

True bugs and beetles new to Montenegro and Bulgaria (Insecta: Heteroptera, Coleoptera)

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ABSTRACT: From Montenegro, one species of Heteroptera, *Lethocerus patruelis*, and eight species of Coleoptera, *Ampedus cardinalis*, *Cardiophorus anticus* (Elateridae), *Diaperis boleti*, *Iphthiminus italicus croaticus*, *Opatrum verrucosum*, *Pedinus helopioides* (Tenebrionidae), *Prostomis mandibularis* (Prostomidae), *Camptorhinus simplex* (Curculionidae) are recorded for the first time. *Pytho depressus* (Pythidae) is recorded for the first time from Bulgaria.

In 2009, 2010 and 2011 the first author visited several times Montenegro and Bulgaria in order to investigate the fauna of aquatic insects (Ephemeroptera, Odonata, Plecoptera, Trichoptera). During the trips there were opportunities to collect other insects as well, including saproxylic beetles. In this paper new country records of one species of true bugs (Heteroptera) and nine species of beetles (Coleoptera) are presented.

The following species collected in 2009 and 2010 in Montenegro proved to be new to the country: *Lethocerus patruelis* (cf. OLIVIERI 2009), *Eucnemis capucina* (cf. MUONA 2007),



Fig. 1. Montenegro, Rumija Mts, chestnut grove around Krajina (photo Tibor Kovács)

Ampedus cardinalis, *Cardiophorus anticus* (cf. CATE 2007), *Diaperis boleti*, *Ipthiminius italicus croaticus*, *Opatrum verrucosum*, *Pedinus helopioides* (cf. LÖBL et al. 2008), *Prostomis mandibularis* (cf. SCHAWALLER 2008), *Camptorhinus simplex* (cf. STUEBEN 2011). Of the collecting sites in Montenegro, the chestnut forest around Krajina in the Rumija Mts (Fig. 1) deserves special mention, which is a habitat of the following species: *Ampedus cardinalis*, *Cardiophorus anticus*, *Diaperis boleti*, *Pedinus helopioides*, *Prostomis mandibularis*, *Camptorhinus simplex*.

In 2011, larvae of *Pytho depressus* were found in Bulgaria that represent a new country record of the species (cf. POLLOCK 2008). Later, still unpublished adults were found in the Hungarian Natural History Museum.

Abbreviations: EÁ = Ecsedi, Árpád, KT = Kovács, Tibor, MG = Magos, Gábor, PG = Puskás, Gellért, UL = Urbán, László; HNHM = Hungarian Natural History Museum (Budapest), MM = Mátra Museum (Gyöngyös).

HETEROPTERA

BELOSTOMATIDAE Leach, 1815

Lethocerus patruelis (Stål, 1854) (Fig. 2) – Montenegro, Ulcinj, Pašina, N41°55'32.9", E19°12'16.3", 18 m, 27.05.2009, 1, KT-MG-UL (HNHM).

COLEOPTERA

EUCNEMIDAE Eschscholtz, 1829

Eucnemis capucina Ahrens, 1812 – Montenegro, Rumija Mts, Sutorman, Baša, N42°09'25.8", E19°06'05.5", 765 m, 14.04.2010, from *Quercus* sp., 1, KT-MG-UL (MM).

ELATERIDAE Leach, 1815

Ampedus cardinalis (Schiodte, 1865) – Montenegro, Rumija Mts, Krajina, Kovačevići, 42°04'18.2", 19°21'27.6", 354 m, 15.04.2010, from *Castanea sativa*, 2, KT-MG-UL (MM).

Cardiophorus anticus Erichson, 1840 – Montenegro, Rumija Mts, Krajina, Kovačevići, N42°04'18.2", E19°21'27.6", 354 m, 15.04.2010, from *Castanea sativa*, 1, KT-MG-UL (MM).

(It should be noted that *Ctenicera virens* (Schrank, 1781) recorded from Donja Polja published by NÉMETH *et al.* (2009) was also new to Montenegro.)

TENEBRIONIDAE Latreille, 1802

Diaperis boleti (Linnaeus, 1758) – Montenegro, Rumija Mts, Krajina, Kovaševići, N42°04'18.4", E19°21'27.1", 354 m, 25.05.2009, UV light, 1, KT-MG-UL (HNHM).

Ipthiminius italicus croaticus (Truqui, 1857) (Fig. 3) – Montenegro, Bratonožići, Pavličići-Crnovidino, N42°32'22.9", E19°22'10.9", 185 m, 17.04.2010, beneath bark of oak, 2, KT-MG-UL (HNHM).

Opatrum verrucosum Germar, 1817 – Montenegro, Bratonožići, Pavličići-Crnovidino, N42°32'22.9", E19°22'10.9", 185 m, 17.04.2010, 1, KT-MG-UL (HNHM). Gornji Mileš, Rogamsko brdo, N42°23'53.9", E19°18'48.7", 100 m, 25.05.2009, 3, KT-MG-UL (HNHM).

Pedinus helopioides Ahrens, 1814 – Montenegro, Gornji Mileš, Rogamsko brdo, N42°23'53.9", E19°18'48.7", 100 m, 25.05.2009, 1, KT-MG-UL (HNHM). Rumija Mts, Krajina, Kovačevići, 42°04'18.2", 19°21'27.6", 354 m, 15.04.2010, 1, KT-MG-UL (HNHM).



Fig. 2. *Lethocerus patruelis*
(photo Gábor Magos)



Fig. 3. *Iphthiminus italicus croaticus*
(photo Tamás Németh)

PYTHIDAE Solier, 1834

Pytho depressus Linnaeus, 1767 – Bulgaria, Pirin Mts, J. Szandanski, 01–05.07.1976, 1, Podlussány, Attila (HNHM). Rila Mts, Tiha Rila, N42°08'00.3", E23°28'50.7", 2010 m, 21.06.2011, 2 larva, beneath bark of *Picea abies*, Juhász, Péter-KT-UL (MM); N42°07'50.8", E23°29'09.6", 2060 m, 07.10.2011, 1 larva, beneath bark of *Pinus peuce*, EÁ-KT-PG (MM). Vitosha Mts, Balabana, N42°36'51.1", E23°15'28.7", 1700 m, 03.10.2011, 1 larva, beneath bark of *Pinus* sp., EÁ-KT-PG (MM).

PROSTOMIDAE C. G. Thomson, 1859

Prostomis mandibularis (Fabricius, 1801) – Montenegro, Rumija Mts, Krajina, M. Ostros, Vrličí, N42°04'53.1", E19°18'43.3", 265 m, 16.04.2010, from *Castanea sativa*, 1 larva, 3 imago, KT-MG-UL (MM).

CURCULIONIDAE Latreille, 1802

Camptorhinus simplex Seidlitz, 1867 – Montenegro, Rumija Mts, Krajina, Kovaševići, N42°04'18.4", E19°21'27.1", 354 m, 25.05.2009, at UV light, 1, KT-MG-UL (MM).

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References

- CATE, P. C. (2007): Elateridae. Pp. 89–209. – In: LÖBL, I. & SMETANA, A. (eds): Catalogue of Palaearctic Coleoptera. Vol. 4. Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, 935 pp.
- STUEBEN, P. (2011): Fauna Europaea: Camptorhinus. – In: ALONSO-ZARAZAGA, M. A. (ed.): Fauna Europaea: Coleoptera, Curculionidae. Fauna Europaea version 2.4, <http://www.faunaeur.org>
- LÖBL, I., MERKL, O., ANDO, K., BOUCHARD, P., LILLIG, M., MASUMOTO, K. & SCHAWALLER, W. (2008): Tenebrionidae. Pp. 105–352. – In: LÖBL, I. & SMETANA, A. (eds): Catalogue of Palaearctic Coleoptera. Vol. 5. Tenebrionoidea. Apollo Books, Stenstrup, 670 pp.
- MUONA, I. (2007): Eucnemidae. Pp. 81–87. – In: LÖBL, I. & SMETANA, A. (eds): Catalogue of Palaearctic Coleoptera. Vol. 4. Elateroidea – Derodontoidea – Bostrichoidea – Lymexyloidea – Cleroidea – Cucujoidea. Apollo Books, Stenstrup, 935 pp.
- NÉMETH, T., MERKL, O. & KOVÁCS, T. (2009): A Mátra Múzeum bogárgyűjteménye. Pattanóbogarak (Coleoptera: Elateridae). (Beetle collection of the Mátra Museum, Gyöngyös, Hungary. Click beetles (Coleoptera: Elateridae).) – *Folia Historico-Naturalia Musei Matraensis*, 33: 157–168.
- OLIVIERI, N. (2009): 487 *Lethocerus* (*Lethocerus*) *patruelis* (Stål, 1854) (Heteroptera Belostomatidae). P. 116. – In: *Segnalazioni Faunistiche Italiane. Bollettino della Società Entomologica italiana Genova*, 141(2): 113–118.
- POLLOCK, D. A. (2008): Pythidae. Pp. 413–414. – In: LÖBL, I. & SMETANA, A. (eds): Catalogue of Palaearctic Coleoptera. Vol. 5: Tenebrionoidea. Apollo Books, Stenstrup, 670 pp.
- SCHAWALLER, W. (2008): Prostomidae. Pp. 352–353. – In: LÖBL, I. & SMETANA, A. (eds): Catalogue of Palaearctic Coleoptera. Vol. 5: Tenebrionoidea. Apollo Books, Stenstrup, 670 pp.

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