

NEW RECORDS OF RARE COLEOPTERA SPECIES FROM VILNIUS AND TRAKAI ADMINISTRATIVE DISTRICTS, SOUTH-EASTERN LITHUANIA

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Introduction

Coleoptera is one of the most studied insect orders in Lithuania. Two monographs dealing with Lithuanian beetles were published in 1995 and 1997 (Pileckis & Monsevičius, 1995, 1997). Approximately 2879 species living in Lithuania were listed in these two volumes. Ferenca *et al.* (2006) briefly outlined discovery of 482 new species of beetles during the next decade. Registration of new species of beetles for the Lithuanian fauna was continued by different authors (Tamutis & Ferenca, 2006; Ferenca *et al.*, 2007; Gedminas *et al.*, 2007). Distributional data concerning rare and endangered species of beetles is still very scanty. It means that Coleoptera order remains insufficiently studied in Lithuania.

The aim of this report is to present new data contributing to our knowledge on distribution of rare Coleoptera species in Lithuania.

Material and Methods

Beetles were collected by the author of this report using a standard entomological net in Trakai and Vilnius administrative districts in 2000–2008. The material is deposited in the collection of the Department of Zoology of Vilnius Pedagogical University, Lithuania.

List of species

CARABIDAE

Carabus (Procrustes) coriaceus Linnaeus, 1758

Vilnius distr., Terešiškės env. (54°29'02.34"N, 25°14'44.97"E), 22 08 2004, 1 spec., 14 07 2007, 1 spec.

Carabus (Megodontus) violaceus Linnaeus, 1758

Trakai distr., Čižiūnai env., 30 05 2006, 1 spec.; 4 km NW of Čižiūnai (54°37'08.51"N, 24°30'29.10"E), 03 06 2008, 1 spec.

CERAMBYCIDAE

Necydalis major Linnaeus, 1758

Trakai distr., 3 km NW of Čižiūnai (54°36'39.36"N, 24°31'54.62"E), 29 06 2000, 1 spec.

Discussion

Carabus coriaceus is known from almost all Europe, except the northern regions, the Iberian Peninsula, the British Isles, Iceland and Finland (Vigna Taglianti, 2007). In the East, range of species extends until Volga River in Russia (Ferenca, 2007 a). *C. coriaceus* is listed in the Red Data Books of neighbouring countries, except Poland. In Lithuania, specimens have been recorded mostly from central and southeastern parts (Monsevičius & Pileckis, 1992; Ivinskis *et al.*, 1998, 2000 a, 2004; Ferenca, 2007 a). The species is included into the Red Data Book of Lithuania (the 3rd (R) category - rare species with a small number of populations due to their biological characteristics).

Two specimens of *C. coriaceus* reported here were found in the agricultural gardens near Terešiškės and situated about 100 meters from a pine forest.

Carabus violaceus is widely distributed throughout Europe, except Iceland, Portugal and Slovenia (Vigna Taglianti, 2007). Among the neighbouring countries, this species is included only into the Red Data Book of the Republic of Belarus (Pashkov, 2004). According to S. Pileckis & Vidm. Monsevičius (1995), *C. violaceus* is a rare species in Lithuania. Earlier this species was reported from Šiauliai administrative district (Ivinskis *et al.*, 2000 b; Ferenca *et al.*, 2002), Švenčionys district (Sorokaitė & Bartkevičienė, 2006) and Varėna district (Monsevičius, 1997; Tamutis & Dapkus, 2007). Data about this species also are presented in the Internet sites of Kuršių Nerija National Park (Kuršių...) and Municipality of Alytus (Alytus...). This is the first record about *C. violaceus* in Trakai administrative district.

Necydalis major is widely distributed throughout Europe, but it is not recorded from Portugal, Slovenia, British Isles and Denmark (Sama, 2007). The species is included into the Red Data Book of Lithuania (the 4th (I) category - indeterminate species, which cannot be included in the other categories due to a lack of data). In addition, this species is included in the list of key species of forests' habitats (Ehnström *et al.*, 2003). Earlier *N. major* was recorded from Marijampolė, Prienai, Varėna, Kaunas, Šiauliai and Tauragė administrative districts (Ehnström *et al.*, 2003; Rimšaitė *et al.*, 2006; Ferenca, 2004, 2007 b; Uselis *et al.*, 2007). This is the first record of *N. major* in Trakai administrative district.

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Nauji duomenys apie retas vabalų (Coleoptera) rūšis Vilniaus ir Trakų rajonuose (pietryčių Lietuva)

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Santrauka

Pateikti duomenys apie 3 retas vabalų rūšis (*Carabus coriaceus* L., *C. violaceus* L., *Necydalis major* L.), aptiktas Vilniaus ir Trakų rajonuose. Kiekvienai rūšiai nurodytos tikslios sugavimo vietos, datos ir individų skaičius. Rūšys *Carabus coriaceus* ir *Necydalis major* yra įrašytos į Lietuvos raudonąją knygą, o *N. major* ir į Kertinių miško buveinių indikatorinių rūšių sąrašą.

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