

NEW DATA ON LITHUANIAN BEETLE (COLEOPTERA) FAUNA

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Introduction

The most important information on Lithuanian Coleoptera was summarized and published in the monograph „Lietuvos fauna. Vabalai“ (Pileckis & Monsevičius, 1995, 1997). This monograph presents the list of more than 2850 Coleoptera species. However, the latest records (Barševskis, 2001; Ferenca, 2003, 2004; Ferenca *et al.*, 2002, 2006, 2007; Inokaitis, 2004; Monsevičius & Pankevičius, 2001; Šablevičius, 2003, 2004; Šablevičius & Ferenca, 1995; Tamutis, 1996, 2001a, 2001b, 2003, 2004; Tamutis & Ferenca, 2006) contain information on more than 450 species of Lithuanian Coleoptera.

This paper presents information on 24 new Coleoptera species for Lithuania. Two species (*Chlaenius spoliatus* and *Harpalus melancholicus*) should be removed from the list of Lithuanian Coleoptera, as misidentified.

Material and Methods

The present data based on the material collected by the authors of this report during field research. Some of the material was deposited in the collection of Kaunas T. Ivanauskas Zoological Museum and personal collections of Lithuanian coleopterologists.

The biggest part of species was collected by the authors: Vytautas Tamutis (V. T.), Romas Ferenca (R. F.), Povilas Ivinskis (P. I.) and Jolanta Rimšaitė (J. R.). Some specimens were collected by Teisutis Ašmenavičius (T. A.), Aleksandras Meržijevskis (A. M.), Alfonsas Palionis (A. P.) Rimantas Pankevičius (R. P.), Simonas Pileckis (S. P.), Gintaras Slavinskas (G. S.), Bronius Šablevičius (B. Š.) and Audronė Unikauskaitė (A. U.).

The material was collected using standard entomological methods: sweeping, pitfall traps, pheromone trap for *Ips typhographus*, hand-searching, sampling under the bark of old logs and tree stumps, leaf litter as well as in moss on trees.

Commonly accepted nomenclature (Silfverberg, 2004) was used in this paper.

Information on localities:

Alytus distr.	Nemuno Kilpos Regional Park	54°31'49,2"N, 24°04'37"E
Curronian Spit (1)		55°39'49,2"N, 21°07'20,2"E
Curronian Spit (2)		55°39'52,2" 'N, 21°07'18,2"E

Curronian Spit (3)	Juodkrantė env.	55°32'46,7"N, 21°07'15,2"E
Joniškis distr.	Krampiai env.	56°13'42"N, 23°31'07,2"E
	Satkūnų Miškas f.	
Jurbarkas distr.	Smaladaržis env.	55°07'06"N, 22°25'47"E
Kaunas distr.	Babtai – Varluva biosphere polygon	55°01'38,5"N, 23°52'50"E
	Braziūkai env. (1)	54°59'06,6"N, 23°28'47"E
	Braziūkai env. (2)	54°59'07,3"N, 23°28'47,5"E
	Dubravos Miškas f.	54°50'38,5"N, 24°02'53,7"E
	Jiesia landscape preserve (1)	54°51'12,9"N, 23°56'20,8"E
	Jiesia landscape preserve (2)	54°51'12,3"N, 23°56'18,4"E
	Jiesia landscape preserve (3)	54°51'00,6"N, 23°26'13,4"E
	Jiesia landscape preserve (4)	54°51'10,2" 'N, 23°56'20"E
	Jiesia landscape preserve (5)	
	Kačerginė env.	
	Kamšos Miškas f.	
	Margininkai env.	54°50'46,8"N, 24°02'48"E
	Nevėžis landscape preserve	54°56'41,4"N, 23°47'38"E
	Noreikiškės env. (1)	54°56'26,4"N, 23°50'22"E
	Noreikiškės env. (2)	54°56'25,4"N, 23°50'22,2"E
	Rupiniai env.	54°56'41,4"N, 23°37'11"E
Kaunas t.	Kaunas env.	
	Panemunė Šilas Park	
Kėdainiai distr.	Saviečiai env.	55°10'15,6"N, 24°00'34"E
Kelmė distr.	Glumbotiškė env.,	55°47'24"N, 23°03'09"E
Kupiškis distr.	Visetiškės env.	
	Vizgiūnai gravel quarry	
Marijampolė distr.	Jūrė env.	
Plungė distr.	Liepijos Miškas f.	
	Paplattelė env.	56°02'51,6"N, 21°53'22"E
Šakiai distr.	Juškinės Miškas f.	55°00'49,4"N, 23°27'07,4"E
	Tervydoniai tsh.	55°01'40,7"N, 23°26'57"E
Šiauliai distr.	Dzidai env.	55°55'06,6"N, 23°09'09,6"E
Šilalė distr.	Medvėgalis env.	55°37'43,8"N, 22°23'29" 'E
Švenčioniai distr.	Purvyno Pelkė bog	55°01'25,8"N, 25°37'32"E
Tauragė distr.	Viešvilė State Strict Nature Reserve	55°09'33,3"N, 22°28'31"E
		55°10'46,1"N, 22°27'36,4"E
Ukmergė t.	Ukmergė env	

Results and discussion

DYTISCIDAE

Agabus unguicularis (Thomson, 1867)

Dubravos Miškas f., 12 07 2007, 4 spec. (R.F.), in eutrophical puddles.

Euro-siberian species, widely distributed in Fennoscandian and Baltic countries, except Norway (Silfverberg, 2004), also known from Poland (Galewski, 1971) and

Belarus (Alexandrovitch *et al.*, 1996). Beetles occur mainly in small eutrophical puddles, occasionally live in big water stands (Galewski, 1971; Burakowski *et al.*, 1974; Barševskis *et al.*, 2005).

***Coelambus novemlineatus* (Stephens, 1829)**

Viešvilė Nat. R., 21 08 2007, 2 spec., to the light, 22 08 2007, 1 spec. (R.F.), forest runlet.

Beetles of this species are widely distributed in Fennoscandia, also known in Estonia (Silfverberg, 2004), mainly occur in big water stands, ponds and lakes with sandy, gravelly or peaty edges (Galewski, 1971).

CARABIDAE

***Agonum marginatum* (Linnaeus, 1758).**

(=*Chlaenius spoliatus*: Pileckis & Monsevičius, 1995, misidentification)

The data about this species was published in 1995 (Pileckis & Monsevičius, 1995). Examination of the material showed that it was misidentification, this individual was newly determined as *Agonum marginatum* (Linnaeus, 1758). So the species *Ch. spoliatus* should be removed from the list of beetles of Lithuania. This species is distributed in the Palearctic region, but it was not recorded in Baltic and Fennoscandian countries. There were records of this species from southern part of Poland (Burakowski *et al.*, 1974).

***Badister dorsiger* (Duftschmid, 1812)**

Babtai – Varluva biosphere polygon, 20 07 2007, 1 spec. (V.T.), forest's swamp litter.

This stenotopic species is distributed in the West Palearctic region, towards the East ranging Kazakhstan and West Siberia. Records of this species are known from Denmark and Latvia (Barševskis, 2003; Silfverberg, 2004), as well as from Belarus (Alexandrovitch *et al.*, 1996). The habitats of this species are overgrown water edges, swamps, floodplain forests, moist meadows, or lowlands (Hürka, 1996). Beetles of this species are rare in all mentioned countries; species is included into the Danish Red Data Book as vulnerable (Danish Red Data Book, 1997).

***Bradycellus csikii* Laczó, 1912**

Braziūkai env. (2), 10 09 2006, 4 spec., 03 12 2007, 1 spec. (V.T.), wet *Calluna* overgrowth.

European, Transcaucasian species, recorded from Finland, Sweden, Denmark (Silfverberg, 2004), Belarus (Alexandrovitch *et al.*, 1996) and Poland (Burakowski *et al.*, 1974). Record from Lithuania is new for the Baltic countries. There are different data about habitats of this species: according to A. Barševskis (2003), this species is xerophilic, while K. Hürka (1996) states that this species lives in unshaded moist habitats: meadows, wastelands, elevated, overgrown water margins. Our data show that beetles of this species prefer open area of wet *Calluna vulgaris* overgrowth with impurity of *Gramineae* plants.

***Harpalus calceatus* (Duftschmid, 1812)**

(=*Harpalus melancholicus*: Tamutis & Ferenca, 2006, misidentification)

The data about this species in Lithuania was published in 2006 (Tamutis & Ferenca, 2006). Re-examination of the material showed that it was misidentification, these individuals newly determined as *Harpalus calceatus* (Duftschmid, 1812). So the species *Harpalus melancholicus* should be removed from the list of beetles of Lithuania. The residence of this species in the territory of Lithuania is quite reliable,

because it was recorded from Sweden and Denmark (Silfverberg, 2004), also from different sites of Poland (Burakowski *et al.*, 1974).

***Harpalus progrediens* Schauberger, 1922**

(=*H. xanthopus* ssp. *winkleri*: Gaidienė & Ferenca, 1988, misidentification)

Jiesia pr. (5), 15 05 1982, 1 spec., 04 08 1982, 1 spec., 21 08 1982, 1 spec., 04 09 1982, 1 spec., 22 07 1984, 1 spec. (Gaidienė & Ferenca, 1988); 15 08 1985, 1 spec., 26 05 1985, 1 spec., 15 05 1988, 1 spec. (R.F.); Kamšos Miškas f., 03 05 1938, 1 spec. (A.P.); Ukmergė env., 26 07 1979, 1 spec. (A.U.); Liepijos Miškas f., 26 08 1995, 1 spec., (B.Š.); Kaunas env. 08 1956, 1 spec. (S.P.); Jūrė env., 14 07 1985, 2 spec. (R.F.); Satkūnų Miškas f., 15 08 2006, 1 spec. (T.A.); Rupiniai env., 31 03 2007, 1 spec. (V.T.), wet meadow; Nevėžis pr., 14 08 2007, 1 spec. (V.T.); Jiesia pr. (1), 26 05 2005, 1 spec., (A.M.).

The data about this species in Lithuania was published in 1988 (Gaidienė & Ferenca, 1988), but specimens were misidentified as *H. xanthopus* Gemminger & Harold, 1868 ssp. *winkleri* Schauberger, 1923.

This species is distributed in Europe and West Siberia. Beetles are indifferent to shade, found in moderately moist habitats: meadows near streams, floodplain forests, elevated margins of water with vegetation (Hůrka, 1996). This species was recorded in Estonia and Latvia (Barševskis, 2003; Silfverberg, 2004), Belarus (Alexandrovitch *et al.*, 1996), widely distributed in Poland (Burakowski *et al.*, 1974).

***Harpalus xanthopus winkleri* Schauberger, 1923**

Kačerginė env., 03 04 1983, 1 spec., 30 05 1988, 1 spec. (G.S.); Panemunės Šilas Park, 09 06 1994, 1 spec. (A.M.); Vizgiūnai gravel quarry, 11 05 1991, 1 spec. (R.P.); Visetiškės env., 08 06 1996, 1 spec. (R.P.); Dubravos Miškas f., 17 05 1996, 1 spec., 02 05 1999, 1 spec. (P.Z.), pheromone trap for *Ips typhographus*; Dzidai env., 04 08 2002, 1 spec. (V.T.), dry meadow; Medvėgalis env., 07 09 2005, 7 spec. (P.I.); Braziūkai env. (1), 06 06 2006, 1 spec., 09 07 2006, 1 spec. (V.T.), dry meadows.

We suppose that earlier this species was included in the list of Lithuanian beetles (Pileckis & Monsevičius, 1995) by mistake on the base of the misidentified material of *H. progrediens* (Gaidienė & Ferenca 1988).

Beetles of this species prefer dry habitats, indifferent to shade: open forests, meadows (Hůrka, 1996), widely distributed in Fennoscandian and Baltic countries, in Belarus (Alexandrovitch *et al.*, 1996) and Poland (Burakowski *et al.*, 1974).

***Ophonus schaubergerianus* (Puel, 1937)**

Margininkai, 30 05 1992, 1 spec. (V.T.), in a meadow.

Euroanatolian species living in dry to moderate moist, unshaded habitats: meadows, fields, gardens, wastelands (Hůrka, 1996). Recorded from Finland and Latvia (Barševskis, 2003; Silfverberg, 2004).

***Paradromius longiceps* (Dejean, 1826)**

Noreikiškės env. (1), 23 05 1996, 1 spec. (V.T.), pond reed stand.

Euro - Caucasian species, widely distributed in Fennoscandian and Baltic countries, except Norway and Karelia (Silfverberg, 2004), known from Belarus (Alexandrovitch *et al.*, 1996) and Poland (Burakowski *et al.*, 1974). Imagos are hydrophilic, occurring in standing water bodies.

***Philorhizus notatus* (Stephens, 1827)**

Noreikiškės env. (2), 23 08 1995, 1 spec. (V.T.), meadow; Margininkai env., 21 04 1996, 1 spec. (V.T.), *Urtica* swards.

Species is widely distributed in Europe, also known from Asia Minor, Middle East, Mountain of Caucasus, Central Asia (Burakowski *et al.*, 1974; Hůrka, 1996; Silfverberg, 2004; Čurčić *et al.*, 2007). Beetles occur in moderate shaded habitats: edges of forests, quarries with vegetation, forest clearings, or shrubs formations (Hůrka, 1996).

HYDROPHILIDAE

***Cercyon atricapillus* Marsham, 1802**

Tervydoniai tsh., 24 09 2006, 1 spec. (R.F.), near cow-house.

Cosmopolitan species, widely distributed in Palearctic region (Burakowski *et al.*, 1976), as well as in Fennoscandian and Baltic countries (Silfverberg, 2004), living usually in the dung of cow and detritus (Burakowski *et al.*, 1976).

***C. sternalis* Sharp, 1918 11**

Jiesia pr. (2), 02 06 2000, 1 spec. (R.F.), in detritus,

This species is known from Europe and the South of West Siberia (Kireichuk & Shatrovskij, 2008), Finland, Sweden, Denmark, Latvia (Silfverberg, 2004), Poland (Burakowski *et al.*, 1976) and Belarus (Alexandrovitch *et al.*, 1996). The beetles occur in detritus in wet habitats (Burakowski *et al.*, 1976; Kireichuk & Shatrovskij, 2008).

LEIODIDAE

***Nargus anisotomoides* (Spence, 1815)**

Paplatelė env., 28 08 – 27 09 2007, 1 spec. (P.I. & J.R.), in a pitfall trap.

This species is widely distributed in Europe except northern regions: Finland, Norway, northern Russian (Silfverberg, 2004). It is not known from not Latvia nor Belarus (Burakowski *et al.*, 1978). This is a typical litter-dwelling beetle living in forests as well as in the burrows of rodents (Szymczakowski, 1961; Burakowski *et al.*, 1978).

***N. velox* (Spence, 1815)**

Krampiai env., 15–30 08 2007, 1 spec. (T.A.), in the lodge of beaver.

Species is known from Europe, Madeira Islands and Asia Minor (Burakowski *et al.*, 1978), widely distributed in Fennoscandian countries except Norway (Silfverberg, 2004), Estonia and Belarus (Alexandrovitch *et al.*, 1996). Imagos occur in the burrows of fox, badger, mole, rabbit and in the nests of birds (Szymczakowski, 1961; Burakowski *et al.*, 1978).

STAPHYLINIDAE

***Ischnosoma longicorne* (Mäklin, 1847)**

Paplatelė env., 07–28 08 2007, 1 spec. (P.I. & J.R.), in a pitfall trap.

This species is widely distributed in Europe as well in Fennoscandian and Baltic countries (Silfverberg, 2004). Beetles of this genus occur mainly in the forest litter, in the moss (Pileckis & Monsevičius, 1995).

***Ocypus olens* (Müller, 1764)**

Curronian Spit (1), 17 06 2005, 1 spec., 09 09 2005, 3 spec., 19 10 2005, 6 spec. (P.I.), in a pitfall trap; Curronian Spit (2), 09 09 2008, 2 spec. (R.F.).

This species is distributed in Europe except Eastern regions, Northern Africa, Canary and Azores Islands (Szujecski, 1980), rare in Northern regions, known from Sweden, Denmark, Estonia (Silfverberg, 2004). This is a typical predator beetle, preying mainly in the ground of deciduous forests, gardens, and parks (Szujecski, 1980).

***Stenus kiesenwetteri* Rosenhauer, 1856**

Smaladaržis env., 15 04 2008, 2 spec. (V.T.), in the leaf litter on the bank of the Viešvilė river.

This species is known from Central and Northern parts of Europe (Szujecski, 1961;

Burakowski *et al.*, 1979; Silfverberg, 2004), from Belarus (Derunkov, 2004). Our record is the first in the Baltic countries. Mainly occurs in peat bogs (Szujecki, 1961; Burakowski *et al.*, 1979; Derunkov, 2004). Our observations show that it also occurs in wet places near water bodies.

***Tachyporus tersus* Erichson, 1840**

Saviečiai env., 30 04 2004, 1 spec. (P.I.)

This species is widely distributed in Europe, Fennoscandian and Baltic countries, Belarus (Alexandrovitch *et al.*, 1996; Silfverberg, 2004;). It is a ground dwelling beetle occurring in a forest's litter.

***Zyras funestus* (Gravenhorst, 1806)**

Glumbotiškė env., 10 03 2008, 4 spec. (V.T.), mixed forest, in the nest of *Lasius fuliginosus*; Nemuno Kilpos Regional Park, 25 04 2008, 1 spec. (R.F.), deciduous forest; Purvyno Pelkė bog, 13–24 08 2007, 1 spec. (P.I. & J.R.), in a pitfall trap.

This species is widely distributed in Fennoscandian and Baltic countries (Silfverberg, 2004), known from adjacent countries, such as Belarus (Alexandrovitch *et al.*, 1996) and Poland (Staniec, 2006). *Z. funestus* is associated with ants and occurs usually in the nests of *Lasius fuliginosus* (Köhler, 2003–2008).

BUPRESTIDAE

***Phaenops formaneki* Jacobson, 1913**

Juškinės Miškas f., 12 07 2008, 1 spec. (R.F.), under the bark of a dead pine,

The species develops in dying branches of *Pinus sylvestris*, *P. nigra* and *Picea abies* (Ehnström & Axelsson, 2002). Life cycle continues for 1–2 years. *Ph. formaneki*, in contrary to *Ph. cyanea*, develops under the bark of thin branches (Freude *et al.*, 1979). This species is distributed in Northern Europe: Finland, Sweden, Northwestern Russia (Silfverberg, 2004) and in Central and Southern Europe: Austria, Belarus, the Czech Republic, Germany, Poland, Bulgaria, Croatia, French, Italy, and Macedonia (Kubán, 2007).

CRYPTOPHAGIDAE

***Cryptophagus cellaris* (Scopoli, 1763) 22**

Purvyno Pelkė bog, 23 05–01 06 2007, 23 spec., 01–10 06 2007, 9 spec., 10–22 06 2007, 8 spec., 22 06–03 07 2007, 1 spec., 03–17 07 2007, 1 spec., 03–17 09 2007, 1 spec. (P.I. & J.R.), in pitfall traps.

Beetles develop in soil under the rotten offal of plants in rotten straw (Pileckis & Monsevičius, 1997). This synanthropic species is widely distributed in Europe (Silfverberg, 2004).

MELANDRYIDAE

***Phryganophilus auritus* Motshulsky, 1860**

Jiesia pr. (3), 11 06 1990, 1 spec. (R.F.), on the rotten trunk of an oak tree.

This Euro-Siberian species is the relict of primeval forests, rare or very rare throughout the whole distribution range. This species was not recorded from Fennoscandian countries, but is known from Estonia (Silfverberg, 2004), Poland (Burakowski *et al.*, 1987), Belarus (Alexandrovitch *et al.*, 1996). It is included into the Estonian Red Data Book as indeterminate species (Estonian Red Data Book, 1998). Beetles occur in the rotten wood of *Quercus*, *Ulmus* and *Fagus* trees (Burakowski *et al.*, 1987).

SALPINGIDAE***Lissodema cursor* (Gyllenhal, 1813)**

Jiesia pr. (4), 12 06 2005, 1 spec. (A.M.).

European species, widely distributed in Fennoscandian countries except Norway (Silfverberg, 2004). It is known from Poland (Burakowski *et al.*, 1987). Current record of this species is the first in the Baltic countries. This species lives under the bark of deciduous trees in the burrows of larvae of *Dryocoetes alni* Georg., *Pogonocherus hispidulus* L., or *Grammoptera ruficornis* F. (Burakowski *et al.*, 1987).

CURCULIONIDAE***Bagous frit* (Herbst, 1795)**

Purvyno Pelkė bog, 23 05–01 06 2007, 6 spec., 01–10 06 2007, 1 spec., 10–22 06 2007, 8 spec., 22 06–03 07 2007, 1 spec., 03–17 07 2007, 1 spec. (P.I. & J.R.), in pitfall traps.

Species is distributed in Northern and Central Europe including Great Britain (Silfverberg, 2004; Alonso-Zarazaga, 2007). Adults and larvae live in bogs, feed on *Menyanthes trifoliata* (Morris, 2002)

***Barypeithes mollicomus* (Ahrens, 1812)**

Curronian Spit (3), 02 07 2005, 1 spec. (R.F.), forest litter.

This European species is widely distributed in Fennoscandian countries, known from Estonia (Silfverberg, 2004) and Poland (Smreczyński, 1966). Larvae live in the soil of deciduous forests (Kula, 2002). This species is rare or very rare in all sites of its range, protected in Denmark (Danish Red Data Book, 1997).

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Nauji duomenys apie Lietuvos vabalų (Coleoptera) fauną

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Santrauka

Pateikiami duomenys apie 24 naujas Lietuvos entomofaunos vabalų (Coleoptera) rūšis: *Coelambus novemlineatus* (Stephens, 1829), *Agabus unguicularis* (Thomson, 1867), *Badister dorsiger* (Duftschmid, 1812), *Ophonus schaubergerianus* (Puel, 1937), *Harpalus progrediens* (Schauberger, 1922), *H. xanthopus winkleri* Schauberger, 1923, *Bradycellus csikii* (Laczó, 1912), *Paradromius longiceps* Dejean, 1826, *Philorhizus notatus* (Stephens, 1827), *Cercyon atricapillus* (Marsham, 1802), *C. sternalis* (Sharp, 1918), *Nargus velox* (Spence, 1815), *N. anisotomoides* (Spence, 1815), *Ischnozoma longicorne* (Mäklin, 1847), *Tachyporus tersus* Erichson, 1840, *Zyras funestus* (Gravenhorst, 1806), *Stenus kiesenwetteri* (Rosenhauer, 1856), *Ocypus olens* (Müller, 1764), *Phaenops formaneki* Jacobson, 1913, *Cryptophagus cellaris* (Scopoli, 1763), *Phryganophilus auritus* (Motshulsky, 1860), *Lissodema cursor* (Gyllenhal, 1813), *Barypeithes mollicomus* (Ahrens, 1812), *Bagous frit* (Herbst, 1795). Taip pat paneigiama anksčiau skelbta informacija apie *Chlaenius spoliatus* (Rossi, 1790), *Harpalus melancholicus* (Dejean, 1829) rūšis, kurios buvo neteisingai apibūdintos. Šios rūšys turi būti išbrauktos iš Lietuvos vabalų sąrašo.

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