

NEW RECORDS OF RARE SPECIES OF COLEOPTERA FOUND IN UKMERGĖ DISTRICT IN 2004–2005

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Introduction

Studies of beetle fauna are very sparse and episodic, especially in the middle Lithuania. Data from Ukmergė administrative district is quite insufficient as only one comprehensive research related to Coleoptera was performed and published (Dvilevičius *et al.*, 1988). That was one of the main reasons for doing an extensive beetle field research using pitfall traps in forests near Ukmergė town and Vaitkuškis village in 2004–2005, and a part of the data is presented in this article.

Material and Methods

The ground beetles (Carabidae) and carrion beetles (Silphidae) were collected during the period of seven months from April till September, 2004. Pitfall traps were used as a method for the collecting of epigeic beetles. Fifty pitfall traps were set in five different types of deciduous forests situated to the south-east from Ukmergė town. Half of them were with attractant (yeast) and other half without it. Beetles were also caught using other methods: caught by hand, seeking in a dead wood and under the bark of trees.

The data contains information on the locality, finding date, the collecting method and the number of the collected specimens. The nomenclature of beetles is used according to the Fauna Europaea Database (Fauna Europaea Web Service, 2007).

The material is preserved in Kaunas T. Ivanauskas Zoological Museum and in the personal collections of Giedrius Švitra and Norbertas Noreika.

List of localities

Pašilė Forestry (1)	55°20'01"N, 24°75'58"E
Pašilė Forestry (2)	55°21'22"N, 24°81'42"E
Pašilė Forestry (3)	55°19'97"N, 24°75'53"E
Pašilė Forestry (4)	55°20'33"N, 24°75'65"E
Pašilė Forestry (5)	55°21'07"N, 24°79'79"E
Pašilė Forestry (6)	55°20'31"N, 24°75'73"E
Pašilė Forestry (7)	55°13'04"N, 24°47'47"E
Pašilė Forestry (8)	55°22'19"N, 24°80'73"E
Pašilė Forestry (9)	55°12'24"N, 24°43'28"E
Vaitkuškis env.	55°12'35"N, 24°47'53"E

List of species

CARABIDAE

Calosoma inquisitor (Linnaeus 1758)

Pašilė Forestry (1), 21 06 2004, 1 spec., 29 06 2004, 1 spec., 31 05 2004, 2 spec.; 10 06 2004, 1 spec.; Pašilė Forestry (2), 31 05 2004, 1 spec., 10 06 2004, 1 spec.; Pašilė Forestry (3), 10 06 2004, 5 spec.; Pašilė Forestry (4), 10 06 2004, 1 spec.; Pašilė Forestry (5), 10 06 2004, 1 spec. (caught with pitfall traps)

Carabus convexus Fabricius 1775

Pašilė Forestry (1), 22 10 2004, 1 spec.; Pašilė Forestry (4), 20 04 2004, 1 spec.; Pašilė Forestry (6), 10 04 2004, 1 spec., 20 04 2004, 1 spec., 30 04 2004, 1 spec., 20 05 2004, 2 spec., 10 06 2004, 1 spec., 11 06 2004, 1 spec. (caught with pitfall traps)

SILPHIDAE

Dendroxena quadrimaculata (Scopoli 1772)

Pašilė Forestry (7), 20 05 2004, 3 spec., 10 06 2004, 2 spec. (caught by hand and with pitfall traps).

CETONIIDAE

Protaetia lugubris (Herbst 1786)

Pašilė Miškas f. (8), 10 05 2004, 1 spec. (caught with pitfall traps)

Osmoderma barnabita Motschulsky, 1845

Vaitkuškis village (found in the ruins of Vaitkuškis Estate, close to deciduous forest with old maples and ashes), 2005 08 26, 1 spec. (caught by hand).

TROGOSSITIDAE

Peltis grossa (Linnaeus 1758)

Pašilė Forestry (9), 17 07 2004, 1 spec. (found by seeking in a dead wood and under the bark of trees).

Discussion

New records of two rare carabid species, one protected silphid and one cetoniid species were registered using pitfall traps. Protected beetles belonging to Cetoniidae, Silphidae and Trogositidae families were registered using other catching techniques. Five species of beetles included into the Red Data Book of Lithuania (Rašomavičius, 2007) were registered during the studies: *Calosoma inquisitor*, *Protaetia lugubris*, *Peltis grossa*, *Dendroxena quadrimaculata* and *Osmoderma barnabita*.

O. eremita s.l. is protected under the EU Habitats directive (Council Directive, 1992) but several species were separated from this species complex recently (Audisio *et al.*, 2007). *O. barnabita* is formally no longer protected. It was the first time when this species was registered in Ukmergė administrative district. It was observed in several other districts in middle Lithuania as well (Ferenca, 2004; Inokaitis, 2004; Ranius *et al.*, 2005).

Carabus convexus is a rare species in Lithuania (Pileckis & Monsevičius, 1995). Several records of this species were known in the country (Ogijewicz, 1933; Ferenca *et al.*, 2002; Šablevičius, 2003; Žiogas & Zolubas, 2005). Only one record of this species was known in Ukmergė administrative district earlier (Dvilevičius *et al.*, 1988).

Several specimens of *Calosoma inquisitor* were found in Pašilė Forestry in 1977

(Pileckis & Monsevičius, 1995), and it was repeatedly registered in 2004. This ground beetle was also found in several other administrative districts of Lithuania (Pileckis & Monsevičius, 1995; Ferenc 2004).

Dendroxena quadrimaculata was known from different parts of Lithuania (Pileckis & Monsevičius, 1995; Ferenc 2004), and five specimens were registered during our studies.

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Nauji retų vabalų (Coleoptera) rūšių radimo faktai Lietuvoje 2004–2005 metais

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Santrauka

Straipsnyje pateikiami duomenys apie Lietuvoje retų šešių vabalų rūšių naujas radavietes Ukmergės apylinkių miškuose (Pašilės girininkijoje ir Vaitkuškio kaime) 2004–2005 metais. Medžiaga rinkta naudojant įkasamas į žemę gaudykles, ieškant vabalų po žieve ir sutręšusioje medienoje bei rinkta rankomis. Penkios užregistruotos vabalų rūšys yra įrašytos į Lietuvos raudonąją knygą, viena iš jų – niūraspalvis auksavabalis (*Osmoderma barnabita*) – įrašyta į ES Buveinių direktyvą kaip *O. eremita s.l.* Paminėtinas mažasis puošniažygis (*Carabus convexus*) - labai reta Lietuvoje vabalų rūšis.

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