examined: Georgia, Mtirala national park, Malaise trap, 41°40'23.98"N, 41°52'15.93"E 1-10.VIII.2014, G. Japoshvili, 2♀♀.

Family: Eulophidae

Genus *Astichus* Forster, 1856

Astichus arithmeticus Forster, 1851

Material examined: Georgia, Mtirala national park, Malaise trap, 41°39'39.50"N, 41°52'33.68"E, 31.VI.-10.VII.2014, G. Japoshvili, 1♀; Georgia, Mtirala national park, Malaise trap, 41°39'39.50"N, 41°52'33.68"E, 11-21.VII.2014, G. Japoshvili, 1♀.

Family: Pteromalidae

Genus *Halticoptera* Spinola, 1811

Halticoptera patellana (Dalman, 1818)

Material examined: Georgia, Mtirala national park, Malaise trap, 41°40'23.98"N, 41°52'15.93"E 11-21.VII.2014, G. Japoshvili, 3♀♀; Georgia, Mtirala national park, Malaise trap, 41°40'18.35"N, 41°52'26.72"E, 21-31.VII.2014, G. Japoshvili, 1♀.

Genus *Gastrancistrus* Westwood, 1833

Gastrancistrus sp.

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Material examined: Georgia, Mtirala national park, Malaise trap, 41°40'18.35"N, 41°52'26.72"E, 21-31.VII.2014, G. Japoshvili, 1♀.

Genus *Cleonymus* Latrille, 1809

Cleonymus sp.

Material examined: Georgia, Mtirala national park, Malaise trap, 41°39'39.50"N, 41°52'33.68"E, 1-10.VIII.2014, G. Japoshvili, 1♀.

Family: Encyrtidae

Genus *Copidosoma* Ratzeburg, 1844

Copidosoma thebe (Walker, 1838) (Encyrtidae)

Material examined: Georgia, Mtirala national park, Malaise trap, 41°39'39.50"N, 41°52'33.68"E, 21-31.V.2014, G. Japoshvili, 3♀♀.

Genus *Cerchysiella* Girault, 1914

Cerchysiella centennalis (Erdos, 1955)

Material examined: Georgia, Mtirala national park, Malaise trap, 41°40'23.98"N, 41°52'15.93"E 31.VI-10.VII.2014, G. Japoshvili, 1♀.

Genus *Anagyrus* Howard, 1896

Anagyrus securicornis Domenichini, 1953

Material examined: Georgia, Mtirala national park, Malaise trap, 41°39'39.50"N, 41°52'33.68"E, 1-10.VIII.2014, G. Japoshvili, 3♀♀.

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