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Contribution to knowledge of the distribution of the false darkling beetles (Coleoptera: Melandryidae) of the Palaearctic Region

Příspěvek k rozšíření lencovitých brouků (Coleoptera: Melandryidae) v Palearktu

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Abstract. Records of twenty species of false darkling beetles (Melandryidae) are given. These include new country records and/or first concrete records for the following countries from Palaearctic Region: Albania, Bulgaria, China, Greece, Montenegro, Morocco, Serbia, Slovakia and Turkey. New records from Provinces of China – Guizhou, Hunan, Sichuan and Yunnan are also reported.

INTRODUCTION

In the Palaearctic Region, 191 species of the family Melandryidae are known (Nikitsky & Pollock 2008; Gusakov 2009; Konvička 2014, 2015). The data provided specify, supplement and extend the known distributions of false darkling beetles given in the recently published Palaearctic Catalogue of Coleoptera (Nikitsky & Pollock 2008).

MATERIAL AND METHODS

Taxonomy and nomenclature used in this study follow Nikitsky & Pollock (2008). Status of *Melandrya incostata* Fairmaire, 1889 follows Gusakov (2009). All specimens were determined by Ondřej Konvička.

The material included in this study is deposited in the following private collections:

ASPC – Adam Šíma, Praha, Czech Republic;
EEZC – Eduard Ezer, Zlín, Czech Republic;
ERVC – Enrico Ruzzier, Venice, Italy;
HBTC – Hervé Brustel, Toulouse, France;
JKHC – Jiří Krátký, Hradec Králové, Czech Republic;
JVOC – Jiří Vávra, Ostrava, Czech Republic;
MBPC – Milan Boukal, Pardubice, Czech Republic;
OKZC – Ondřej Konvička, Zlín, Czech Republic;
TKJC – Tomáš Kopecký, Jablonné nad Orlicí, Czech Republic;
TRPC – Tomáš Růžička, Praha, Czech Republic;
TSOC – Tomáš Sitek, Ostrava, Czech Republic.

RESULTS

Dircaea australis Fairmaire, 1856

Material examined. Montenegro: Njeguši, 42°25′30″N 18°50′45″E, 1100–1200 m a.s.l., 11.v.2014 (praepupae), reared from trunk of *Fagus*, A. Šíma lgt., 23 spec. (ASPC); same data, 11 spec. (OKZC).

Distribution. European species with discontinuous distribution, absent in northern Europe. In the Palaearctic catalogue (Nikitsky & Pollock 2008) the distribution is listed as "Serbia and Montenegro", as the acronym "YU". I present the first concrete record for Montenegro.

***Phloiotrya bellicosa* Lewis, 1895**

Material examined. China: Hunan Province, Shunhuang Shan Mts., 26°23′N 111°01′E, 900–1200 m a.s.l., 16. –17.vi.2011, Jatua lgt., 1 spec. (OKZC); Yunnan Province, Haba Shan Mts. [ca. 27°18′N 100°04′E], 22.–27.vi.2010, E. Kučera lgt., 1 spec. (OKZC).

Distribution. Species known from Japan, North Korea, South Korea, eastern Russia and Northeastern Chinese Territory (Nikitsky & Pollock 2008). The first records for Hunan and Yunnan Provinces.

***Phloiotrya tenuis* (Hampe, 1850)**

Material examined. Bulgaria: Petrich env., Belasitsa [ca. 41°20′N 23°09′E], 12.viii.2014, R. Lízler lgt., 2 spec. (JKHC, OKZC).

Distribution. European species, distributed eastwards to the Caucasus, absent from northern Europe. Distributed in southern Europe from Spain to Greece, from the Balkan Peninsula reported only from Croatia, Greece and Romania (Nikitsky & Pollock 2008). The first record for Bulgaria.

***Phloiotrya trisignata* Nomura, 1958**

Material examined. China: Sichuan Province, Dechang env., Ma Sang Ping, 27°12′53″N 102°16′40.5″E, 20.–21.vi.2005, I. Jeniš lgt., 1 spec. (OKZC).

Distribution. Species so far known only from Japan (Nikitsky & Pollock 2008). The first record for continental Asia and China.

***Stenoxylita trialbofasciata* Hayashi et Katô, 1956**

Material examined. China: Shaanxi Province, Daba Shan Mts., 15 km south of Shou-Man, 32°08′N 108°37′E, 1800–2100 m a.s.l., 25.v.–14.vi.2000, A. Plutenko lgt., 1 spec. (OKZC).

Distribution. So far known only from Japan (Nikitsky & Pollock 2008). The first record for continental Asia and China.

***Wanachia viberti* (Pic, 1905)**

Material examined. Morocco: Moyen Atlas Mts., Aguelmame Azigza [ca. 32°58′N 05°26′W], 4.xi.2009, H. Brustel lgt., 1 spec. (OKZC).

Distribution. Northern African species, so far known only from Algeria (Nikitsky & Pollock 2008). The first record for Morocco.

***Hypulus acutangulus* Lewis, 1895**

Material examined. China: Sichuan Province, Dechang env., Ma Sang Ping, 27°12′53″N 102°16′40.5″E, 20.–21.vi.2005, I. Jeniš lgt., 1 spec. (OKZC).

Distribution. Species so far known only from Japan (Nikitsky & Pollock 2008). The first record for continental Asia and China.

Marolia grandis **Peyerimhoff, 1917**

Material examined. Morocco: Rif Mts., Issaguen env., Bab Besene, 1600 m a.s.l., 4.–7. vi.1998, T. Lackner lgt., 1 spec. (TRPC); Rif Mts., Issaguen env., 7 km south of Souk Had Beni Rzine village, 34°58′03″N 04°43′54″W, 8.v.2015, O. Konvička lgt., beaten from fallen cedar branches (*Cedrus atlantica*), 23 spec. (OKZC); same data, E. Ezer lgt., collected as previous, 2 spec. (EEZC).

Distribution. Northern African species, so far known only from Algeria (Nikitsky & Pollock 2008). The first record for Morocco.

Marolia purkynei **Mařan, 1933**

Material examined. Montenegro: Biogradska Gora National Park, Bendovac [ca. 42°53′N 19°37′E], 28.–29.v.2014, P. Jansa lgt., 1 spec. (OKZC).

Distribution. Species known from Albania, Bosnia and Herzegovina, Bulgaria, Macedonia and Romania (Nikitsky & Pollock 2008, Kovács et al. 2012). In the Palaearctic catalogue (Nikitsky & Pollock 2008) the distribution is listed as "Serbia and Montenegro", as the acronym "YU". The first concrete record for Montenegro.

Melandrya caraboides **(Linnaeus, 1760)**

Material examined. Serbia: Valjevo env., Maljen planina, Bukovi [ca. 44°07′N 19°55′E], 770 m a.s.l., 25.v.2013, J. Mertlik lgt., in Fagetum, 1 spec. (OKZC).

Distribution. European species, extending eastwards to Turkey (Nikitsky & Pollock 2008). In the Palaearctic catalogue (Nikitsky & Pollock 2008) the distribution is listed as "Serbia and Montenegro", as the acronym "YU". The first concrete record for Serbia.

Melandrya incostata **Fairmaire, 1889**

Material examined. China: Guizhou Province, Fanjing Shan Mts., 20 km northeast of Jiangkou, Kuaichang [ca. 27°54′N 108°41′E], 27.v.–3.vi.1995, E. Jendek & O. Šauša lgt., 2 spec. (OKZC).

Note. *Bonzicus hypocrita* Lewis, 1895 and *Melandrya incostata* were until recently considered as two distinct species (Nikitsky & Pollock 2008). Gusakov (2009) stated that they are conspecific and synonymized the first with *Melandrya incostata* Fairmaire, 1889.

Distribution. Eastern Palaearctic species known from Japan and China. From China reported from Northeast Territory and from Sichuan Province (Nikitsky & Pollock 2008, Gusakov 2009). The first record for Guizhou Province.

Phryganophilus ruficollis **(Fabricius, 1798)**

Material examined. Albania: Stravaj [ca. 41°00′N, 20°22′E], [without date], Moravec lgt., 1 spec. (TRPC). **China:** Sichuan Province, Luding env., Jintangxiang [ca. 30°23′N 102°15′E], 22.–26.vi.2011, E. Kučera lgt., 1 spec. (OKZC).

Distribution. Rare Eurosiberian species, discontinuously distributed from France to Japan. From the Balkan Peninsula reported from Bosnia and Herzegovina, Croatia, Greece, Romania and from Serbia and Montenegro (Nikitsky & Pollock 2008, Fuchs & Bußler 2010, Brustel & Gouix 2012). From China reported from Northwest Territory (Nikitsky & Pollock 2008). The first records for Albania and Sichuan Province in China.

***Orchesia marseuli* Lewis, 1895**

Material examined. China: Fujian Province, Tianbaoyan Shan Mts., northwestern slopes, 25°58′N 117°31′E, 1100 m a.s.l., 12.vii.2007, Jatua lgt., 2 spec. (OKZC, TKJC).

Distribution. Species so far known only from Japan (Nikitsky & Pollock 2008). The first record for continental Asia and China.

***Orchesia micans* (Panzer, 1793)**

Material examined. Montenegro: Ulcinj env., Zoganj, 41°56′40″N 19°17′07″E, 2.v.2014 (praepupa), A. Šíma lgt., 1 spec. (ASPC).

Distribution. Western Palaearctic species. From the Balkan Peninsula reported from Albania, Bosnia and Herzegovina, Croatia, Greece, Romania, Turkey and from Serbia and Montenegro. In the Palaearctic catalogue (Nikitsky & Pollock 2008) the distribution is listed as "Serbia and Montenegro", as the acronym "YU". First concrete record for Montenegro.

***Orchesia luteipalpis* Mulsant et Guillebeau, 1857**

Material examined. Montenegro: Kolašin env., Mateševo [ca. 42°45′N 19°33′E], 27.v.2014, V. Hanzlík lgt., 1 spec. (OKZC). **Slovakia:** Rybník nad Hronom (faunistic grid = 7486), 6.v.2003, J. Plecháč lgt., 1 spec. (MBPC).

Distribution. Western Palaearctic species with discontinuous distribution throughout Europe, eastwards to the Caucasus, also in Turkey (Nikitsky & Pollock 2008, Konvička 2012). Nikitsky & Pollock (2008) reported this species from Slovakia, but without concrete data. In the Palaearctic catalogue (Nikitsky & Pollock 2008) the distribution is listed as "Serbia and Montenegro", as the acronym "YU". The first concrete records for Montenegro and Slovakia.

***Paralederia anatolica* (Frivaldszky, 1880)**

Material examined. Greece: Epirus Province, Pindos Mts., 1.7 km southwest of Milia village, 39°50′34.20″N 21°12′32.16″E, 1365 m a.s.l., 11.vi.2013, J. Vávra & T. Sitek lgt., in Fagetum on the fallen trunk of old beech (*Fagus sylvatica*) at night, 2 spec. (JVOC, TSOC); Epirus Province, Pindos Mts., 2 km southwest of Milia village, 39°50′18.52″N 21°12′09.49″E, 1380 m a.s.l., 20.vi.2014, J. Vávra lgt., in Fageto-Abietum on thin-fallen branches of fir (*Abies* sp.) at night, 2 spec. (JVOC).

Distribution. So far known only from Bulgaria and Turkey (Nikitsky & Pollock 2008). The first records for Greece.

***Mikadonius gracilis* Lewis, 1895**

Material examined. China: Henan Province, Funiu Shan Mts., Baotianman, 33°31′N, 111°56′E, 1500–1750 m a.s.l., 9.–10.vi.2008, Jatua lgt., 1 spec. (OKZC); same locality, 15.v.–5. vi.2009, 1 spec. (OKZC); Hunan Province, Shunhuang Shan Mts. [ca. 26°25′N 111°01′E], 700–1200 m a.s.l., 26.v.2012, Jatua lgt., 1 spec. (OKZC); Sichuan Province, Dechang env., Ma Sang Ping, 27°12′53″N 102°16′40.5″E, 20.–21.vi.2005, I. Jeniš lgt, 6 spec. (OKZC); Shaanxi Province, Daba Shan Mts., 15 km south of Shou-Man, 32°08′N 108°37′E, 1800–2400 m a.s.l., 25.v.–14.vi.2000, A. Plutenko lgt., 2 spec. (ERVC).

Distribution. Species so far known only from Japan and South Korea (Nikitsky & Pollock 2008). The first records for China.

***Serropalpus marseuli* Nikitsky, 1992**

Material examined. Turkey: Giresun Province, Dereli env., Yavuzkemal [ca. 40°40′N 38°19′E], 1300 m a.s.l., 3.vii.1998, S. Benedikt lgt., 1 spec. (OKZC); Artvin Province, Kaçkar Dağı Mts., Yusufeli [ca. 40°49′N 41°34′E], 1.–3.vii.2002, R. Novák lgt., 2 spec. (OKZC, TKJC).

Distribution. Known distribution from the Caucasus to Japan (Nikitsky & Pollock 2008). The first records for Turkey.

***Rushia parreyssii* (Mulsant, 1856)**

Material examined. Morocco: Rif Mts., Talassemtane [ca. 35°08′N 05°05′W], 20.vi.–4.vii.2013, 4 spec., 19.vii.2013, 8 spec., 31.vii.2013, 2 spec., 31.vii.–15.viii.2013, 2 spec., 22.v.2014, 1 spec., all spec. H. Brustel & Forest Research Centre of Rabat lgt., all specimens on Moroccan fir (*Abies marocana*) (HBTC); same locality, 19.vii.2013, P. Vitre & Forest Research Centre of Rabat lgt., 9 spec. (HBTC).

Distribution. So far known as a European species with centre of distribution in the Mediterranean Area, eastwards to Turkey and Cyprus and with isolated occurrence in northern Europe (Sweden), so far unknown from North Africa (Nikitsky & Pollock 2008). The first record for Morocco.

***Conopalpus testaceus* (Olivier, 1790)**

Material examined. Albania: Bogë [ca. 42°23′N 19°38′E], 2.vii.2010, T. Lengál lgt., 1 spec. (OKZC).

Distribution. Widely distributed European species, from the Balkan Peninsula reported from Bosnia and Herzegovina, Bulgaria, Croatia, Greece and Romania (Nikitsky & Pollock 2008). The first record for Albania.

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REFERENCES

BRUSTEL H. & GOUIX N. 2012: La chasse aux mythes! Petite contribution cryptoentomologique sur les Coléoptères de la Directive Habitats à rechercher en France. *Le Coléopteriste* **15**: 26–37.

FUCHS H. & BUßLER H. 2010: Wiederfund des Rothalsigen Düsterkäfers Phryganophilus ruficollis (Fabricius, 1798) in Deutschland (Coleoptera: Melandryidae). *Nachrichtenblatt der Bayerischen Entomologen* **59**: 10–13.

GUSAKOV A. A. 2009: Novye i maloizvestnye vidy zhukov-tenelyubov (Coleoptera: Melandryidae) iz Vostochnoy Palearktiki. (New and little known species of false darkling beetles (Coleoptera: Melandryidae) from the Eastern Palaearctic). *Eversmannia* **19–20**: 3–9 (in Russian, English summary).

KONVIČKA O. 2012: Notes on the distribution of beetles of the families Melandryidae and Tetratomidae in the Western Palaearctic region. *Klapalekiana* **48**: 203–206.

KONVIČKA O. 2014: Osphya lehnertae sp. nov. from Greece (Coleoptera: Melandryidae). *Klapalekiana* **50**: 161–166.
KONVIČKA O. 2015: Melandrya (Emmesa) jaromiri sp. nov. from China (Coleoptera: Melandryidae). *Acta Musei Silesiae, Scientiae Naturales* **64**: 97–99.
KOVÁCS T., NÉMETH T. & MERKL O. 2012: Beetles new to Albania, Croatia and Serbia (Coleoptera: Elateridae, Cucujidae, Melandryidae, Cerambycidae). *Folia Historico Naturalia Musei Matraensis* **36**: 43–44.
NIKITSKY N. B. & POLLOCK D. A. 2008: Family Melandryidae Leach, 1815. Pp. 64–73. In: LÖBL I. & SMETANA A. (eds): *Catalogue of Palaearctic Coleoptera. Vol. 5: Tenebrionoidea*. Apollo Books, Stenstrup, 670 pp.

SOUHRN

Prezentovány jsou nálezy 20 druhů brouků z čeledi lencovití (Melandryidae) z Palearktické oblasti. Třináct druhů je uvedeno nových pro jednotlivé státy. Pro Albánii jsou novými druhy *Conopalpus testaceus* (Olivier, 1790) a *Phryganophilus ruficollis* (Fabricius, 1798), pro Bulharsko *Phloiotrya tenuis* (Hampe, 1850), pro Čínu *Phloiotrya trisignata* Nomura, 1958, *Stenoxylita trialbofasciata* Hayashi et Katô, 1956, *Hypulus acutangulus* Lewis, 1895, *Orchesia marseuli* Lewis, 1895 a *Mikadonius gracilis* Lewis, 1895, pro Maroko *Marolia grandis* Peyerimhoff, 1917, *Rushia parreyssii* (Mulsant, 1856) a *Wanachia viberti* (Pic, 1905), pro Řecko *Paralederia anatolica* (Frivaldszky, 1880) a pro Turecko *Serropalpus marseuli* Nikitsky, 1992.

Uvedeny jsou také první konkrétní nálezy pěti druhů pro jednotlivé státy. Pro Černou horu to jsou druhy *Dircaea australis* Fairmaire, 1856, *Marolia purkynei* Mařan, 1933, *Orchesia luteipalpis* Mulsant et Guillebeau, 1857 a *Orchesia micans* (Panzer, 1793), pro Srbsko *Melandrya caraboides* (Linnaeus, 1760) a pro Slovensko *Orchesia luteipalpis*.

Dále jsou prezentovány nové druhy pro jednotlivé provincie Číny. Pro provincie Chu-nan a Jün-nan to je *Phloiotrya bellicosa* Lewis, 1895, pro Kuej-čou *Melandrya incostata* Fairmaire, 1889 a pro S′-čchuan *Phryganophilus ruficollis*.