TWENTY BEETLE (INSECTA: COLEOPTERA) SPECIES NEW FOR THE LITHUANIAN FAUNA

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Introduction

The Coleoptera fauna is still insufficiently known in Lithuania. The most recent list of Coleoptera species in Lithuania presented information on 3597 species of beetles (Tamutis et al., 2011). However the analysis of faunal data from neighboring countries evidenced that about 1390 species of Coleoptera are still undiscovered in Lithuania. The current article contains faunistic data on 20 beetle species new for the Lithuanian fauna.

The aim of this article is to supplement information on Lithuanian Beetles fauna and present data on Coleoptera species new for the Lithuanian fauna.

Material and Methods

The material was collected during field research in different districts of Lithuania, including Curonian Spit. Purpose of these studies was to gather new data on the beetle fauna of the Lithuania. The main part of the insects were collected by Romas Ferenca (R.F.), Povilas Ivinskis (P.I.), Aleksandras Meržijevskis (A.M.) and Saulius Karalius (S.K.). Several species: Choleva fagniezi Jeannel, 1922 (Leiodidae); Anthaxia godeti Gory, 1841 (Buprestidae); Dicronychus. equisetoides Lohse, 1976 (Elateridae); Orchesia undulata Kraatz, 1853 (Melandryidae) have been identified as a result of revision of Kaunas T. Ivanauskas Zoological Museum entomological collections. The specimens of these species were collected by Elena Gaidienė (E.G.), Sigitas Morkūnas (S.M.), Nijolė Nasevičienė (N.N.), Giedrius Švitra (G.Š.) and Vytautas Tamutis (V.T.). The beetles were collected using netting method, pitfall traps, hand – searching in moss as well as in leaf litter, sampling under the bark of dead tree trunks, logs and stumps.

The material is deposited in the collection of Kaunas T. Ivanauskas Zoological Museum (KZM), Nature Research Centre Institute of Ecology (NRCIE) and in a personal collection of A. Meržijevskis (AMC).

List of localities

Alytus t.	Vidzgiris reserve	54°22'51,9"N, 24°00'11,3"E
Birštonas municipality	Birštonas env.	54°36'N, 24°02'E
Curonian Spit	Nida env. (1)	55°17'09,3"N, 20°59'07,7"E
	Nida env. (2)	55°17'N, 20°59'E

	Nagliai reserve	55°28'10,5"N, 21°06'13,0"E
	Pervalka env.	55°25'11,4"N, 21°06'29,3"E
Jonava district	Būdų Miškas f.	54°58'14,3"N, 24°16'39,3"E
Kaunas district	Jiesia landscape reserve (1)	54°49'00,2"N, 23°55'02,4"E
	Jiesia landscape reserve (2)	54°50'51,0"N, 23°55'41,2"E
	Jiesia landscape reserve (3)	54°49'20,6"N, 23°54'51,8"E
	Jiesia landscape reserve (4)	54°51'25,5"N, 23°56'09,5"E
	Jiesia landscape reserve (5)	54°50'N, 23°56'E
	Dubravos Miškas f. (1)	54°49'34,7"N, 24°04'00,5"E
	Dubravos Miškas f. (2)	54°51'07,0"N, 24°04'28,2"E
	Ringovė reserve	55°05'07"N, 23°30'55,4"E
	Rokai env.	54°47'19,1"N, 23°55'01,7"E
Kaišiadorys district	Šešuva reserve	54°56'18,6"N, 24°14'53,2"E
Klaipėda t.	Smiltynė env.	55°42'N, 21°06'E
Klaipėda district	Giruliai env.	55°46'N, 21°04'E
	Kairiai env.	55°37'N, 21°12'E
	Nemirseta env.	55°51'27,5"N, 21°05'13,2"E
Marijampolės district	Juodeliai env.	54°23'00,3"N, 23°06'10,7"E
Palanga municipality	Monciškė env.	56°00'19,8"N, 21°04'27,6"E
Plungė district	Plokštinės Miškas f.	56°01'21,0"N, 21°55'22,4"E
Šakiai district	Juškinės Miškas f. (1)	55°01'09,7"N, 23°26'33,9"E
	Juškinės Miškas f. (2)	55°00'49,4"N, 23°27'07,4"E
	Juškinės Miškas f. (3)	55°00'22,7"N, 23°26'53,4"E
	Tervydoniai env.	55°01'40,7"N, 23°26'57,0"E
Tauragė district	Viešvilė Nat. R. (1)	55°10'43,8"N, 22°27'31,1"E
	Viešvilė Nat. R. (2)	55°08'22,1"N, 22°26'57,9"E
Varėna district	Čepkeliai Nat. R.	54°01'40,5"N, 24°24'38,3"E
	Dubičiai env.	55°01'13,9"N, 24°47'02,9"E
	Puvočiai env.	54°06'N, 24°19'E
Vilnius district	Dūkštų Ąžuolynas f.	54°49'45,2"N, 24°57'24,1"E
Vilnius district	Kalniškės env.	54°50'49,3"N, 25°10'34,9"E
	Naujoji Vilnia env.	54°41'N, 25°23'E

List of species

CARABIDAE

***Bradycellus verbasci* (Duftshmid, 1812)**

Kairiai, 15 08 1993, 1♀ (S.K.). (KZM).

Species is widely distributed in South and Central Europe including British islands (Barševskis, 2003; Vigna Taglianti, 2011), also known in neighboring countries: Kaliningrad region (Alekseev & Bukejs, 2010), Poland (Aleksandrowicz *et al*., 2003; Lobl & Smetana, 2003), Southern Sweden (Lundberg & Gustafsson, 1995). This species is asociated with dry and unshaded habitats: forest edges and clearings (Hůrka, 1996). Lithuania is the northern border of main distribution area.

DYTISCIDAE

***Agabus biguttulus* (Thomson, 1867)**

Rokai env., 03 06 2008, 1♂7♀ (R.F.). (KZM).

This Euro-Siberian species is distributed in Central and North Europe and North Asia east to Mongolia (Lobl & Smetana, 2003; Nilsson, 2008, 2011). Beetles occur in small forest puddles and peatbogs (Burakowski *et al*., 1976).

A. biguttulus was noted for Lithuania by Gaidienė (1993), but later this species was excluded from the list of Lithuanian beetles as the specimen was misidentified instead *Agabus affinis* (Paykull, 1798) (Tamutis *et al*., 2011)

PTILIIDAE

***Ptiliolum schwarzi* (Flach, 1887)**

Tervydoniai, 24 09 2006, 1♀ (R.F.).(KZM).

This species is spread throughout Europe from Sicily north to Scandinavia. The northern border reaches 65°. Beetles develop in decaying hay, compost heaps, under the carrion or in the dung of various animals (Burakowski *et al*., 1978; Polilov, 2011).

LEIODIDAE

***Agathidium mandibulare* Sturm, 1807**

Jiesia reserve (1), 20 06 2006, 1♂ (R.F.).(KZM).

Species is widespread in almost all of Europe except northern part (Angelini, 2011). Inhabits areas of hilly, upland and mountain regions. It occurs mostly in the forests of spruce. (Burakowski *et al*., 1978).

***Choleva fagniezi* Jeannel, 1922**

Naujoji Vilnia, 06 10 2009, 1♂ (N.N.).(KZM).

This species is known from central and northern Europe, north to Finland (Burakowski *et al.*, 1978; Blas, 2011), also known in Denmark (Silfverberg, 2004), Sweden (Lundberg & Gustafsson, 1995). The beetle occurs in small mammal burows (Burakowski *et al.*, 1978).

STAPHYLINIDAE

***Anthobium unicolor* (Marsham, 1802)**

Pervalka env., 15 05 2002, 1♂2♀ (R.F.).(KZM).

This species known in several countries in west and central Europe: Belgia, British Islands, Denmark, France, Germany, Poland, Switzerland, Netherlands (Smetana, 2011), south Fenoscandia (Lundberg & Gustafsson, 1995). It occurs from late autumn to spring in moist forests under fallen leaves, in rotting wood, patches of moss and rotting fungi (Burakowski *et al.*, 1979).

***Stenus excubitor* (Erichson, 1839)**

Juškinės Miškas f. (1), 02 07 2006, 3♀ (R.F.), Viešvilė Nat. R. (1), 08 07 2008, 1♂ (R.F.).(KZM).

This species is sporadically spread in central and south-west Europe and Caucasus (Burakowski *et al.*, 1979), also known in northwestern Belarus (Alexandrovich *et al*., 1996), Denmark, Estonia (Silfverberg, 2004), Latvia (Telnov, 2004). This species lives in peat bogs and wet meadows (Burakowski *et al.*, 1979).

***Stenus fossulatus* Erichson, 1840**

Jiesia reserve (2), 20 06 2006, 2♀ (R.F.).(KZM).

Species is distributed in central and southern Europe (Burakowski *et al.*, 1979), known in Latvia (Telnov *et al.*, 2006) and occurs mainly in the rivers and ravine slopes overgrown with coltsfoot (*Tussilago farfara*) (Burakowski *et al.*, 1979).

***Thinodromus arcuatus* (Stephens,1834)**

Rokai env.,03 06 2008, 1 spec. (R.F.).(KZM).

Species is widespread from the British Islands and southern parts of Fennoscandia throughout the European continent to North Africa. Moreover, known from Asia Minor, the Caucasus and Siberia (Lundberg & Gustafssons 1995; Silfverberg, 2004; Smetana, 2011). This beetle occurs mainly in lowland areas, is found on sandy and gravel shores of rivers and streams - among gravel and pebbles, under stones, leaves and plant debris (Burakowski *et al.*, 1979).

BUPRESTIDAE

***Anthaxia godeti* Gory, 1841**

Puvočiai env., 03 07 1988, 1 spec. (G.Š.), Dubičiai env., 18 05 2001, 2 spec. (P.I.).(KZM).

Species widely distributed in central and southern Europe and North Africa (Kubán & Bily, 2011). Larvae of *A. godeti* develop mainly under the bark of Common Scots pine (*Pinus sylvestris*) also other coniferous trees: *Picea, Abies, Larix* (Freude *et al*., 1979). Adults of *A. godeti* are living on the trunks of coniferous trees and on the yellow blossoms of various plants from the end of april to mid of september.(Burakowski *et al.*, 1985).

ELATERIDAE

***Dicronychus equisetoides* Lohse, 1976**

Birštonas env. 21 07 1969, 1 spec. (E.G.); Čepkeliai Nat.R., 16 05 1984, 1 spec. (R.F.); Dubravos Miškas f. (1), 09 05 1981, 4 spec., (R.F.); Dubravos Miškas f. (2), 24 04 2003, 1 spec. (R.F.); Giruliai env., 20 05 1990, 1 spec. (S.K.); Jiesia reserve(3), 22 04 1984, 22 spec., 01 05 1986, 1 spec. (R.F.); Juodeliai env., 29 051998, 1 spec., (R.F.); Monciškė env., 09 05 2001, 2 spec., 14 06 2001, 1 spec. (R.F.); Nagliai reserve, 26 05 2010, 1 spec. (R.F.); Nemirseta env., 08 06 2004, 1 spec. (P.I.); Nida env. (2), 19 05 1993, 2spec. (S.K.), Nida env. (1), 22 05 2006, 1 spec. (R.F.) Smiltynė env., 07 05 1989, 1 spec., 23 05 1992, 1 spec., 25 05 1992, 1 spec. (S.K.); Vidzgiris reserve, 15 05 1998, 2 spec. (R.F.); Viešvilė Nat.R. (2), 19 05 2008, 2 spec. (V. T.).(KZM).

Earlier publications on *D. equiseti* (Gaidienė, 1993; Pileckis & Monsevičius, 1995; Tamutis & Zolubas, 2001; Ferenca, 2006; Tamutis *et al*., 2010) are actually related to *D. equisetoides*. This species is distributed mainly in central Europe including Great Britain (Lobl & Smetana, 2007; Cate, 2011) also known from Latvia (Telnov, 2004) and Sweden (Lundberg & Gustafsson, 1995).

CANTHARIDAE

***Malthodes maurus* (Laporte,1840)**

Ringovė reserve, 1998 05 20, 1♂ (R.F.).(KZM).

This species is widespread throughout the Europe from the north Fennoscandian, Kola peninsula, to France and northern Italy.It usually occurs on the willows on the banks of rivers. (Burakowski *et al*., 1985).

ANOBIIDAE

***Xyletinus fibyensis* Lundblad, 1949**

Kalniškės, 31 06–07 07 2008, 1 spec., 27 07–03 08 2008 ,1 spec.(P.I.). (NRCIE).

Species is known in neighboring countries: Belarus (Zahradník, 2011), Latvia (Telnov, 2004), Poland (Burakowski *et al*., 1986), Sweden (Lundberg & Gustafsson, 1995). Life cycle and ecology of this species are unknown.

PHALACRIDAE

***Phalacrus championi* Guillebeau, 1892**

Juškinės Miškas f. (2), 04 06 2006, 2 ♀ (R.F.).(KZM).

The species is distributed in central Europe (Burakowski *et al*., 1986; Švec, 2011), known in Latvia (Telnov, 2004), Sweden (Lundberg & Gustafsson, 1995). Imagos occur on the sedge (*Carex*) (Burakowski *et al*., 1986).

***Stilbus atomarius* (Linnaeus, 1767)**

Juškinės Miškas f. (3), 10 05 2003, 1♂ (R.F.), Juodkrantė env., 07 07 2004, 1 ♂ (R.F.).(KZM).

This species is widely distributed throughout Europe (Švec, 2011). The adults occur on various herbaceous plants from May to October, overwinter in moss. (Burakowski *et al*., 1986).

MELANDRYIDE

***Orchesia undulata* Kraatz, 1853**

Jiesia reserve (4), 03 04 1983, 1 spec., 30 04 2010, 1 spec. (R.F.); Dūkštų Ąžuolynas f., 01-15 06 2003, (S.M.) (KZM).

The species is distributed in Europe, except northern part of Fennoscandian and Balkan peninsula, also known in North Africa (Algeria) and Caucasus (Burakowski *et al*., 1987; Nikitski, 2011).

The development of this species takes two years, larvae feed on the fungi overgrown wood stumps, trunks and branches. (Burakowski *et al*., 1987).

TENEBRIONIDAE

***Platydema dejeanii* (Laporte & Brullé, 1831)**

Šešuva reserve, 26 08 2010, 2 ♂, under the bark of dead oak (R.F.); Būdų Miškas f., 05 09 2011 1♂, under the bark of dead oak (R.F.).(KZM).

This Euro - Siberian species is distributed in central, western and south–west Europe (Lobl & Smetana, 2008; Fattorini, 2011), eastern border of this species extends to Vladivostok (Burakowski *et al*., 1987). Beetles are found under the bark of dead deciduous trees or on bodies of fungi growing on the trunks. (Burakowski *et al*., 1987). Lithuania is the northern border of main distribution area.

SALPINGIDAE

***Vincenzellus ruficollis* (Panzer, 1794)**

Jiesia reserve .(5), 20 05 2005, 1 spec. (A.M.).(AMC).

This species is distributed in southern and central Europe, north to southern Sweden and Denmark (Lundberg & Gustafsson, 1995; Lobl & Smetana, 2008). Beetles occur under the bark and in rotten wood of dead deciduous trees (Burakowski *et al*., 1987). The specimen was shaken from the branches of deciduous trees This is the first record from Baltic countries.

NANOPHYIDAE

***Nanomimus circumscriptus* (Aubé, 1864)**

Plokštinės Miškas f., 21 05 2011, 1 spec. (R.F.).(KZM).

Species is known in different countries of central and northern Europe, also is found in neighboring countries: Belarus (Alexandrovitch *et al.*, 1996), Latvia (Telnov, 2004), Poland (Wanat & Mokrzycki, 2005), Sweden (Lundberg & Gustafsson, 1995).

The beetles occur over the ditches on swampy humid places. Larvae feed on loosestrife (*Lythrum*). (Burakowski *et al*., 1992).

CURUCLIONIDAE

***Sitona waterhousei* Walton, 1846**

Kalniškės, 02 06 2007, 2 spec. (P.I.).(NRCIE).

This species is distributed in south – western and central Europe, known also in neighboring countries: Belarus (Alexandrovich *et al.,* 1996) Denmark (Lundberg & Gustafsson, 1995), Poland (Wanat & Mokrzycki, 2005). Beetles occur mainly in dry sunny slopes, dry grasslands or roadsides, larvae feed on *Lotus* sp (Burakowski *et al*., 1993).

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Dvidešimt naujų Lietuvos faunos vabalų (Coleoptera) rūšių

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Santrauka

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