INTERESTING FINDINGS OF BEETLE (COLEOPTERA) SPECIES IN LITHUANIA IN 2012–2016

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Introduction

Coleoptera is one of the biggest and best studied orders of insects in Lithuania. The most comprehensive list of Lithuanian Coleoptera containing 3597 species of beetles was published by Tamutis et al. (2011). Every year, numbers of articles presenting new and rare species for Lithuanian Coleoptera fauna are presented (Ferenca et al., 2011; Tamutis, 2012; Monsevičius, 2013; Ivinskis et al., 2014, 2015, etc.). Despite all the work and publications by coleopterologists, knowledge about Coleoptera fauna in Lithuania is still incomplete.

The aim of this paper is to supplement information on Lithuanian Beetles fauna and present some data on rare and new Coleoptera species from different regions of Lithuania.

Material and Methods

The majority of material was collected and identified by the author. Some specimens were collected by Sigutis Obelevičius (S.O.), Kęstutis Obelevičius (K.O.) and Darius Sirvydis (D.S.). The specimens were observed during various field trips, caught using the sweep net, survey of ground surface, dead wood, under the bark of dead trees.


The material is deposited in the author’s personal collection.

List of localities

<table>
<thead>
<tr>
<th>Location</th>
<th>District</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kylininkų pievos meadow</td>
<td>Vilkaviškis district</td>
<td>54.519583, 22.779444</td>
</tr>
<tr>
<td>Lake Rūžas</td>
<td>Ignalina district</td>
<td>55.494166, 26.479138</td>
</tr>
<tr>
<td>Lazdynai</td>
<td>Vilnius city</td>
<td>54.680055, 25.216500</td>
</tr>
<tr>
<td>Mančiagirė env., Dzūkija NP</td>
<td>Vareṇa district</td>
<td>54.128944, 24.467805</td>
</tr>
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<td>Panemunė</td>
<td>Kaunas city</td>
<td>54.865694, 23.990777</td>
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<td>Pavilniai regional park</td>
<td>Vilnius city</td>
<td>54.689944, 25.355194</td>
</tr>
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<td>Šimoninių giria forest</td>
<td>Anykščiai district</td>
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<td>Šveicarjio parkas forest</td>
<td>Vilnius city</td>
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<td>Anykščiai district</td>
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<td>Traupis environment (2)</td>
<td>Anykščiai district</td>
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</tr>
<tr>
<td>Žaliosios pievų Botanical-Zoological preserve</td>
<td>Anykščiai district</td>
<td>55.562861, 24.808472</td>
</tr>
</tbody>
</table>
List of species

CARABIDAE

**Carabus coriaceus** Linnaeus, 1758
- Panemunė, 02 10 2016, 2 spec. (1 dead), in a house basement. (K.O.).

**Stomis pumicatus** (Panzer, 1796)
- Traupis env. (1), 21 07 2015, 1 spec., under tree stump (S.O.).

STAPHYLINIDAE

*Sepedophilus wankowiczi* (Pandellé, 1869)
- Žaliosios pievų Botanical-Zoological pr., 21 08 2014, 1 spec., in forest, on mushroom (det. M. Schülke).
- The information on record of *Sepedophilus bipustulatus* (Gravenhorst, 1802) previously published by Ž. Obelevičius (Obelevičius, 2015) was based on misidentification. The specimen was reexamined by Dr. Michael Schülke (Germany, Museum für Naturkunde Berlin, Leibniz Institute for Research on Evolution and Biodiversity at the Humboldt-University) and related to *Sepedophilus wankowiczi* (Pandellé, 1869), which is presented here as a new species for Lithuanian fauna.

**Emus hirtus** (Linnaeus, 1758)
- Kylininkų pievų meadow, 05 07 2015, in the dung of cow.

CETONIIDAE

**Protaetia lugubris** (Herbst, 1786)
- Traupis env. (1), 01 07 2015, 1 spec., on blooming plant (S.O.), 21 07 2015, 1 spec., on blooming plant.

DERMESTIDAE

**Trogoderma angustum** (Solier, 1849)
- Lazdynai, 05 05 2015, 1 spec., inside flat.

TROGOSSITIDAE

**Peltis grossa** (Linnaeus, 1758)
- Dzūkija national park, 27 06 2016, 1 spec., under the bark of a dead spruce (*Picea abies*).

MALACHIIDAE

**Cordylepherus viridis** (Fabricius, 1787)
- Kylininkų pievų meadow, 05 07 2015, 1 spec., in a meadow, on a plant leaf.

COCCINELLIDAE

**Ceratomegilla notata** (Laicharting, 1781)
- Šveicarjos parkas f., 27 06 2012, 1 spec., in meadow by sweeping net.

TENEBRIONIDAE

**Neomida haemorrhoidalis** (Fabricius, 1787)
- Traupis env. (1), 15 07 2015, 1♀, found dead in a greenhouse.

**Cteniopus sulphureus** (Linnaeus, 1767)
- Pavilniai regional park, 19 07 2016, >50 spec., on blooming Apiaceae plants.

MELOIDAE

**Meloe brevicollis** Panzer, 1793
- Traupis env. (2), 29 06 2015, 1 spec., in a meadow.

CERAMBYCIDAE

**Prionus coriarius** (Linnaeus, 1758)
- Šimonių giria f., 26 07 2013, 1 spec., on a deciduous tree (D.S.).
Obrium cantharinum (Linnaeus, 1767)
Traupis env. (1), 08 08 2015, 1 spec., inside house, attracted by light.

Clytus arietis (Linnaeus, 1758)
Traupis env. (1), 22 07 2013, 2 spec., on a pile of logs, 19 06 2015, 1 spec., on pile of logs.

Aegomorphus clavipes (Schrank, 1781)
Traupis env. (1), 19 06 2015, 1 spec., on a pile of logs, 09 08 2015, 1 spec., inside house, attracted by light.

Saperda perforata (Pallas, 1773)
Traupis env. (1), 04 06 2013, 1 spec., found on a deciduous tree branch.

CHRYSMELIDAE

Donacia crassipes Fabricius, 1775
Lake Rūžas, 29 08 2015, 1 spec., on a leaf of yellow water-lily (Nuphar lutea).

Discussion

Data about 18 beetle species belonging to 11 families is presented. Majority of material was collected in Anykščiai district. Four species are included into the Red Book of Lithuania, all of them are related with an old forest (Rašomavičius, 2007). Forest with old trees is extremely important for Prionus coriarius and Peltis grossa because both species larvae are living in old rotting wood (Pileckis, Monsevičius, 1995, 1997). Protaetia lugubris develops in hollow trees, therefore, they can be found more often outside forest. According to Oleksa et al. (2006), forest might not be necessary at all and species can develop successfully even in agricultural landscape if there are enough of appropriate hollow trees, like avenues along road. Although another species, Carabus coriaceus is a carnivorous predator and does not develop in wood, it also usually occurs in a forest (Lindroth, 1992).

Carabus coriaceus is considered as a forest species (Lindroth, 1992) but current observation of this species was done in urban area. This can be explained with two factors – at approximately 1 km distance there is Panemunės šilas forest and at approximately 4 km distance – Jiesia landscape preserve, which is nearest known locality of this species (Vaivilavičius, 2008).

Sepedophilus wankowiczi – new species for Lithuanian fauna – is very often confused with S. bipustulatus, because these two species are very similar in both size and coloration, therefore all specimens’ terminalia must be examined carefully (Yamamoto, 2013).

Trogoderma angustum for the first time was recorded in Lithuania in 1990, in Kaunas town quarantine station (Ferenca et al., 2006), more specimens were found in 1999-2000 in Ignalina city (Šablevičius, 2004). This species has spread in Lithuania because of developing of international tourism and trade (Tamutis et al., 2011). This is the first record of T. angustum in Vilnius city.

Meloe brevicollis is one of four Meloe species that occur in Lithuania. Whole Meloe genus was selected by Lithuanian Entomological Society as “The insect of the Year 2009” to obtain more data on these species. Twenty-two individuals of M. brevicollis were observed combining data from both Pileckis & Monsevičius (1997) and the ones obtained during the campaign, yet none was recorded in Anykščiai district (Liekis, 2009). Hence, this is the first record of M. brevicollis in Anykščiai district.
Acknowledgements

I am very grateful to Dr. M. Schülke for noticing and reexamining mistakenly identified *Sepedophilus* specimen and I also would like to thank D. Sirvydis, K. and S. Obelevičius for sharing their entomological findings with me.

References


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Obelevičius Ž. 2015. Rare species of beetles (Coleoptera) found in Žaliosios pievų botanical-zoological preserve. *New and Rare for Lithuania Insect Species* 27: 39–46.


Tamutis V. 2012. New and rare (insufficiently known) beetle species found in the litter of coniferous and mixed forests in Lithuania. *New and Rare for Lithuania Insect Species* 24: 6–18.


Įdomūs vabalų (Coleoptera) rūšių radiniai Lietuvoje 2012-2016 metais

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Santrauka


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