

## DATA ON BEETLE (COLEOPTERA) SPECIES NEW TO LITHUANIAN FAUNA

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### Introduction

The species composition of beetles (Coleoptera) is not completely known in Lithuania. The last catalogue of Lithuanian Coleoptera includes 3597 species of beetles, additionally 1390 species are considered as expected to occur in the country (Tamutis *et al.*, 2011). During the five year period after publication of above mentioned catalogue, 104 species of beetles have been found in the country for the first time (Ferenca *et al.*, 2011, 2013; Nagrockaitė *et al.*, 2011; Tamutis, 2012; Ivinskis *et al.*, 2013, 2014, 2015; Monsevičius 2013; Tamutis & Barševskis, 2014). Assuming this tendency endures, we can hope that the mission of the catalogue to encourage faunistic study in the country will be achieved. Here we present the data on beetle species newly recorded in Lithuania and contribute the knowledge on Lithuanian Coleoptera fauna.

### Material and Methods

The material was collected using windows traps, Barber's traps, light traps with 150 W blended mercury lamp bulb and sweeping net as well. Some specimens were collected by sifting the forest litter.

The majority of the species was collected by the authors: Romas Ferenca (R.F.), Vytautas Tamutis (V.T.), Vytautas Inokaitis (V.I.) and Kazimieras Martinaitis (K.M.). Two specimens were collected by Aleksandras Meržijevskis (A.M.).

The specimens were identified following the keys of Assman (2004), Besuchet (1971) and Lohse (1964).

All the specimens are preserved in the collection of Kaunas T. Ivanauskas Zoological museum.

### List of localities

Ažuolynė	Jonava district	55.129722, 24.480277
Ažvinčiai Nat.R.	Ignalina district	55.447222, 26.068055
Braziūkai env.	Kaunas district	54.901666, 23.484444
Jiesia landscape pr. (1)	Kaunas district	54.856666, 23.934166
Jiesia landscape pr. (2)	Kaunas district	54.856944, 23.931666
Jiesia landscape pr. (3)	Kaunas district	54.847777, 23.932222
Jiesia landscape pr. (4)	Kaunas district	54.853333, 23.939444

Jiesia landscape pr. (5)	Kaunas district	54.853611, 23.939166
Juodkrantė env.	Neringa municipality	55.555000, 21.127500
Juškinės Miškas f.	Šakiai district	55.019444, 23.462777
Karmėlavos Miškas f. (1)	Kaunas district	54.960277, 24.110277
Karmėlavos Miškas f. (2)	Kaunas district	54.963333, 24.115833
Kaunas	Kaunas district	54.905000, 23.913611
Kriūkai	Šakiai district	55.068888, 23.391111
Minčios Miškas f.	Ignalina district	55.484722, 25.980555
Naujenėlė	Kalvarija municipality	54.360833, 23.181388
Pilėnų Miškas f.	Kaunas district	54.963611, 24.035555
Punios Šilas f.	Alytus district	54.543055, 24.087500
Školkampio Miškas f. (1)	Kazlų Rūda municipality	54.879444, 23.575555
Školkampio Miškas f. (2)	Kazlų Rūda municipality	54.879722, 23.575833
Tervydoniai tsh. (1)	Šakiai district	55.027777, 23.444444
Tervydoniai tsh. (2)	Šakiai district	55.026944, 23.446111
Vilkija	Kaunas district	55.046111, 23.558055

### List of species

#### CARABIDAE

##### *Calathus cinctus* Motschulsky, 1850

Tervydoniai (1), agricultural land, wheat stubble, 20 08 2015, 1 ♂ (R.F.); Juškinės Miškas f., grassland of forest edge, 28 08 2016, 1 ♀ (R.F.).

Comments. The distribution of this species is still not known completely (Aleksandrowitz, 2012) because of comparatively new taxonomic status of this taxa. *C. cinctus* was regarded as synonym of *C. mollis* (Marsham, 1802) (Vereschagina, 1984) and established as a good species only in 1990 (Aukema, 1990). The presence of *C. mollis* in almost whole Europe was noted in the Catalogue of Palaearctic Coleoptera (Hovorka & Scaky, 2003), however *C. cinctus* is noted only for western and southern part of Europe. The controversial pattern of distribution ranges of these two species are presented in the check list of Russia and adjacent lands (Kryzhanowskij *et al.*, 1995) and in a well-known interactive database “Fauna Europaea” (Vigna Taglianti, 2014). Indeed the trustworthy data on the presence of *C. mollis* in Lithuania is still missing, because old records of these species in the territory of Lithuania (Ogijewicz, 1933) are not confirmable (the specimens are lost). Assuming the new knowledge of distribution of these species in Europe, we suggest attribution of previous records of *C. mollis* to *C. cinctus*, as the distribution of later species in territory of Lithuania is proved by our recent findings. Both specimens were found in open area with loamy soils. The photos of habitus and male genitalia of our specimen are presented in Fig. 1–2.

##### *Platyderus rufus* (Duftschmid, 1812)

Juodkrantė, 10 09 2014, 1 ♂ (R.F.).

Comments. Only 2 species: *Platyderus depressus* (Audinet-Serville, 1821) syn. *ruficollis* (Marsam, 1802) and *P. rufus* have been reported for Central European countries (Hovorka & Scaky, 2003). *P. depressus* reaches further to the north, where it has been detected in the Netherlands (Aukema & Baars, 1986) and in southern Norway (Skartveit *et al.*, 2000), while the distribution range of *P. rufus* reaches Slovak and Czech Republics (Hůrka, 1996), southern Poland (Burakowski *et al.*, 1973) and north-western

Ukraine (Aleksandrowicz, 2014). So, the finding of this species in the territory of our country was quite unexpected. Our specimen was found in the sand of shady shore of Curonian lagoon. The habitus of the specimen is presented in Fig. 3.

#### PTILIIDAE

##### ***Pteryx suturalis* (Heer, 1841)**

Minčios Miškas f., 19 06-25 07 2013, 1 spec., 25 07-28 08 2013, 1 spec. caught using windows traps, in *Pinetum vaccinio-mirtillorum* stand (V.T.); Ažuolynė, 24 02 2014, 1 spec. in litter of *Pinetum vaccinio-mirtillorum* stand (V.T.).

Comments. This species is widespread in almost all the Europe from Mediterranean basin to Fennoscandia reaching beyond to the extreme Northern provinces (Johnson, 2004; Polilov, 2014) *P. suturalis* is regarded as typical dweller of rotting wood and forest litter (Burakowski *et al.*, 1978), as eudominant species it was found in decaying birch (*Betula* spp.) wood (Sawoniewicz, 2013).

##### ***Ptinella aptera* (Guérin-Ménéville, 1839)**

Ažvinčiai Nat. R., 09 01 2014, 1 spec. in litter of *Pinetum vaccinio-mirtillorum* stand (V.T.).

Comments. Like the previous species, it is widely distributed in Europe (Johnson, 2004; Polilov, 2014), recently found in the North American continent (Sörensson, 2003), but still not registered in north-eastern part of the region as well as in the eastern Baltic countries. The preference of this species in decaying wood is well known (Jonsell & Hansson, 2011; Sawoniewicz, 2013). We suppose that both these species of Ptiliidae should be widely distributed in Lithuanian forests.

#### STAPHYLINIDAE

##### ***Lordithon speciosus* (Erichson, 1840)**

Ažvinčiai Nat.R., 25 07-28 08 2013, 1 spec., caught using windows traps, in *Pinetum vaccinio-mirtillorum* stand (V.T.).

Comments. This eurosiberian, boreo-mountaine species is known throughout the whole northern and middle Europe, but is still not recorded from several countries (Smetana 2004; Schuelke, 2014). It is considered a relic species of primeval coniferous forests (taiga) in central Europe and is in the lists of threatened species in some countries (Geiser, 1992; Pawlowsky, 2008).

##### ***Atheta europaea* Likovsky, 1984**

Minčios Miškas f., 29 05-19 06 2013, caught using windows traps, *Pinetum vaccinio-mirtillorum* stand, 1 spec. (V.T.).

Comments. *A. europaea* is insufficiently known species in Europe. Till now it was reported only from several European countries (Smetana, 2004; Silfverberg, 2010). Our specimen was identified by Viktor B. Semenov (Institute of Medical Parasitology and Tropical Medicine of E.I. Martsinovsky, Moscow, Russia).

#### ELATERIDAE

##### ***Danosoma conspersum* (Gyllenhal, 1808)**

Karmėlavos Miškas f. (2), 25 07 2005, 1 spec. (V.I.), Školkampio Miškas f. (1), 31 08 2016, 2 spec. (K.M.), Školkampio Miškas f. (2), 1 spec. (R.F.) (Fig. 4).

Comments. It is a boreal Eurasian species distributed from Scandinavian peninsula to Russian Far East and Korean peninsula (Cate, 2007). Its range reaches extreme northern provinces in Sweden and Finland (Lundberg & Gustavsson, 1995). The Bialowezha forest is the most southern area of records of this species (Burakowski *et al.*, 1985). The larvae are carnivorous, live under the bark of dead coniferous, rarely deciduous trees or

in the rotten wood of its stumps and trunks situated in well sun exposed areas (Tarnawski & Buchholz, 2008).

#### DASYTIDAE

##### *Danacea pallipes* (Panzer, 1793)

Jiesia landscape pr. (1), 09 06 2016, 1 spec. (R.F.) (Fig. 5).

This species is distributed in the southern and Central Europe, northward to southern part of Sweden and Estonia (Lundberg & Gustavsson, 1995; Silfverberg, 2010). The larvae of this species develop in dead wood of maple (*Acer platanoides*) in the larvae tracks of *Allosterna tabacicolor* (Constantin, 1989).

#### COCCINELLIDAE

##### *Oenopia impustulata* (Linnaeus, 1767)

Jiesia landscape pr. (2), 18 05 2016, 1 spec. (R.F.) (Fig. 6).

This species is distributed in Southern and Central Europe, north to Poland (Canepari, 2014). It is registered here for the first time for the eastern Baltic region and Fennoscandia.

#### MELANDRYIDAE

##### *Phloiotrya subtilis* (Reitter, 1897)

Punios Šilas f., 27 06 2008, 1 spec. (R.F.).

Comments. This species is distributed in the eastern part of Europe, from Poland to Croatia and Serbia, also known in the western part of Russia (Nikitsky, 2014). The larvae feed on dead, partly rotten wood trunks and branches, infected by fungi. Larvae of this species occur mainly on hazel, also were found in the rotten wood of beeches, oaks, alders and willows.

#### TENEBRIONIDAE

##### *Mycetochara obscura* (Zetterstedt, 1838)

Minčios Miškas f., 19 06-25 07 2013, caught using windows traps in *Pinetum vaccinio-mirtillorum* stand 1 spec. (V.T.).

Comments. This species is distributed mainly in Northern Europe: Fennoscandia, northern part of Russia, Estonia and Latvia (Silferberg, 2010; Fattorini, 2014; Telnov, 2004), also known in Poland (Burakowski *et al.*, 1987).

Larvae develop in wood of oak, birch and spruce infected by fungi, under the bark in the larvae tracks of longhorn beetles (Cerambycidae).

#### OEDEMERIDAE

##### *Ischnomera caerulea* (Linnaeus, 1758)

Pilėnų Miškas f., 01 06 2015, 1 spec. (V.I.).

Comments. This species is widespread in Europe from the Mediterranean sea to the southern Scandinavia (Lundberg & Gustvasson, 1995; Silfverberg, 2010; Vazquez – Albalate, 2014).

The larvae occur on the trunks of dead deciduous trees, especially in places damaged and without bark.

##### *Ischnomera cyanea* (Fabricius, 1792)

Karmėlavos Miškas f. (1), 28 04 2015, 1 spec. (V.I.).

Comments. This species is distributed mainly in the southern and central Europe north to Denmark and southern Sweden (Lundberg & Gustvasson, 1995; Silfverberg, 2010; Vazquez – Albalate 2014).

It is associated with the decayed wood of deciduous trees: oak, elm, beeches, maple, poplars, willow and chestnut. Larvae has two-year development cycle.



Fig. 1–9: 1. *Calathus cinctus* (photo R.Ferenca); 2. *C.cinctus* genitalia (photo V.Tamutis); 3. *Platyderus rufus* (photo R.Ferenca); 4. *Danosoma conspersum* (photo K.Martinaitis); 5. *Danacea pallipes* (photo R.Ferenca); 6. *Oenopia impustulata* (photo R.Ferenca); 7. *Trichoferus campestris* (photo K.Martinaitis); 8. *Otiorhynchus porcatus* (photo R.Ferenca); 9. *Lixus pulverulentus* (photo R.Ferenca).

## SCRAPTIIDAE

***Cyrtanaspis phalerata* (Germar 1847)**

Minčios m., 19 06-25 07 2013, caught using windows traps, *Pinetum vaccinio-mirtillorum* stand, 1spec. (V.T.).

Comments. The distribution range of this European species covers the territory of central Europe (Leblanc *et al.*, 2008), reaches southern Sweden (Lundberg & Gustavsson, 1995), Finland, Karelia, Estonia, Latvia (Silfverberg, 2010), but seems to be rare and sporadic in the whole range (Geiser, 1992; Kubisz *et al.*, 2014). This species is regarded as forest species, occurring on wood edges and in light spaces in tree stands (Kubisz *et al.* 2014), probably occurs all over our country.

## CERAMBYCIDAE

***Trichoferus campestris* (Faldermann, 1835)**

Kaunas, 19 08 2012, 1 spec., 01 08 2013, 1 spec., 28 07 2014, 2 spec., 06 08 2015, 1 spec. (V.I.) (Fig. 7). Caught using light trap.

Comments. *T. campestris* is native to eastern Asia (e.g., Far East, Japan, Korean peninsula, most of P. R. China, Mongolia, Southern Ural, Central Asia, Armenia, and southern part of European Russia (Grebenikov *et al.*, 2010). Over the last forty years it has spread in many European countries westward to Sweden, Poland, France (Dascălu *et al.*, 2013), was also detected in North America (Grebenikov *et al.*, 2010). This species is polyphagous on both deciduous trees and conifers (Iwata & Yamanda, 1990). The larvae develop under the bark and in the wood of healthy trees (Dascălu *et al.*, 2013). *T. campestris* is included in the list of quarantine species in Europe (EPPO, 2015). The identification of our specimens was confirmed by M. L. Danilevsky (A.N. Severtsov Institute of Ecology and Evolution Russian Academy of Sciences, Moscow).

## ATTELABIDAE

***Lasiorhynchites olivaceus* (Gyllenhal, 1833)**

Jesia landscape pr. (3), 26 05 1985, 1 spec. (R.F.); Jesia landscape pr. (4), 04 06 2005, 1 spec. (A.M.); Jesia landscape pr. (5), 24 06 2005, 1 spec. (R.F.); Vilkija, 17 05 1997, 1 spec. (A.M.).

This species is distributed in the southern and central parts of Europe, reaching north to Denmark, southern Sweden. (Burakowski *et al.*, 1987; Silfverberg, 2010; Biondi, 2014). Larvae develop in the young shoots of oaks.

## CURCULIONIDAE

***Ceuthorhynchus canaliculatus* C. Brisout, 1869**

Bražiūkai env., 30 05 2012, 1 spec., xerothermic habitat with sparse vegetation, on *Berteroia incana* (V.T.).

Comments. This species was previously known only from the central and south-eastern part of Europe (Burakowski *et al.*, 1993; Colonnelli, 2014), but it has recently been recorded also in the southern part of Russia and western Siberia (Legalov, 2009; Arzanov, 2015).

***Ceuthorhynchus pumilio* (Gyllenhal, 1827)**

Kriūkai, 30 07 2000, 1 spec. (R.F.).

Comments. This species is widely distributed in Western Europe, its range reaches Ukraine and Poland in the east (Colonnelli, 2014). The larvae of this monophagous species feed on seeds of *Teesdalia nudicaulis* (Burakowski *et al.*, 1993). This is the first record of this species in the Baltic countries.

***Mogulones raphani* (Fabricius, 1792)**

Braziūkai env., 19 06 2012, 3 spec., moist meadow, on *Symphytum officinale* (V.T.)  
Comments. This species is widespread in Central Europe, eastward to Romania and Ukraine (Colonnelli, 2014). Larvae feed on stems and root collar of *Symphytum officinale* (Burakowski *et al.*, 1993). This is the first record of this species in the Baltic countries.

***Otiorrhynchus porcatus* (Herbst, 1795)**

Tervydoniai (2), in plantation of strawberries, 26 04 2014, 1♀, 25 05 2014, 1♂ 1♀ (R.F.).

Comments. This species is widely distributed in Western Europe, its range reaches Finland and Poland in the east (Magnano, 2014), it is also introduced in North America (Majka & MacIvor, 2009). *O. porcatus* occurs in open areas, was observed feeding on the leaves of *Primula officinalis*, *Convallaria majalis*, *Fragaria vesca* and *F. grandiflora* (Burakowski *et al.*, 1993). This is the first record of this species in the Baltic countries (Fig. 8).

***Lixus pulverulentus* (Scopoli, 1763)**

Naujenėlė, 09 06 2015, 1 spec. (R.F.) (Fig. 9).

Comments. This species is widely distributed in Europe (Talamelli, 2014), known in Turkey (Avgin & Colonnelli, 2011) and northwards in Sweden (introduced) (Lundberg & Gustavsson, 1995), its range reaches Iran in the east (Ghahari & Legalov, 2011). It has been recently recorded in Kaliningrad region (Alekseev *et al.*, 2015). This species develops on *Malva silvestris*, *Althaea officinalis*, *Vicia faba*, *Cirsium arvense*, *C. palustre*. Adults feed on leaves, flowers and young shoots. Female lays eggs inside the stems. The larvae feed in the core, which is transformed. The pupal stage continues about two weeks. Imago overwinters in the withered stem or in the soil (Burakowski *et al.*, 1993).

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## Duomenys apie naujas Lietuvos faunos vabalų (Coleoptera) rūšis

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### Santrauka

Pateikiami duomenys apie 21 naują Lietuvos faunos vabalų rūšį. Keturiolika iš jų buvo įtrauktos į Lietuvos vabalų katalogą kaip ieškotinos Lietuvoje, o likusios 7 – pirmą kartą minimos Lietuvos entomologų publikacijose.

Pateikiamas informacija apie invazinę Rytų Azijos ūsuocių rūšį *Trichoferus campestris* (Faldermann, 1835). Ši rūšis, Europoje pirmą kartą rasta 1967 m. Ukrainoje ir Pietų Rusijoje, pastaraisiais metais plačiai išplito daugelyje Europos šalių.

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