

NEW RECORDS OF RARE FALSE BLISTER BEETLE (COLEOPTERA: OEDEMERIDAE) SPECIES IN LITHUANIA

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Introduction

The knowledge on Lithuanian Oedemeridae is still poor. There is no published source devoted to this family in Lithuania. The brief faunistic review of Lithuanian Oedemeridae was presented in two monographs on Lithuanian beetles (Pileckis, 1976; Pileckis & Monsevičius, 1997). Among 14 species listed in those monographs, 10 species are categorized as rare or very rare in Lithuania. The faunistic data of single records of some Oedemeridae species is scattered in various other publications (Mazurowa & Mazur, 1939; Pileckis & Monsevičius, 1982; Šablevičius, 2000, 2004; Gliaudys, 2001; Inokaitis, 2004; Žiogas & Zolubas, 2005; Ferenc, 2006; Ivinskis *et al.*, 2009; Ostrauskas & Ferenc, 2010;). The new species, *Oedemera subrobusta* (Nakane, 1954) has been recently disclosed for Lithuania (Barševskis, 2008). All together 15 species of false blister beetles are listed in the Catalogue of Lithuanian beetles (Insecta, Coleoptera). Furthermore, 6 species are listed as expected (Tamutis *et al.*, 2011).

The aim of this paper is to present new faunistic data on nine insufficiently known in Lithuania false blister beetle species and a first record of *Oedemera croceicollis* (Gyllenhal, 1827), marked with an asterisk (*).

Material and methods

The majority of the present data is based on the material collected by authors of this report: Romas Ferenc (R.F.), Vytautas Tamutis (V.T.) and Rimvydas Kinduris (R.K.). Some specimens were collected by Povilas Ivinskis (P.I.), Agnė Jastramskaitė (A.J.), Saulius Karalius (S.K.), Giedrius Švitra (G.Š.) and Vytautas Uselis (V.U.).

All the specimens, except a part of *Oedemera femorata* Scop. observed in Mažeikiai and Skuodas districts by R. Kinduris, and specimens of *Oedemera croceicollis* Gyll. are deposited in the collection of Kaunas T. Ivanauskas Zoological museum. Species *O. croceicollis* Gyll. was recognized from a photo made by R. Kinduris.

The key of Z. Kaszab (1969) was used for the identification of the specimens. Classification of the Oedemeridae family, synonymy of species is followed according to a Catalogue of Palaearctic Coleoptera (Löbl, 2008).

Some abbreviations were used in the text: R - Reserve, spec. – specimen. Collectors are noted using their initials in the brackets.

List of localities

Birštonas district	Škėvonys	54°36'52.8"N, 23°58'16.6"E;
Druskininkai district	Gerdašiai Entomological R.	53°56'43.6"N, 23°52'50.2"E;
Joniškis district	Žagarė	56°21'56.5"N, 23°15'38.3"E.
Jurbarkas district	Kalviai	55°04'21.9"N, 23°21'17.6"E;
Kaišiadorys district	Kaišiadorys env	54°50' N, 24°25'E;
	Šešuva Botanical R.	54°56'18.6"N, 24°14'53.2"E;
Kaunas district	Kaunas t.	55°07'02.3"N, 22°25'10.3"E;
	Braziūkai	54°54'14.4"N, 23°28'40.0"E;
	Dubravos Miškas f. (1)	54°49'07.1"N, 24°05'57.8"E;
	Dubravos Miškas f. (2)	54°50'09.2"N, 24°03'07.3"E;
	Freda	54°52'02.1"N, 23°55'22.9"E;
	Girininkai II	54°51'01.0"N, 23°40'25.5"E;
	Jiesia Landscape R. (1)	54°48'55.1"N, 23°54'54.5"E;
	Jiesia Landscape R. (2)	54°49'00.2"N, 23°55'02.4"E;
	Jiesia Landscape R. (3)	54°51'12.7"N, 23°56'14.0"E;
	Jiesia Landscape R. (4)	54°51'25.5"N, 23°56'09.5"E;
	Jiesia Landscape R. (5)	54°51'12.9"N, 23°56'20.1"E;
	Kačerginė	54°55'11.2"N, 23°43'02.0"E;
	Margininikai env.	54°48'04.9"N, 24°03'29.6"E;
	Netoniai	54°56'23.1"N, 23°43'31.1"E;
	Noreikiškės (1)	54°53'49.0"N, 23°50'15.2"E;
	Noreikiškės (2)	54°53'18.2"N, 23°49'52.4"E;
	Pavejuonis Entomological R.	54°59'54.0"N, 23°43'41.3"E;
	Ringaudai env.	54°53'N, 23°49'E;
	Ringovė Entomological R.	55°03'00.6"N, 23°31'19.7"E;
	Rokai military ground	54°47'19.1"N, 23°55'01.7"E;
	Rupiniai	54°56'42.5"N, 23°36'56.0"E;
	Vilkija	55°02'20.3"N, 23°34'36.3"E;
Kazlų Rūda municipality	Jūrė env.	54°46'58.1"N, 23°35'39.8"E;
	Kajackaraistis	54°48'37.3"N, 23°35'45.7"E;
	Marackų Miškas f.	54°46'58.1"N, 23°35'39.8"E;
Kelmė district	Dausino lake env. (1)	55°36'35.7"N, 22°43'17.3"E;
	Dausino lake env. (2)	55°36'38.5"N, 22°43'21.5"E;
Klaipėda municipality	Smiltynė	55°42'N, 21°06'E;
Mažeikiai district	Dautarų Miškas f.	56°22'36.1"N, 21°59'51.7"E;
	Lėlaičiai (1)	56°14'43.5"N, 22°27'43.5"E;
	Lėlaičiai (2)	56°13'59.7"N, 22°27'34.4"E;
	Maigų Miškas f. (1)	56°16'56.7"N, 22°29'17.3"E;
	Maigų Miškas f. (2)	56°16'45.4"N, 22°29'27.0"E;
	Mažeikių Miškas f.	56°16'34.1"N, 22°26'23.3"E;
	Medžialenkė	56°13'11.4"N, 22°24'33.4"E;
	Meižiai lake env. (1)	56°17'44.1"N, 22°33'21.8"E;
	Meižiai lake env. (2)	56°17'44.2"N, 22°33'21.9"E;

	Repšių Miškas f.	56°18'29.9"N, 22°08'05.4"E;
	Sedos giria f. (1)	56°13'05.4"N, 22°10'20.1"E;
	Sedos giria f. (2)	56°13'07.2"N, 22°07'24.1"E;
	Skleipiai gravel pit	56°10'17.1"N, 22°31'41.9"E;
	Tulniškių Miškas f.	56°21'41.2"N, 22°15'42.6"E;
	Venta river slope	56°17'54.8"N, 22°19'07.5"E;
	Vieکشniai (1)	56°14'18.3"N, 22°29'28.8"E;
	Vieکشniai (2)	56°14'43.5"N, 22°28'45.0"E;
	Voveriai	56°16'58.4"N, 22°20'19.1"E;
Neringa municipality	Juodkrantė	55°32'46.7"N, 21°07'15.2"E;
Pakruojis municipality	Pakruojis	55°58'52.7"N, 23°51'10.6"E;
Palanga municipality	Šventoji	56°01'49.1"N, 21°04'10.1"E;
	Šventoji env.	56°00'27.8"N, 21°04'26.2"E;
Skuodas district	Margininkai pond env.	56°18'05.3"N, 21°59'32.2"E;
Šakiai district	Juškinės Miškas f.	55°01'13.4"N, 23°27'43.7"E;
	Novaraistis	54°57'25.7"N, 23°24'59.7"E;
	Tervydoniai	55°01'42.2"N, 23°26'37.1"E;
Šiauliai district	Agailių Miškas f.	56°06'N, 22°57'E;
Šilutė district	Kniaupa bay env.	55°20'30.7"N, 21°11'42.5"E;
Tauragė district	Viešvilė Strict Nature R. (1)	55°10'46.1"N, 22°27'36.4"E;
	Viešvilė Strict Nature R. (2)	55°07'03.0"N, 22°25'18.7"E;
	Viešvilė Strict Nature R. (3)	55°07'55.7"N, 22°25'10.6"E;
	Viešvilė Strict Nature R. (4)	55°08'20.1"N, 22°29'45.4"E;
Varėna district	Puvočiai	54°06'N, 24°18'E;

List of species

Ditylus laevis (Fabricius, 1787)

Viešvilė Nat. R. (3), 05–12 06 2001, 1♀ (V.U.).

Notes. This record is the first actual data on distribution of this species in Lithuania. Species is distributed in Northern and Central Europe, Eastern Siberia and Japan (Löbl, 2008) It is a very rare saproxylobiontic species, occurs in the dead waterlogged wood of coniferous trees. Previously there was only one report known, without specification of the exact location (Pileckis & Monsevičius, 1997).

Anogcodes melanurus (Fabricius, 1787), syn: *ustulatus* (Fabricius, 1787)

Agailių Miškas f., 23 07 1990, 2♀ (R.F.); Dubravos Miškas f. (2), 17 07 1998, 1♀ (R.F.); Freda, 02 07 1981, 1♀; 13 06 1984, 2♂ (R.F.); Gerdašiai Entomological R., 12 07 2000, 1♂1♀ (R.F.); Girininkai II, 27 07 1996, 1♂1♀ (V.T.); Jiesia Landscape R. (5), 24 06 2005, 1♀ (R.F.); Jūrė env., 06 02 2002, 1♂ (R.F.); Maigų Miškas f. (1), 28 06 2009, 1♀; 11 07 2010, 1♀; 29 07 2012, 1♂ (R.K.); Meižiai lake env. (1), 14 06 2013, 1♂1♀ (R.K.); Noreikiškės (1), 11 07 1998, 1♂ (V.T.); 12 07 2000, 1♂1♀ (P.I.); Pakruojis, 24 06 1995, 1♀ (S.K.); Puvočiai, 02 07 1978, 1♀ (G.Š.); Sedos giria f. (1), 18 06 2012, 2♀ (R.K.); Tulniškių Miškas f., 30 06 2009, 1♂ (R.K.); Žagarė, 13 07 2011, 2♀ (R.K.).

Notes. This species was erroneously synonymised with *Anogcodes ustulatus* (Scopoli, 1763) in the catalogue of Lithuanian beetles (Tamutis *et al.*, 2011). Earlier this

species was reported from three Lithuanian districts: Jonava, Jurbarkas and Trakai (Pileckis, 1960, 1968; Inokaitis, 2004). Species widely distributed in Europe (except Scandinavian countries and Denmark) and Asia East to China (Löbl, 2008; Silfverberg, 2010). Adults usually live on blooming plants (*Cornus*, *Spirea*, *Cirsium*) and different Umbel (Apiaceae) plants.

***Anogcodes rufiventris* (Scopoli, 1763)**

Juodkrantė, 02 07 2005, 1♂ (R.F.); Noreikiškės (1), 06 06 1994, 2♀; 19 07 1996, 1♀ (V.T.); Smiltynė, 25 06 1990, 3♂3♀ (S.K.); Šventoji, 07 07 2013, 1♂ (R.K.).

Notes. This European species is widely distributed in the region, it occurs from Sweden and Karelia in the north to northern Italy and Greece in the south. It is insufficiently known in Lithuania, earlier recorded from the same districts (Inokaitis, 2004; Šablevičius, 2004). Larvae of this species develop in the damp trunks of coniferous trees infected by rot fungus. Larval development is two-year term (Ehnström & Axelsson, 2002). The adults are commonly found on various flowering shrubs and herbaceous plants.

***Anogcodes ustulatus* (Scopoli, 1763), syn.: *ferrugineus* (Schrank, 1776), *adustus* (Panzer, 1795)**

Dubravos Miškas f., 12 07 1989, 1♂, (R.F.); Freda, 16 06 1982, 1♀; 13 06 1984, 1♂1♀, (R.F.); Jiesia Landscape R. (3), 21 06 1981, 1♀, (R.F.); Jiesia Landscape R. (4), 15 06 2011, 1♀ (R.F.); Kaunas t., 09 05 2002, 1♀, (R.F.).

Notes. Only one actual record of this species was known before, also from Kaunas district (Inokaitis 2004), although it was earlier noted without definite data for central and south-western parts of Lithuania by Pileckis and Monsevičius (1997). It was erroneously synonymised with *A. ustulatus* (Fabricius, 1787). Generally this species is widely distributed in western Palearctic region, east far to West Siberia, Turkmenistan, but seems to be rare in northern parts. In the north, the distribution range of *A. ustulatus* (Scopoli, 1763) reaches southern Sweden (Lundberg & Gustafsson 1995), northern Poland (Burakowski *et al.* 1987), western Belarus (Alexandrovich *et al.* 1996) and Lithuania. It is still not found in Denmark and Latvia. The notification of this species for Estonia (Silfverberg, 2004, 2010) is probably erroneous, based on wrong interpretation of synonyms of the species. No specimens with geographical coordinates of *Anogcodes ferrugineus* (Schrank, 1776) are available in Estonia, but *Anogcodes ustulatus* (Scopoli, 1763), synonymised with *Anogcodes ustulatus* (Fabricius, 1787) is known from several localities (Anonymous, 2009). This data most likely belongs to *Anogcodes melanurus* (Fabricius, 1787) = *A. ustulatus* (Fabricius, 1787), which seems to be more widely distributed.

Larvae develop in rotten damp wood stumps, adults occur on herbaceous plants, shrubs and trees from April to July.

***Nacerdes melanura* (Linnaeus, 1758)**

Kniaupa bay env., 19 06 1990, 1♂ (S.K.).

Notes. This cosmopolitan species is widely distributed in Palaearctic, Afrotropical, Australian, Nearctic and Neotropical region (Löbl, 2008), as well as in Baltic countries (Silfverberg, 2010). Larvae of *N. melanura* develop in the damp wood of timbers and pilings in coastal areas, regularly submerged by tidal waves.

****Oedemera croceicollis* (Gyllenhal, 1827)**

Dausinas lake env. (1), 24 06 2012, 1♂; 19 06 2013, 17♂2♀ (R.K.).

Notes. The species is widespread in Central and Southern Europe including the

southern part of Fenoscandia, East Siberia, Kazakhstan. It is also known from adjacent countries: Estonia, Latvia, Poland (Löbl, 2008; Silfverberg, 2010), Kaliningrad region (Alekseev & Bukejs, 2011). Adults occur on various plants (*Phragmites*, *Carex*, *Ranunculus*, *Rubus*, *Sorbus*, *Viburnum*, *Valeriana*). This species was found on inflorescences on *Thalictrum lucidum* in Lithuania (Fig. 1).



Fig. 1. *Oedemera croceicollis*. Photo by R.Kinduris

***Oedemera femorata* (Scopoli, 1763)**

Braziūkai, 25 07 2009, 1♀ (V.T.); Dausinas lake env. (2), 19 06 13, 1♀; Dautarų Miškas f., 17 06 2013, 1♂; Drausgiris Miškas f., 13 06 2013, 2♂1♀ (R.F.); Girininkai II, 27 07 1996, 1♀ (V.T.); Jiesia Landscape R. (1), 31 05 2001, 1♀; Jiesia Landscape. R. (2), 27 06 2011, 1♂; Juškinė Miškas f., 30 06 2007, 1♂; Kačerginė 11 06 2002, 1♂; Kajackaraistis, 13 07 1985, 1♂; Lėlaičiai, 09 06 2013, 2♂1♀; Maigų Miškas f. (2), 28 06 2009, 1♀, 11 07 2010, 1♀, 29 07 2012, 1♂; Marackų Miškas f., 06 06 2002, 1♂1♀; Margininkai pond env., 20 07 2013, 1♀; Mažeikių Miškas f., 27 06 2013, 1♂; Medžialenkė, 20 06 2013, 1♂; Meižiai lake env. (2), 14 06 2013, 1♂; Netoniai, 17 06 2010, 1♀ (all R.F.); Noreikiškės (1), 11 07 1994, 1♀; 13 07 1996, 1♀ (V.T.); Novaraistis, 05 06 2000, 1♀; Pavejuonis Entomological R., 27 07 2000, 1♂1♀ (R.F.); Repšių Miškas f., 20 07 2013, 1♀ (R.K.); Ringaudai env., 13 07 1998, 1♀ (V.T.); 15 06 2004, 1♂1♀ (A.J.); Ringovė Entomological R., 07 06 1990, 2♂4♀; 04 07 1996, 3♂1♀; 29 06 2011, 1♂1♀; 31 07.2012, 1♂1♀ (R.F.); 02 07 1998, 1♀ (V.T.); Rokai Military ground, 03 06 2008, 1♂; Sedos giria f. (2), 23 06 2013, 1♂; Skleipiai gravel pit, 01 06 2013, 1♂; Šešuva Bot. R., 07 06 2011, 2♂1♀; Škėvonys, 29 06 2013, 1♂; Tervydoniai, 14 06 1997, 1♂; Venta river slope, 22 06 2013, 1♂; Viešniai, 09 06 2013, 2♀; Viešvilė Nat. R. (1), 18 07 2006, 1♀ 17 07 2007, 1♂; Viešvilė Nat. R. (2), 15 06 2008, 1♀; Viešvilė Nat. R. (3), 20 07 1999, 1♀ (R.F.);

Viešvilė Nat. R. (4), 29 07 2008, 1♂1♀ (V.T.); Vilkija, 18 07 2009 1♂; Vištytgiris Miškas f., 31 05 2002, 1♀; Voveriai 01 07 2011, 1♂ (R.F.).

Notes. Euro-Siberian species, distributed in Europe (except Great Britain and Norway) and Asia East to the Kazakhstan, Turkmenistan and West Siberia (Löbl, 2008). Adult beetles are found in open habitats: grasslands, forest sites on various flowering plants.

***Oedemera flavipes* (Fabricius, 1792)**

Kalviai, 15 06 2001, 1♂1♀ (R.F.); Kačerginė, 07 06 2012, 2♂2♀ (V.T.); Netoniai, 22 05 2002, 1♂ (R.F.); Noreikiškės (1), 15 07 2000, 1♂ (V.T.).

Notes. This species is distributed in Central and Southern Europe, also known in Armenia, Israel, Lebanon, Syria, Turkey (Burakowski et al., 1987; Löbl, 2008). This thermophilic species lives in dry unshaded meadows, river slopes overgrown with herbaceous vegetation.

***Oedemera lurida* (Marsham, 1802)**

Kaišiadorys env., 07 06 1995, 1♂; Margininkai, 14 06 1993, 1♂1♀; Noreikiškės, 19 06 1995, 1♀; Noreikiškės (2), 15 07 1997, 1♂ (V.T.); Ringaudai, 15 06 2004, 1♂1♀ (A.J.).

Notes. This species is widely distributed in Europe and Central Asia: Iran, Syria, Turkmenistan and Turkey. (Löbl, 2008). Larvae feed on the root collar and lower part of the stem of perennial plant species, particularly *Senecio* and *Centaurea*. Larvae overwinter in the root collar.

***Oedemera podagrariae* (Linnaeus, 1767)**

Ringovė Entomological R., 06 06 1990, 1♂; 07 06 1990, 2♀; 04 07 1996, 1♂2♀; 03 07 1998, 1♂; 19 07 1999, 1♀; 31 07 2009, 1♂ (R.F.); Rupiniai, 28 06 2012, 1♀ (V.T.); Šventoji env., 24 06 2010, 1♂; Tervydoniai, 23 06 2013, 1♀ (R.F.);

Notes. This species is distributed in the Central and Southern parts of Europe, Asia Minor and the Caucasus, Iran and Turkey (Löbl, 2008). It occurs in luminous forests, dry meadows, field margins and fallow. Adults appear in June and are observed till September on flowers of different plants, grasses and cereal spikes.

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Nauji duomenys apie retas laibavabalių (Coleoptera: Oedemeridae) rūšis Lietuvoje

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Santrauka

Pateikiama informacija apie 9 mažai ištirtų laibavabalių rūšių ir vienos naujos Lietuvos faunai laibavabalių rūšies (*Oedemera croceicollis*) naujas radvietes. Kiekvienai rūšiai nurodomos stebėjimo data ir individų skaičius. Trumpai aptariami kiekvienos rūšies ekologiniai aspektai ir paplitimas.

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