

**New distributional data on Elateroidea from Albania, Bulgaria, Croatia,
Greece, Macedonia, Montenegro and Serbia
(Coleoptera: Elateridae, Eucnemidae)**

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Abstract – First records and notes for 21 species of Elateroidea from Albania, Bulgaria, Croatia, Montenegro, Macedonia and Serbia are given. Fifteen species belong to Elateridae: *Agriotes infuscatus* Desbrocher des Loges, 1870, *Ampedus nigrinus* (Herbst, 1784), *Ampedus scrofa* Germar, 1844, *Athous vittatoides* Reitter, 1905, *Brachygonus dubius* (Platia et Cate, 1999), *Cardiophorus asellus* Erichson, 1840, *Cardiophorus nigerrimus* Erichson, 1840, *Cidnopus ruzenae* (Laibner, 1977), *Diacanthous undulatus* (DeGeer 1774), *Ischnodes sanguinicollis* (Panzer, 1793), *Lacon querceus* (Herbst, 1784), *Negastrius pulchellus* (Linnaeus, 1758), *Paraphotistus nigricornis* (Panzer, 1799), *Selatosomus pasticus* (Ménétries, 1832), *Quasimus minutissimus* (Germar, 1822) and six species to Eucnemidae: *Eucnemis capucina* Ahrens, 1812, *Farsus dubius* (Piller et Mitterpacher, 1783), *Isorhipis melasoides* (Laporte, 1835), *Microrhagus emyi* (Rouget, 1856), *Otho sphondyloides* (Germar, 1818) and *Rhacopus sahlbergi* (Mannerheim, 1823). With 6 figures.

Key words – Balkan Peninsula, biodiversity, Coleoptera, distribution, faunistics, new records

INTRODUCTION

Recently, the fauna of Elateridae and Eucnemidae of Southeast Europe has been intensively studied, including descriptions of new species, and reports of the new country records (e.g., KOVÁCS *et al.* 2014, MERTLIK *et al.* 2015, 2017, NÉMETH *et al.* 2014, PLATIA 2011, 2016, 2017). During the identification of material from recent collecting trips of the authors as well as the material from different collections, we found several new distributional records for Elateridae and Eucnemidae. Herein we present faunistic records of 21 elateroid beetle species for Albania, Bulgaria, Croatia, Greece, Macedonia, Montenegro and Serbia. For

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the information on the distribution of examined species we used the publications of CATE (2007), HORION (1953) and the references cited above. CATE (2007) used “Yugoslavia” without distinction of Serbia and Montenegro in accordance with the editorial rules of the Catalogue of Palaearctic Coleoptera. In such cases we provide exact locality data for the examined species.

Abbreviations – Abbreviations of the countries follow CATE (2007), abbreviations for Serbia and Montenegro are added in the list below.

E = Europe, AB = Azerbaijan, AL = Albania, AN = Andorra, AR = Armenia, AU = Austria, BE = Belgium, BH = Bosnia and Herzegovina, BU = Bulgaria, BY = Belarus, CR = Croatia, CT = Russia: Central European Territory, CZ = Czech Republic, DE = Denmark, EN = Estonia, FI = Finland, FR = France, GB = Great Britain, GE = Germany, GG = Georgia, GR = Greece, HU = Hungary, IR = Ireland, IT = Italy, LA = Latvia, LS = Liechtenstein, LT = Lithuania, LU = Luxembourg, JA = Japan, MC = Macedonia, MD = Moldavia, MN = Montenegro, NL = The Netherlands, NR = Norway, NT = Russia: North European Territory, PL = Poland, PT = Portugal, RO = Romania, RU = Russia, SE = Serbia, SK = Slovakia, SL = Slovenia, SP = Spain, ST = Russia: South European Territory, SV = Sweden, SZ = Switzerland, TR = Turkey UK = Ukraine, YU = Serbia and Montenegro.

A = Asia, ES = Russia: East Siberia, FE = Russia: Far East, HEI = Heilongjiang, China, IN = Iran, IS = Israel, JIL = Jilin, China, KZ = Kazakhstan, MG = Mongolia, NIN = Ningxia, China, NMO = Nei Mongol, China, SY = Syria, TR = Turkey, WS = Russia: West Siberia, XIN = Xinjiang, China.

N = North Africa, AG = Algeria.

NAR = Nearctic Region.

The material examined in this study is deposited in the following institutions and personal collections: HNHM = Hungarian Natural History Museum, Budapest, Hungary; PCBL = private collection of Boris Lauš, Zagreb, Croatia; PCJM = private collection of Josef Mertlik, Opatovice nad Labem, Czech Republic; PCGP = private collection of Giuseppe Platia, Gatteo, Italy; PCBT = private collection of Béla Tallósi, Szolnok, Hungary.

ELATERIDAE

Agriotes infuscatus Desbrochers des Loges, 1870

(Fig. 1)

Material examined – MONTENEGRO, Opština Cetinje (Cetinje municipality), Bajice, N 42.4053°, E 18.8916°, 840 m a.s.l., hay meadow with shrubs, beaten, 18.V. 2017, leg. D. Horváth, M. Lukátsi, O. Merkl, T. Németh, B. Szelenczey & V. Szénási (3, HNHM).

Distribution – E: AB AR CR FR GG IT ST A: IN TR (CATE 2007). E: BH (PLATIA & NÉMETH 2011) GR (PLATIA 2011). **First record for Montenegro.**

Ampedus nigrinus (Herbst, 1784)

Material examined – MONTENEGRO, Durmitor, Sušičko jezero, 22.VI.1988, leg. G. Mészáros (1, PCBT).

Distribution – E: AU BE BU BY CR CT CZ DE EN FI FR GB GE GG LA NL NR NT PL RO SL ST SP SV UK (CATE 2007) AL (PEDRONI & PLATIA 2010) HU (MERKL *et al.* 2012) GR (NÉMETH & PLATIA 2014). A: FE JIL KZ LIA MG TR WS (CATE 2007). **First record for Montenegro.**

Ampedus scrofa Germar, 1844

Material examined – MONTENEGRO, Durmitor, Vipel, 21.VI.1998, leg. G. Mészáros; Durmitor, Borje, 7.IX.1982, leg. B. Tallósi (1, PCBT).

Distribution – E: AL AU BH BU CR CZ FR GE IT LS PL RO SK SL SP SZ UK YU A: TR (As *A. aethiops* (Lacordaire, 1835) in Cate 2007). **First record for Montenegro.**

Notes – “YU” in CATE (2007) probably refers to the records of HORION (1953): SE (Fruška gora) and BH (Bjelašnica).

Athous (Athous) vittatoides Reitter, 1905

(Fig. 2)

Material examined – MONTENEGRO, Opština Ulcinj (Ulcinj municipality), Arbnež, N 42.0748°, E 19.3462°, 320 m a.s.l., *Castanea sativa* grove, hand-collected, 22.V.2017, leg. D. Horváth, M. Lukátsi, O. Merkl, T. Németh, B. Szelenczey & V. Szénási (5 specimens); Petrovac env., Poljice Pass, 21.VI.2003, leg. J. Mertlik (9, PCGP); Virpazar, Bukovik env., 20.VI.2003, leg. J. Mertlik (1, PCGP); Riječani (42°20'N, 19°02'E) 4.VI.1991, leg. H. Mendel (1, PCGP).

Distribution – E: AL GR (CATE 2007). **First record for Montenegro.**

Brachygonus dubius (Platia et Cate, 1990)

(Fig. 3)

Material examined – ALBANIA, Qarku i Tiranës (Tiranë county), between Shkallë and Shengjin i Math, Lumi Erzen (Erzen river), N 41.3226°, E 19.9955°, 420 m a.s.l., riverside, reared from hollow *Platanus* 20.V–2.VIII.2017, leg. T. Németh (1, HNHM).

Distribution – E: AU CZ FR GE GR HU IT SK SL SV UK (CATE 2007) PL (PLATIA 2015) RO (PLATIA 2016) SP (RECALDE & SANCHEZ-RUIZ 2006) A:

TR (CATE 2007) IS (PLATIA 2010) SY (PLATIA & NÉMETH 2011). **First record for Albania.**

Cardiophorus asellus Erichson, 1840

Material examined – SERBIA, Severnobački okrug, Opština Subotica, Radanovac, swept, 29.III.2017, leg. T. Németh & V. Szénási (1, HNHM).

Distribution – E: AU BE BU BY CT CZ DE EN FI FR GB GE GR HU LA LU MC NL NT PL RO SK SP ST SV UK (CATE 2007) LT (TAMUTIS 2003). **First record for Serbia.**

Cardiophorus nigerrimus Erichson, 1840

Material examined – ALBANIA, Vlora, Llogara pass, 40°11.89' N, 19°35.515' E, 1020 m, 14.V.2017, leg. H. Mühle (1, HNHM)

Distribution – E: AU BE BU CT CZ FR GE GR HU IT MD NL PL RO SK SP ST SZ UK A: TR (CATE 2007). **First record for Albania.**

Cidnopus ruzenae (Laibner, 1977)

Material examined – SERBIA, Severnobački okrug, Opština Subotica, Radanovac, swept, 29.III.2017, leg. T. Németh & V. Szénási (1, HNHM).

Distribution – E: HU PL SK (CATE 2007) CZ (DUŠÁNEK 1999). **First record for Serbia.**

Diacanthous undulatus (De Geer, 1774)

Material examined – MONTENEGRO, Durmitor, Zmijnje jezero, 19.VII.1981, leg. B. Tallósi (1, PCBT).

Distribution – E: AU BY CR CT CZ EN FI FR GB GE IT LA LS LT NR NT PL RO SK SL SP SV SZ UK A: ES FE MG WS XIN NAR (CATE 2007). **First record for Montenegro.**

Ischnodes sanguinicollis (Panzer, 1793)

Material examined – ALBANIA, Qarku i Tiranës (Tiranë county), between Shkallë and Shengjin i Math, Lumi Erzen (Erzen river), N 41.3226°, E 19.9955°, 420 m a.s.l., riverside, from hollow *Platanus* 20.V.2017, leg. T. Németh (larva) (1, HNHM).

Distribution – E: AB AU BE BH CR CZ DE FR GB GE GR HU IT MD PL RO SK SL SP SV SZ UK A: IN JA SY (CATE 2007) TR (MERTLIK & PLATIA 2008) N: MO (RATTU & MASSARONE 2017). **First record for Albania.**

Lacon querceus (Herbst, 1784)

Material examined – CROATIA, Zagreb, Maksimir park, inside old oak, 14.X.2017, leg. B. Lauš (3, PCBL); same, but old oak stump, 12.XI.2017, leg. B. Lauš (2, PCBL).

Distribution – E: AU BU CT CZ FR GE GB HU IT LT PL RO SK SP SV SZ UK (CATE 2007) GR (PLATIA 2011).

Notes – Although *Lacon querceus* is not listed by CATE (2007) for Croatia, historical records for the country do exist. This species was found in Varaždinske Toplice and Lepoglava and recorded as *Elater querceus* Herbst (SCHLOSSER 1878). **Occurrence in Croatia confirmed after 139 years.**

Negastrius pulchellus (Linnaeus, 1758)

Material examined – CROATIA, Međimurska županija, Kotoriba, sandy shore of the river Mura, 22.IV.2017, leg. A. Kotán, T. Németh & V. Szénási (4, HNHM).

Distribution – E: AU BE BH BG BY CT CZ DE EN FI FR GB GE HU IT LA LT LU NL NR NT PL PT RO SK SL SP ST SV SZ UK A: ES FE KZ MG WS NAR (CATE 2007). **First record for Croatia.**

Paraphotistus nigricornis (Panzer, 1799)

Material examined – CROATIA, Ličko-senjska county, Šalamunić village, Laudonov gaj special reserve of forest vegetation, hand collected, 15.VI.2017, leg. B. Lauš (1, PCBL).

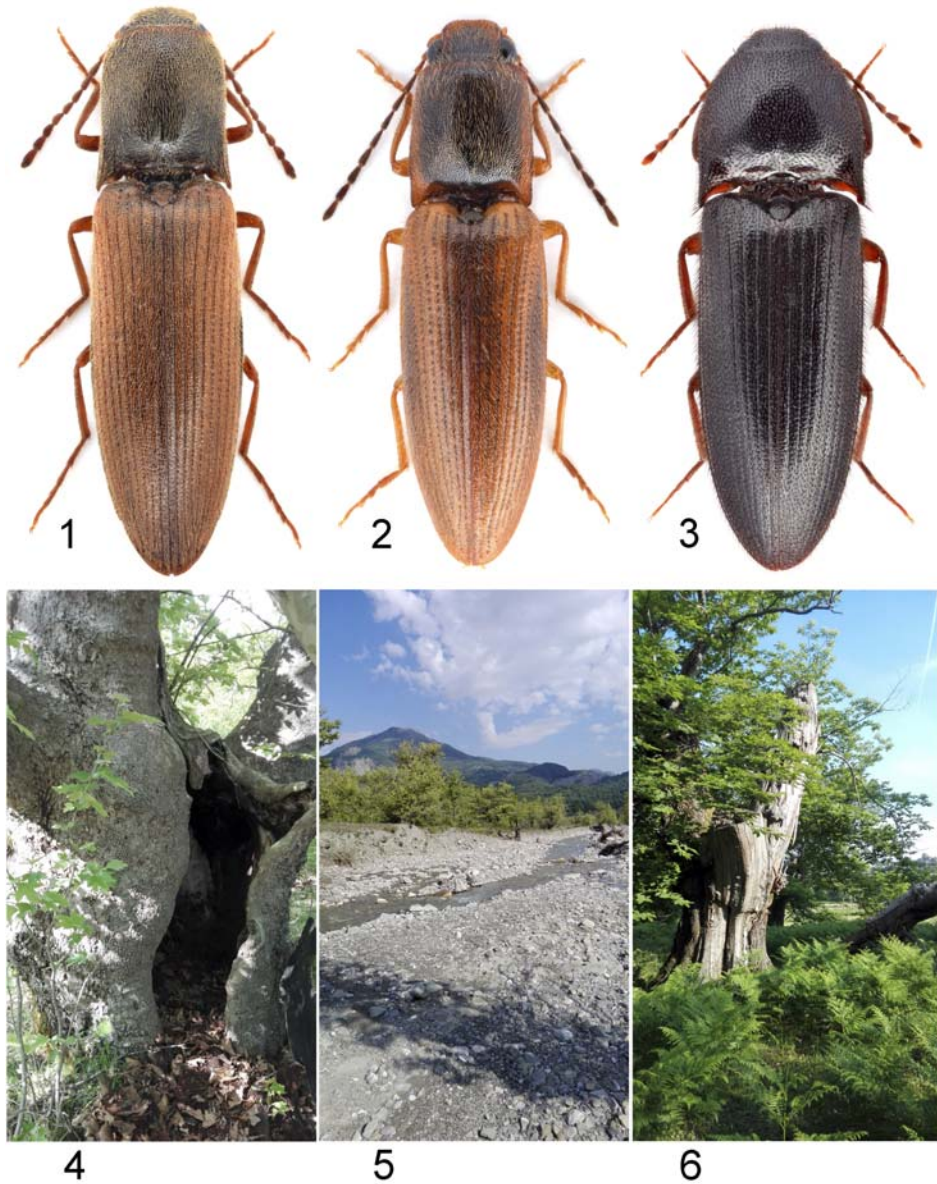
Distribution – E: AU BE BY CT CZ DE EN FI FR GB GE HU IT LA LT LU MD NL NR NT PL RO SK SL SP SV SZ UK A: ES KZ WS (CATE 2007).

Notes – Although *Paraphotistus nigricornis* is not listed by CATE (2007) for Croatia, historical records for this country do exist. The species was found on Kalnik mountain and Moslavina region in Croatia and recorded as *Diacanthus metallicus* Germ. (SCHLOSSER 1878), and from Račinovci and forest Muško ostrvo as *Ludius nigricornis* Panzer (KOČA 1905). **Occurrence in Croatia confirmed after 112 years.**

Selatosomus pasticus (Ménétries, 1832)

Material examined – SERBIA, Zlatibor, Šargan, 15.V.1991, leg B. Tallósi (1, PCBT).

Distribution – E: AB AL AR AU BE BH BU BY CR CT CZ EN FR GE GG GR HU IT LA LT LU MC MD NL PL PT RO SK SL SP ST SZ UK YU A: ES FE HEI IN JIL KZ MG NIN NMO SY TR WS (as *S. latus* (Fabricius, 1801) in CATE



Figs 1–3. Habitus: *Agriotes infuscatus* Desbrochers des Loges, 1870, 2 = *Athous vittatoides* Reitter, 1905, 3 = *Brachygonus dubius* (Platia et Cate, 1999). Not to scale – **Figs 4–6.** Habitats of click beetles: 4 = hollow *Platanus orientalis* at the riverside of Erzen, Albania, habitat of *Ischnodes sanguinicornis* and *Brachygonus dubius*, 5 = riverside of Erzen, Albania, habitat of *Microrhagus emyi*, 6 = *Castanea sativa* grove, Arbnež, Montenegro, habitat of *Athous vittatoides* (photos Tamás Németh)

2007). Excluded from the fauna of China (SCHIMMEL *et al.* 2015). **First exact record for Serbia.**

Quasimus minutissimus (Germar, 1822)

Material examined – MONTENEGRO, Ulcinj, Šaskojezero, 21.V.1989.05.21, leg. G. Mészáros (2, PCBT).

Distribution – E: AB AL AR AU BE BH BU CR CT CZ FR GE GG GR HU IT MC NL PL RO SK SL SP ST SZ UK YU A: IN TR “Siberia” (CATE 2007) E: LU (GEREND 2008). **First exact record for Montenegro.**

EUCNEMIDAE

Eucnemis capucina Ahrens, 1812

Material examined – GREECE, Makedonia, Mt. Ditiki Rodopi, 5 km N Ktafito, ravine forest, from beneath bark, 11.V.2009, leg. A. Kotán, A. Márkus & T. Németh (1, HNHM); Grevena env., Anixi, oak grove, beaten, 27.V.2011, leg. A. Kotán, A. Márkus & T. Németh (1, HNHM).

Distribution – E: AU BE BG BH BY CR CT CZ DE GE FI FR HU IT LA LS LT LU NL NR NT PL RO SP SK SZ SV WS N: AG (MUONA 2007). **First record for Greece.**

Farsus dubius (Piller et Mitterpacher, 1783)

Distribution – E: CR (SCHLOSSER 1878) AU IT RO BH “Caucasus” GR MN (HORION 1953) CZ FR HU SP YU (MUONA 2007) BU (MERTLIK *et al.* 2009) AL (MERTLIK 2011) A: SY TR (HORION 1953).

Notes – Although *Farsus dubius* is not listed by MUONA (2007) for Croatia, nor mentioned in later research papers such as NÉMETH & OTTO (2016), historical records for this country do exist. The species was found in Moslavina region and recorded as *Farsus unicolor* Latreille (SCHLOSSER 1878). Additionally, KOČA (1905) recorded it as *Hylochares dubius* Piller in the forests near Drenovci in the Slavonia region.

Isorhipis melasoides (Laporte, 1835)

Material examined – SERBIA, Fruška gora, Paragovo, V.1989, leg. B. Tallósi (4, PCBT).

Distribution – E: AU BH BU CR CT CZ FR GE HU IT PL RO SK SV A: TR (MUONA 2007). E: SZ (HORION 1953) GR (MERTLIK 2008). **First record for Serbia.**

Microrhagus emyi (Rouget, 1856)

Material examined – ALBANIA, Qarku i Tiranës (Tiranë county), between Shkallë and Shengjin i Math, Lumi Erzen (Erzen river), N 41.3226°, E 19.9955°, 420 m, riverside, swept and beaten, 20.V.2017, leg. D. Horváth, M. Lukátsi, O. Merkl, T. Németh, B. Szelenczey & V. Szénási (1, HNHM).

Distribution – E: AU CR CT CZ FR IT GE HU PL RO SK SP SV SZ UK “Yugoslavia” (MUONA 2007) BU SK ST GR (MERTLIK *et al.* 2007) A: TR (MERTLIK & PLATIA 2008). **First record for Albania.**

Otho sphondyloides (Germar, 1818)

Material examined – SERBIA, Fruška gora, Zmajevac, 17.VII.1982, leg. B. Tallósi (1, HNHM).

Distribution – E: AU BU BY CR CT FE GE HU LA RO UK A: JA (MUONA 2007). **First record for Serbia.**

Rhacopus sahlbergi (Mannerheim, 1823)

Material examined – BULGARIA, Primorsko env., 3m (42° 16' N, 27° 42.5' E), 17.VI.2010, at light, leg. J. Kadlec (1, PCJM).

Distribution – E: AU BH BY CR CT EN FI FR GE GR HU IT LA NT PL RO SK SV A: MG WS (MUONA 2007) E: SE A: TR (MERTLIK *et al.* 2007). **First record for Bulgaria.**

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