

NEW RECORDS OF NEW AND RARE BEETLE (COLEOPTERA) SPECIES FOR LITHUANIA

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Introduction

Some beetle species new and rare for the Lithuanian fauna were collected and determined. The known list of beetle fauna of Lithuania (Tamutis *et al.*, 2011, Tamutis, 2012; Ferenca *et al.*, 2013, 2016; Ivinskis *et al.*, 2013, 2014, 2015; Monsevičius, 2013) is enriched by 11 species based on our investigation.

The aim of this paper is to report new faunistic data on Lithuanian beetles, collected during the study of beetles in various habitats.

Material and Methods

The material was collected during field research in different districts of Lithuania. Beetles were collected by Barber's windows, Malaise and light traps, special construction trap covering the wood. The material was identified using various keys (Burakowski *et al.*, 1978, 1979, 1980, 1987, 1991, Freude *et al.*, 1965-1989, Smeczynski, 1965, 1972, 1974). The material is deposited in authors' collections and in the collection of Laboratory of Entomology, Nature Research Centre. Species new for the Lithuanian fauna are deposited in Kaunas T. Ivanauskas Zoological Museum. Several abbreviations are used in the text, namely: J.R. – Jolanta Rimšaitė; P.I. – Povilas Ivinskis; A.J. – Aivaras Jefanovas; L.Š. – Lina Šlepetytė.

Species new to the Lithuanian fauna are marked with an asterisk (*).

List of localities

Locality	Administrative district	Coordinates (LAT, LONG)
Botanical garden	Kaunas municipality	54.86844, 23.91114
Butrimiškės	Alytus district	54.52347, 24.33673
Dukstyna entomological preserve	Ukmergė district	55.27974, 24.84771
Dūkštų Ažuolynas f.	Vilnius district	54.84306, 24.97028
Gvazdikai	Vilnius municipality	54.75019, 25.37839
Kalniškės	Vilnius district	54.84681, 25.17739
Lindiniškės	Vilnius district	54.78471, 25.23710
Perloja	Varėna district	54.20778, 24.37556
Pusnė	Molėtai district	55.14619, 25.19135
Rūdininkai f.	Šalčininkai district	54.37008, 25.09597
Spindžius lake environment	Trakai district	54.57247, 24.66865
Stemplių miškas f.	Šilutė district	55.04720, 22.07641
Šereitlaukis	Pagėgiai municipality	55.04720, 22.07641
Šimonių miškas f.	Kupiškis district	55.73890, 25.09855

Trakai environment, old gravel pit	Trakai district	54.62726, 24.98566
Viliukų miškas f.	Ukmergė district	55.23271, 24.53689

List of species

CARABIDAE

***Bradycellus harpalinus* (Audinet-Serville, 1821)**

Perloja, 08 09 2015, 2 spec. (P.I., J. R.).

***Carabus coriaceus* Linnaeus, 1758**

Rūdininkai f., 25 06 2016, 1 spec. at the edge of *Pinus* f., light trap (P.I., J. R.).

***Harpalus froelichii* Sturm, 1818**

Perloja, 08 09 2015, 1 spec. (P.I., J. R.).

***Platynus livens* (Gyllerhal, 1810)**

Viliukų miškas f., 01 10 2015 1 spec. (P.I., J.R.).

****Tachyura diabrachys* (Kolenati, 1845)**

Kalniškės, 14 04 2016, 1 spec. (P.I.). According to the list of the beetle fauna of Lithuania (Tamutis *et al.*, 2011) this species wasn't expected in Lithuania. It is distributed in Poland, Czech Republic, Slovakia, Hungary, South Europe (Audisio, 2013).

HYDROPHILIDAE

***Cercyon granarius* Erichson 1837**

Kalniškės, 17–24 04 2016, 1 spec. (P.I.).

LATRIDIIDAE

****Melanophthalma suturalis* (Mannerheim, 1837)**

Kalniškės, 06–13 09 2015, 1 spec. (P.I.).

LEIODIDAE

****Colon rufescens* Kraatz, 1850**

Dūkštų Ažuolynas f., 21-31 07 2014, 1 spec. (A.J.).

****Colon serripes* (Sahlberg, 1822)**

Gvazdikai, 07 08 2015, 1 spec. (P.I., J.R.).

STAPHYLINIDAE

***Atheta triangulum* (Kraatz, 1856)**

Kalniškės, 03–10 04 2016, 1 spec. (P. I.)

***Bibloporus minutus* Raffray, 1914**

Dūkštų Ažuolynas f., 31 07 2014, 29 08-08 09 2014, 29 08 2014, 08 09 2014, 6 spec. (A.J.).

***Euplectus punctatus* Mulsant et Rey, 1861**

Dūkštų Ažuolynas f., 09–19 06 2014, 1 spec. (A.J.).

****Neobisnius procerulus* (Gravenhorst, 1806)**

Stojai, 18 07 2015, 4 spec. (P.I., J.R.).

***Xantolinus audrasi* Coiffait, 1956**

Dūkštų Ažuolynas f., 08 29–08 09 2014, 1 spec. (A.J.); Kalniškės, 15 11 2015, 1 spec., (P. I.).

***Xantolinus dvoraki* Coiffait, 1956**

Trakai, old pit gravel, 01–23 12 2015, 1 spec. (P.I., J.R.).

APHODIIDAE

****Bodilus lugens* (Creutzer, 1799)**

Šimonių giria f., 03 08 2015, 1 spec. (L.Š.).

BUPRESTIDAE

****Coraebus undatus* (Fabricius, 1787)**

Stemplių miškas f., 07 08 2015, 1 spec. (P. I., J.R.).

ELATERIDAE

***Limonius minuta* (Linnaeus, 1758)**

Butrimiškės, 02 08 2010, 2 spec. (P.I., J.R.)

CRYPTOPHAGIDAE

****Atomaria puncticollis* Thomson, 1868**

Dūkštų Ažuolynas f., 10–20 05, 21–31 07 2014 2 spec. (A.J.).

***Cryptophagus populi* Paykull, 1800**

Kalniškės, 09–16 08 2015, 4 spec. (P. I.).

PHALACRIDAE

***Olibrus bimaculatus* Kaster, 1848**

Kalniškės, 06–13 09 2015, 1 spec., 15 11 2015, 1 spec.(P.I.).

COCCINELIDAE

***Harmonia oxyridis* (Pallas, 1773)**

Perloja, 08 09 2015, 5 spec, (P.I., J. R.).

NITIDULIDAE

***Epurea biguttata* (Thunberg, 1784)**

Dukstyna, 14–16 05 2013, 41 spec. (P.I., J. R.).

***Lamiogethes haemorrhoidalis* (Forster, 1849)**

Kalniškės, 03–24 04 2016, 18 spec.(P.I.).

***Lamiogethes morosus* (Erichson, 1845)**

Kalniškės, 03–24 04 2016, 4 spec.(P.I.).

SCRAPTIDAE

***Cyrtanaspis phalerata* (Geremar, 1831)**

Gvazdikai, 07 08 2015, 1 spec. (J.R.).

CORYLOPHIDAE

****Orthoperus corticalis* (Redtenbacher 1849)**

Dūkštų Ažuolynas f., 10–20 05 2014, 1 spec. (A.J.).

***Orthoperus nigrescens* Stephens, 1829**

Dūkštų Ažuolynas f., 20–30 05 2014, 3 spec. (A.J.).

CURCULIONIDAE

***Datonychus arquata* (Herbst, 1795)**

Dūkštų Ažuolynas f., 10–20 05 2014, 1 spec. (A.J.).

****Lignyodes bischoffi* (Blatchley, 1916)**

Kaunas Botanical garden, 13 07–09 09 2015, 2 spec. (P. I., J.R.). According to the list of beetle fauna of Lithuania (Tamutis *et al.*, 2011) species and genus wasn't expected in Lithuania. Distributed in Austria, Bulgaria, Hungary, Slovakia and Nearctic region (Alonso-Zarazaga, 2009).

***Magdalis caucasica* (Tournier, 1872)**

Pusnė, 07 06 2012, 1 spec. (P.I., J. R.).

APIONIDAE

**Cyanapion afer* (Gyllenhal, 1833)

Kalniškės, 02–10 08 2015, 1 spec. (P. I.). According to the list of beetle fauna of Lithuania (Tamutis *et al.*, 2011) species was expected in Lithuania.

Discussion

Data about 21 rare beetle species belonging to 11 families and 11 new beetle species belonging to 10 families are presented. Nine of these species (*Melanophthalma suturalis*, *Colon rufescens*, *Colon serripes*, *Neobisnius procerulus*, *Bodilus lugens*, *Coraebus undatus*, *Atomaria puncticollis*, *Orthoperus corticalis*, *Cyanapion afer*) were expected to be found in the Lithuanian fauna (Tamutis *et al.*, 2011) and, according to the faunistic publications of different authors (Alexandrovich *et al.*, 1996; Alonzo-Zarazaga, 2013; Burakowski *et al.*, 1987; Legalov, 2006; Lundberg & Gustafsson, 1995; Otero *et al.*, 2009; Silfverberg, 2004; Smreczynski, 1965, 1972, 1974; Telnov, 2004; Telnov *et al.*, 2005, 2006; Wanat & Mokryzcki, 2005), are distributed in neighbouring countries.

Tachyura diabrachys wasn't expected in Lithuanian fauna (Tamutis *et al.*, 2011), this species is mostly distributed in the countries of the Mediterranean sea (Vigna Taglianti, 2013). *Lignyodes bischoffi* is a South American species, it is found as an invasive species in countries of central Europe as well as in Poland. This species develops on the seeds of *Fraxinus pensylvanica*, *F. americana* and *F. nigra* (Gosik *et al.*, 2001).

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Naujos ir retos Lietuvoje vabalų (Coleoptera) rūšys

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Santrauka

Pateikiami duomenys apie 21 retą ir 11 naujų Lietuvos faunai vabalų rūšių. Devynios iš rastų naujų rūšių (*Melanophthalma suturalis*, *Colon rufescens*, *Colon serripes*, *Neobisnius procerulus*, *Bodilus lugens*, *Coraebus undatus*, *Atomaria puncticollis*, *Orthoperus corticalis*, *Cyanapion afer*) buvo tikėtinos Lietuvos vabalų faunoje, jos yra paplitusios kaimyninėse valstybėse.

Tachyura diabrachys nauja Lietuvos faunos vabalų rūšis, kurios nebuvo tikimasi aptikti Lietuvoje, šios rūšies vabalai daugiausiai aptinkami pietų Europoje, Balkanuose, Viduržemio jūros regiono šalyse. *Lignyodes bischoffi* rūšies vabalai buvo natūraliai paplitę Pietų Amerikoje, pateko į Europą, dabar ši svetimžemė rūšis randama keliose centrinės Europos valstybėse, rasta Lenkijoje. Šios rūšies vabalai vystosi *Fraxinus pensylvanica*, *F. americana*, *F. nigra* sėklose.

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