

# New Coleoptera (Insecta) Species from Republic of Macedonia

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**Abstract:** Representatives of Carabidae, Agyrtidae, Leiodidae, Staphylinidae, Anobiidae, Silvanidae, Cucujidae, Biphyllidae, Melandridae, Colydiidae, and Tenebrionidae collected in FYRepublic of Macedonia are listed. Seventeen species, eight genera (*Agyrtes*, *Enoptostomus*, *Hadrobregmus*, *Uleiota*, *Pediacus*, *Biphyllus*, *Pycnomerus*, and *Corticeus*), one subfamily (Zopherinae), and three families (Agyrtidae, Cucujidae, and Biphyllidae) are reported for first time from Republic of Macedonia. *Pediacus dermestoides* is also cited for the first time from Balkan Peninsula.

**Key words:** Coleoptera, new records, FYRepublic of Macedonia

## Introduction

Being the most megadiverse organism group on the Earth, the order Coleoptera comprises almost a quarter of all existing life-forms (MADDISON 2000, LIEBHERR & MCHUGH 2003). On the other side, Balkan Peninsula, due to both geographic and historical reasons, is supposedly considered a biodiversity hotspot with high share of endemic species (GASTON & DAVID 1994, MARTÍNEZ-RICA 1998). But, from faunal and systematic viewpoint the beetles have been both inadequately and unevenly studied in the different countries of the peninsula. In particular, insufficient knowledge about the regional distribution in the very centre of the Balkans (e.g. in Republic of Macedonia) deserves consideration.

The report announces taxa of Coleoptera new to the fauna of FYRepublic of Macedonia.

## Material and Methods

The identification has been made as follows: Carabidae, genus *Lebia* (S. Hristovski), Staphylinidae (R. Bekchiev), other families and carabid genus *Apristus* (B. Guéorguiev).

The examined material is distributed among the following collections: CSH collection Slavcho Hristovski, Skopje, FYRepublic of Macedonia; MIZ Museum and Institute of Zoology, Polish Academy of Sciences, Warszawa, Poland; MNHUB Museum für Naturkunde der Humboldt Universität zu Berlin, Bereich Zoologisches Museum, Berlin, Germany; NMNHS National Museum of Natural History, Bulgarian Academy of Sciences, Sofia, Bulgaria.

All the species below represent first findings for the fauna of FYRepublic of Macedonia; below only the new taxa at the supra-species level are asterisked.

Other abbreviations: \* – taxa new to the fauna of FYRepublic of Macedonia; f. – female(s); m. – male(s); s. – specimen(s); Mt. – mountain/s.

### Carabidae LATREILLE, 1802

#### *Apristus subaeneus* CHAUDOIR, 1846

**Material studied.** Katlanovska Banja, 12.VIII.1966, leg. B. Burakowski, 1 s. (MIZ); Belasitsa Mt., above Smolari Village, 420-480 m, 9.IV.2010, 1 s., leg. E. Chehlarov (NMNHS).

**Notes.** We have studied one specimen labelled: 'Jugoslawien Macedonien leg. F. Hieke' / 'Umgb. Skopje Treska-Ufer b. Saraj 3.6.1980' (MNHUB). Originally this sample was identified as *A. subaeneus* (HIEKE 1981) but we found out it concerns *A. reticulatus* SCHAUM, 1857. Therefore, new data above represent first species mention for the country.

*Lebia (Lamprias) chlorocephala* (J. J. HOFFMANN, 1803)

**Material studied.** Dojran Lake near Star Dojran, 150 m, 28.10.2006, 1 m., ruderal habitat, leg. S. Hristovski (CSH).

#### \*Agyrtidae C.G. THOMSON, 1859

##### \**Agyrtes (Agyrtes) castaneus* FABRICIUS, 1792

**Material studied.** Centre of Skopje, 252 m, soil traps, III-IV.2005, 2 f. / V-VI.2005, 1 m., leg. D. Prelik & A. Gorgievska (NMNHS).

### Leiodidae FLEMING, 1821

#### *Catops neglectus* KRAATZ, 1852

**Material studied.** Belasitsa Mt., above Smolari Village, 420-480 m, 9.V.-12.VI.2010, 1 m., soil traps along Smolarska reka River, leg. B. Guéorguiev (NMNHS).

#### *Agathidium (Neoceble) aglyptoides* REITTER, 1885

**Material studied.** Centre of Skopje, 252 m, soil traps, XI-XII.2004, 1 f., D. Prelik, A. C. Gorgievska (NMNHS).

#### *Agathidium (Neoceble) temporale* SAHLBERG, 1908

**Material studied.** Belasitsa Mt., above Smolari Village, 420-480 m, 9.IV.2010, 1 m., 1 f., under bark, leg. E. Chehlarov (NMNHS).

**Notes.** The finding at Smolari represents the northernmost locality of *A. temporale* till now (see ANGELINI 1995).

### Staphylinidae LATREILLE, 1802

#### *Plectophloeus nitidus* (FAIRMAIRE, 1858)

**Material studied.** Belasitsa Mt., Smolarska reka River, above Smolari Village, 420-480 m, 12.VI.2010, 3 s., in leaf litter, leg. R. Bekchiev (NMNHS).

#### *Trimium caucasicum* KOLENATI, 1846

**Material studied.** Belasitsa Mt., Smolarska reka River, above Smolari Village, 420-480 m, 12.VI.2010, 4 s., in leaf litter, leg. R. Bekchiev (NMNHS).

#### \**Enoptostomus globulicornis* MOTSCHULSKY, 1851

**Material studied:** Debar env., N41 30.918 E20 32.975, 728 m, under stones, 06.05.2010, 4 ex., leg. A. Gjonova (NMNHS).

### Anobiidae FLEMING, 1821

#### \**Hadrobregmus denticollis* (CREUTZER in PANZER, 1796)

**Material studied.** Belasitsa Mt., Smolarska reka River, above Smolari Village, 420-480 m, 9.IV.2010, 2 s., under bark, leg. B. Guéorguiev (NMNHS).

**Notes:** So far *H. denticollis* was known only from Bulgaria on Balkan Peninsula (ZAHRADNÍK 2007).

### Silvanidae KIRBY, 1837

#### \**Uleiota planata* (LINNAEUS, 1761)

**Material studied.** Belasitsa Mt., Smolarska reka River, above Smolari Village, 420-480 m, 15.IX.2009, 1 s. / 9.IV.2010, 1 s., under bark of *Platanus orientalis*, leg. E. Chehlarov & B. Guéorguiev (NMNHS).

### \*Cucujidae LATREILLE, 1802

#### \**Pediacus dermestoides* (FABRICIUS, 1792)

**Material studied.** Belasitsa Mt., Smolarska Reka River, above Smolari Village, 420-480 m, 9.IV.2010, 1 s., under bark of *Platanus orinetalis*, leg. E. Chehlarov (NMNHS).

**Notes:** So far, *P. dermestoides* was not recorded from Balkan Peninsula (SLIPINSKI 2004, WĘGRZYNOWICZ 2007). The species is also found for first time in Balkan Peninsula.

### \*Biphyllidae LECONTE, 1861

#### \**Biphyllus lunatus* (FABRICIUS, 1787)

**Material studied.** Belasitsa Mt., Smolarska Reka River, above Smolari Village, 420-480 m, 9.IV.2010, 1 s., under bark of *Platanus orientalis*, leg. E. Chehlarov & B. Guéorguiev (NMNHS).

**Melandryidae LEACH, 1815*****Hypulus quercinus* (QUENSEL, 1790)**

**Material studied.** Belasitsa Mt., above Smolari Village, 420-480 m, 9.IV.2010, 3 s., under bark, leg. B. Guéorguiev (NMNHS).

**Colydiidae ERICHSON, 1842****\**Pycnomerus sulcicollis* (GERMAR, 1824)**

**Material studied.** Belasitsa Mt., above Smolari Village, 420-480 m, 9.IV.2010, 1 s., under bark, leg. E. Chehlarov & B. Guéorguiev (NMNHS).

**Notes.** The above finding is also the first record of Zopherinae SOLIER, 1834 for the country.

**Tenebrionidae LATREILLE, 1802****\**Corticeus unicolor* (PILLER & MITTERPACHER, 1783)**

**Material studied.** Belasitsa Mt., above Smolari Village, 420-480 m, 9.IV.2010, 2 s., leg. E. Chehlarov & B. Guéorguiev (NMNHS).

***Omophlus lepturoides* (FABRICIUS, 1787)**

**Material studied.** Nidze Mt., way after Snezhnik, 13.VI.2002, 1 s., leg. V. Micevski (NMNHS).

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## Нови твърдокрили от Република Македония

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### (Резюме)

Съобщават се седемнадесет вида от Carabidae, Agyrtidae, Leiodidae, Staphylinidae, Anobiidae, Silvanidae, Cucujidae, Biphyllidae, Melandryidae, Colydiidae и Tenebrionidae нови за фауната на Република Македония. Нови за страната са също осем рода (*Agyrtes*, *Enoptostomus*, *Hadrobregmus*, *Uleiota*, *Pediacus*, *Biphyllus*, *Pycnomerus*, and *Corticeus*), едно подсемейство (Zopherinae) и три семейства (Agyrtidae, Cucujidae, and Biphyllidae). *Pediacus dermestoides* е установен за първи път от Балканския полуостров.