

## New distributional data on Elateroidea (Coleoptera: Elateridae, Eucnemidae and Omalisidae) for Albania, Montenegro and Macedonia

### Nové údaje o rozšíření Elateroidea (Coleoptera: Elateridae, Eucnemidae a Omalisidae) pro Albánii, Černou Horu a Makedonii

Tamás NÉMETH<sup>1,\*</sup>, Václav DUŠÁNEK<sup>2</sup>, Josef MERTLIK<sup>3</sup>  
& Robin KUNDRATA<sup>4</sup>

<sup>1</sup> Hungarian Natural History Museum, H-1088 Budapest, Baross utca 13, Hungary  
e-mail: [haesito@gmail.com](mailto:haesito@gmail.com),\* corresponding author

<sup>2</sup> Kahlíkova 19, CZ -78901 Zábřeh, Czech Republic  
e-mail: [dusanek@elateridae.com](mailto:dusanek@elateridae.com)

<sup>3</sup> Pohřebačka 34, Opatovice nad Labem, 533 45, Czech Republic  
e-mail: [mertlik@elateridae.com](mailto:mertlik@elateridae.com)

<sup>4</sup> Department of Zoology, Faculty of Science, Palacky University, 17. listopadu 50, 771 46  
Olomouc, Czech Republic  
e-mail: [robin.kundrata@upol.cz](mailto:robin.kundrata@upol.cz)

**Abstract.** First records for ten species of Elateroidea from Albania, Montenegro and Macedonia are given. Eight species belong to the family Elateridae: *Agriotes acuminatus* (Stephens, 1830), *Athous zebeianus* Platia, 2008, *Procraterus tibialis* (Lacordaire, 1835), *Dalopius marginatus* (Linnaeus, 1758), *Stenagostus rhombeus* (Olivier, 1790), *Hypoganus inunctus* (Lacordaire, 1835), *Zorochochroa meridionalis* (Laporte, 1840), *Paracardiophorus musculus* (Erichson, 1840), one to Eucnemidae: *Xylophilus testaceus* (Herbst, 1806), and one to Omalisidae: *Omalisus fontisbellaquaei* Geoffroy, 1785.

**Keywords:** Coleoptera, Elateroidea, Elateridae, Eucnemidae, Omalisidae, Montenegro, Albania, Macedonia, new records, distribution

The superfamily Elateroidea (Coleoptera: Polyphaga) contains ca. 24,000 described species classified into 15 families (Bocak et al. 2014, Kundrata et al. 2014). Although the greatest diversity of the group lies in the tropics, new elateroid species are still being discovered in Europe as well (e.g., Platia 2012, Zapata et al. 2013, Németh & Platia 2014). The Balkan Peninsula is part of the Mediterranean Basin, one of the most important world biodiversity hotspots (Myers et al. 2000), and still, new Elateroidea species, mostly the click-beetles, can be found there (e.g., Schimmel & Platia 2008, Platia & Németh 2011, Platia 2013). Recently, several authors published information on new records of elateroid beetles for the Balkan countries (Kovács & Merkl 2013; Kovács et al. 2011, 2012; Pedroni & Platia 2010; Platia 2011; Platia & Németh 2011).

Herein, we present the new faunistic records for Albania, Montenegro and Macedonia which resulted from the recent Czech and Hungarian collecting expeditions in the Balkan Peninsula. For the information on the distributions of examined elateroid species we used studies of Cate (2004, 2007), Mertlik & Platia (2008) and references cited above. Specimens are deposited in the collections of Václav Dušánek (Zábřeh), Josef Mertlik (Opatovice nad Labem), Robin Kundrata (Olomouc), Petr Brůha (Ústí nad Labem) and in the Coleoptera Collection of the Hungarian Natural History Museum (Budapest).

Abbreviations of the countries follow Cate (2007).

E = Europe, AB = Azerbaijan, AL = Albania, AU = Austria, BE = Belgium, BH = Bosnia and Herzegovina, BU = Bulgaria, BY = Belarus, CR = Croatia, CZ = Czech Republic, DE = Denmark, EN = Estonia, FI = Finland, FR = France, GB = Great Britain, GE = Germany, GG = Georgia, GR = Greece, HU = Hungary, IT = Italy, LA = Latvia, LS =

Liechtenstein, LT = Lithuania, LU = Luxemburg, MC = Macedonia, MD = Moldavia, NL = The Netherlands, NR = Norway, NT = Russia: North European Territory, PL = Poland, RO = Romania, RU = Russia, SK = Slovakia, SL = Slovenia, SP = Spain, SV = Sweden, SZ = Switzerland, UK = Ukraine, YU = Serbia and Montenegro.

A = Asia, ES = Russia: East Siberia, FE = Russia: Far East, HEI = China: Heilongjiang, IN = Iran, KZ = Kazakhstan, MG = Mongolia, TR = Turkey, WS = Russia: West Siberia.

N = North Africa, AG = Algeria, TU = Tunisia

## New records for Albania, Montenegro and Macedonia.

### ELATERIDAE

#### *Athous zebeianus* Platia, 2008

Distribution. **E:** GR MC

Material examined. ALBANIA Tropojë distr., Lumi i Bisticës gorge ca. 14 km N of Tropojë, 965m asl. (rocky forest) N42,4740, E20,1520, 26.VI.2014., leg. D. Angyal, Z. Fehér & J. Grego. **First record for Albania.**

#### *Agriotes acuminatus* (Stephens, 1830)

Distribution. **E:** AU BE BU CR CZ DE FR GB GE GR HU IT LS LT MC MD NL PL RO SK SL SP SZ UK **A:** TR

Material examined. ALBANIA, Bulqizë distr., 2 km NE Fushë Studë, Fagus forest, beaten, 41°18'4.08"N, 20°22'39.37"E, 4.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. MONTENEGRO, Bar distr., Mt. Vrsouta, Sutorman, mixed forest, swept and beaten, 42°9'18.32"N, 19°5'52.81"E, 1-2.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. **First records for Albania and Montenegro.**

#### *Dalopius marginatus* (Linnaeus, 1758)

Distribution. **E:** AL AU BU BY CR CZ DE EN FI FR GB GE GR HU IR IT LA LS LT NR PT RO RU SL SP SV SZ **A:** ES HEB GAN KZ MG NMO TR WS

Material examined. MONTENEGRO, Kotor distr., Mts. Lovćen, Ivanova Korita, Fagus forest, beaten, 42°22'44.81"N, 18°50'9.90"E, 31.V.2014., leg. V. Dušánek, R. Kunderata & T. Németh. MACEDONIA, Nizhepole reg., NP Pelister, 2.5 km S Nizhepole, mixed forest, swept, 40°59'3.65"N, 21°14'37.24"E, 6.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. **First records for Macedonia and Montenegro.**

#### *Hypoganus inunctus* (Lacordaire, 1835)

Distribution. **E:** AB AL AU BE BH BU CR CZ DE FR GE GG GR HU IT LS LU MD NL NR PL RO RU SK SL SRB SV SZ UK **A:** TR

Material examined. MACEDONIA, Pelagonia reg., 1.5 km SW Ehloec, Fagus forest, swept & beaten, 41°27'3.88"N, 20°44'30.19"E, 6.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. Pelagonia reg., Krushevo (41°22'37.27"N, 21°14'10.22"E), 25.V.2014., 1 ♀, Fagus forest, singled at night, J. Mertlik leg., det. et coll. MONTENEGRO, Kotor distr., Mts. Lovćen, Ivanova Korita, Fagus forest, singled at night, 42°22'44.81"N, 18°50'9.90"E, 31.V.2014., leg. V. Dušánek, R. Kunderata & T. Németh. Bar distr., Mt. Vrsouta, Sutorman, mixed forest, beaten, 42°9'18.32"N, 19°5'52.81"E, 1-2.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. **First records for Macedonia and Montenegro.**

#### *Paracardiophorus musculus* (Erichson, 1840)

Distribution. **E:** AU BU CT CZ FR GE GG GR HU IT LT PL RO SK SP ST SZ UK **N:** AG TU **A:** ES TR WS

Material examined. ALBANIA, Librazhd distr, 1 km N Gezavesh, riverbank, beaten and singled, 41°13'59.2"N, 20°17'32.6"E, 4-5.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. Librazhd distr., Allaj W 1 km, bridge of Lumi i Raponit, 280 m asl. [riverbed] N 41,2331, E 20,2924 2014.04.13 leg. Z. Fehér, E. Mizsei & T. Németh. Shkodër distr.,

Fushë Arrëzi (42°05'23.13"N, 20°05'06.62"E), 14.VI.2010, 17 ex., riverbank, P. Brúha & J. Mertlik leg., det. et coll. MONTENEGRO, Budva env., Bečići, 27.IV.1975, 3 ex., J. Strejček leg., J. Mertlik det. et coll.; dtto, 7.V.1975, 1 ex., J. Strejček leg., J. Mertlik det. et coll. **First records for Albania and Montenegro.**

***Procaerus tibialis* (Lacordaire, 1835)**

Distribution. **E:** AL AU BE BH BU CR CZ DE FI FR GB GE GR HU IT LV MD NR PL RO RU SK SL SP SV SZ UK YU **A:** IN TR **N:** AG

Material examined. MACEDONIA, Pelagonia reg., Krusevo, *Fagus* forest, from hollow *Fagus*, 41°22'38.01"N, 21°14'0.25"E, 5.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. Berovo reg., Suvi Laki env., Prevedena (41°33'49.51"N, 22°50'33.72"E), 4.VI.2014, 1 ♂, *Fagus* forest, singled at night, J. Mertlik leg., det. et coll. **First records for Macedonia.**

***Stenagostus rhombeus* (Olivier, 1790)**

Distribution. **E:** AL AU BE BH BU BY CR CZ DE FR GB GE GR HU IT LS MD NL PL PT RO RU SK SL SP SV SZ UK **A:** TR

Material examined. MONTENEGRO, Bar distr., Mt. Vrsouta, Sutorman, mixed forest, *ex larva* from rotten *Quercus*, 42°9'18.32"N, 19°5'52.81"E, 1–2.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. MONTENEGRO, Kotor distr., Mts. Lovćen, Ivanova Korita, *Fagus* forest, (larva) 42°22'44.81"N, 18°50'9.90"E, 31.V.2014., leg. V. Dušánek, R. Kunderata & T. Németh. **First records for Montenegro.**

***Zorochros meridionalis* (Laporte de Castelnau, 1840)**

Distribution. **E:** AB AU BH BU CR CZ FR GE GG GR HU IT MC NL PL RO SK SL SP ST SZ **A:** TR

Material examined. ALBANIA, Librazhd distr, 1 km N Gezavesh, riverbank, beaten and singled, 41°13'59.2"N, 20°17'32.6"E, 4–5.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. ALBANIA, Librazhd distr., Allaj W 1 km, bridge of Lumi i Raponit, 280 m asl. [riverbed] N 41,2331, E 20,2924 2014.04.13 leg. Z. Fehér, E. Mizsei & T. Németh. Shkodër distr., Fushë Arrëzi (42°05'23.13"N, 20°05'06.62"E), 14.VI.2010, 1 ex., riverbank, J. Mertlik leg., det. et coll. MONTENEGRO, Boan env., Komarnica river, 30.VI.2009, 4 ♂♂, J. Mertlik leg., det. et coll. Vlaina planina, river, 2.24 km SW of Crnik, 6.VII.2009, 2 ♂♂, J. Mertlik leg., det. et coll. **First records for Albania and Montenegro.**

EUCNEMIDAE

***Xylophilus testaceus* (Herbst, 1806)**

Distribution. **E:** CR CZ FR HU IT PL RO SK SZ YU

Material examined. MACEDONIA, Pelagonia reg., 1.5 km SW Ehloec, *Fagus* forest, *ex larva* from rotten *Alnus*, 41°27'3.88"N, 20°44'30.19"E, 6.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. **First record for Macedonia.**

OMALISIDAE

***Omalisus fontisbellaquaei* Geoffroy, 1785**

Distribution. **E:** AU BE BH BY CR CZ BU FR GE HU IT LS NL PL RO SL SK SP SZ UK **A:** TR

Material examined. ALBANIA, Tiranë distr., 1 km NE Qafmolle, machia, singled, 41°22'6.59"N, 19°58'19.16"E, 4.VI.2014., leg. V. Dušánek, R. Kunderata & T. Németh. **First record for Albania.**

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**Supplementary figures** (photos by Tamás Németh)

Fig. 1: Habitat of *Stenagostus rhombeus* (Olivier, 1790), *Hypoganus inunctus* (Lacordaire, 1835) and *Agriotes acuminatus* (Stephens, 1830) at Vrsouta, Montenegro



Fig. 2: Road construction in the habitat of *Zoroichros meridionalis* (Laporte de Castelnau, 1840) and *Paracardiophorus musculus* (Erichson, 1840) by the river Raponit, near Librazhd, Albania



Fig. 3: *Stenagostus rhombeus* (Olivier, 1790)



Fig. 4: *Paracardiophorus musculus* (Erichson, 1840)



Fig. 5: *Athous zebeianus* Platia, 2008; female



Fig. 6: *Athous zebeianus* Platia, 2008; male