

A NEW LEAF-BEETLE FOR THE LATVIAN FAUNA: *CRYPTOCEPHALUS QUADRIPUSTULATUS* GYLLENHAL, 1813 (COLEOPTERA: CHRYSOMELIDAE)

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Abstract. The first actual records of the leaf-beetle *Cryptocephalus quadripustulatus* Gyllenhal, 1813 in Latvia are reported and the general information on this species is presented.

Key words: Coleoptera, Chrysomelidae, Latvia, fauna, new record

INTRODUCTION

The genus *Cryptocephalus* Geoffroy, 1762 is a cosmopolitan taxon with more than 1,000 species. There are 398 species known in the Palaearctic region (Lopatin & Dovgailo 2002). At present, 83 species are reported from Eastern Europe (Bieńkowski 2004). A total of 42 species of *Cryptocephalus* have been reported from Belarus (Lopatin & Nesterova 2005), 28 species from Estonia (Silfverberg 2004), 35 species from Lithuania (Pileckis & Monsevičius 1997; Silfverberg 2004; Bukejs & Barševskis 2008), 28 species from the Kaliningrad region (Aleksiev 2003; Bukejs & Aleksiev 2009) and 30 species from St. Petersburg and the Leningrad region (Romantsov 2007).

The current article presents faunal data on the leaf-beetle *Cryptocephalus quadripustulatus* Gyllenhal, 1813. This species is reported from Latvia for the first time.

MATERIAL AND METHODS

The examined material is stored in the collection of Daugavpils University, Institute of Systematic Biology (DUBC).

The following keys were used for the identification of specimens: Bieńkowski (2004), Lopatin and Nesterova (2005) and Warchałowski (2003).

The photographs were taken using a *Zeiss Stereo Discovery V12* stereomicroscope and an *AxioCam* digital camera.

RESULTS AND DISCUSSION

The current study of the leaf-beetle fauna confirmed the occurrence of the species *Cryptocephalus quadripustula-*

tus Gyllenhal, 1813 in Latvia for the first time. Sampling locations of species specimens are presented in Fig. 1. This record has replenished the list of leaf-beetles of the Latvian fauna, which is currently known to comprise 31 species of the genus *Cryptocephalus* (Bukejs *et al.* 2007; Bukejs 2009; Bukejs (in press)).

Chrysomelidae Latreille, 1802

Cryptocephalinae Gyllenhal, 1813

Cryptocephalus quadripustulatus Gyllenhal, 1813

syn.: *apicalis* Marseul, 1875; *bisignatus* Suffrian, 1847

Material examined (Fig. 1): eight specimens: Daugavpils district, Ilgas, Silene Nature Park, June 1985 (1, leg. A. Barševskis), 13 June 1991 (2, leg. A. Barševskis), 2 July 1996 (1, leg. A. Barševskis); Daugavpils district, Līksna parish, Ļubaste E env., Daugavpils beltway, 15 June 2006 (1, leg. A. Barševskis); Daugavpils district, Skrudaliena, 11 June 2001 (1, leg. R. Cibulskis); Jēkabpils district, Atašiene, Teiči Nature Reserve, 21 June 1991 (1, leg. A. Barševskis); Krāslava district, Piedruja, 9 July 1991 (1, leg. A. Barševskis).

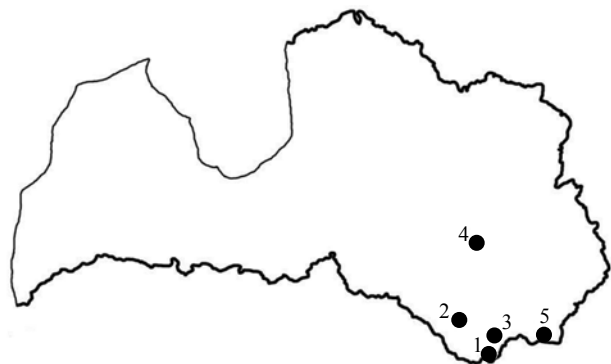


Figure 1. Localities of *Cryptocephalus quadripustulatus* in Latvia: 1 – Ilgas, 2 – Ļubaste E env., 3 – Skrudaliena, 4 – Atašiene, 5 – Piedruja.

This species was mentioned by Seidlitz (1872–1875, 1887–1891) and Rathlef (1905) for eastern Baltic countries but without any data on precise locality in Latvia. Therefore it was not included in catalogues of Latvian Coleoptera (Telnov *et al.* 1997; Telnov 2004).

Distribution: *Cryptocephalus quadripustulatus* is distributed in Central and North Europe (Bieńkowski 2004; Lopatin & Nesterova 2005; Warchałowski 2003). According to the catalogue of Silfverberg (2004), it occurs in Sweden, Finland, Norway, Karelia, Estonia and Lithuania. The species is also known from Belarus (Lopatin & Nesterova 2005), the Kaliningrad region (Bukejs & Alekseev 2009) and the Leningrad region (Romantsov 2007).

Host plant: The species feeds on *Pinus silvestris* (Lopatin & Nesterova 2005), *Abies*, *Picea*, *Larix* (Bieńkowski 2004).

Morphology: (Fig. 2). Length 3.5–4.5 mm. Upper side black, without metallic reflection; frons and vertex black, clypeus, labrum and genae yellow (Fig. 3); lateral

borders of pronotum, epipleura, a marking below humeral callus and transverse marking before elytral apex rufous; bases of femora, bases of antennae, tibiae and fore legs yellow; underside black. In melanistic aberration *aethiops* Wseise, 1882 apical spot absent, epipleural spot present but strongly reduced. Rufous part of epipleura not swollen, its margin forms a narrow ridge. Elytral punctures confused.

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Figure 2. *Cryptocephalus quadripustulatus*: habitus, dorsal.



Figure 3. *Cryptocephalus quadripustulatus*: head, frontal.

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NAUJA LATVIJOS FAUNAI LAPGRAUŽIŲ RŪŠIS *CRYPTOCEPHALUS QUADRIPUSTULATUS* GYLLENHAL, 1813 (COLEOPTERA: CHRYSOMELIDAE)

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SANTRAUKA

Informuojama apie pirmą kartą Latvijoje aptiktus lapgraužius *Cryptocephalus quadripustulatus* Gyllenhal, 1813. Pateikiama bendra informacija apie šią vabalų rūšį ir aprašomas naujas rūšies aptikimo atvejis.

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