

SOME LEAF-BEETLES SPECIES (COLEOPTERA: CHRYSOMELIDAE) MISTAKENLY REPORTED FOR THE LATVIAN FAUNA

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During revision of collection material in connection with the study of leaf-beetles of Latvian fauna, I discovered that voucher material for several species were misidentified. Thus, *Labidostomis lucida axillaris* (Lacordaire, 1848), *Cryptocephalus signatifrons* Suffrian, 1847, *C. elegantulus* Gravenhorst, 1807, *C. chrysopus* (Gmelin, 1788), *C. pygmaeus* Fabricius, 1792, *C. populi* Suffrian, 1848, *C. rufipes* (Goeze, 1777), and *Ochrosis ventralis* (Illiger, 1807) are deleted from the check-list of Latvian Coleoptera. General information on these species are given.

Key words: Coleoptera, Chrysomelidae, Latvia, fauna, misidentifications.

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INTRODUCTION

The leaf-beetles (Chrysomelidae) are one of the largest beetle family in the world fauna (30000 – 50000 species are known) (Bieńkowski 2004, Jolivet 1988, Mohr 1966) and also in the Latvian fauna.

The history of investigation of leaf-beetles in Latvia is more than 220 years old. It is necessary to give particular attention to V. Pūtele works on studying of Chrysomelidae of Latvian fauna. She has mentioned more than 30 species for Latvia for the first time. However the reports of some species mentioned for the local fauna are doubtful (Bukejs 2008).

The part of collection of V. Pūtele is preserved in the entomological collection of the Latvian University Institute of Biology. During the current research the revision of this material has been made.

MATERIAL AND METHODS

The examined material is stored in the collection of V. Pūtele (in Institute of Biology LU, Salaspils) and entomological collection of the Latvian University Institute of Biology (Salaspils, Latvia).

The following information is given for each species: scientific name & author, published bibliographic sources for Latvia, revised material, host plants, general distribution (after Warchałowski 1991, 1993, 1998, 2003, Bieńkowski 2004) and notes.

RESULTS AND DISCUSSION

During revision of material of V. Pūtele ex-collection and collection of the Latvian University Institute of Biology, I discovered that voucher material for *Labidostomis lucida axillaris* (Lacordaire, 1848), *Cryptocephalus signatifrons*

Suffrian, 1847, *C. elegantulus* Gravenhorst, 1807, *C. chrysopus* (Gmelin, 1788), *C. pygmaeus* Fabricius, 1792, *C. populi* Suffrian, 1848 and *C. rufipes* (Goeze, 1777) were misidentified. Occurrence of *Ochrosis ventralis* (Illiger, 1807) in the Latvian fauna also is doubtful. Therefore these species were deleted from the check-list of Latvian Coleoptera.

Some leaf beetle species, *Aphthona nigriceps* (Redtenbacher, 1842), *A. gracilis* Faldermann, 1837, *A. aeneomicans* Allard, 1875, *Neocrepidodera crassicornis* (Faldermann, 1837), *Chaetocnema breviscula* (Faldermann, 1837) and *Psylliodes deplanatus* L. Medvedev, 1962, were deleted previously in catalogues of Latvian Coleoptera (Telnov et al. 1997; Telnov 2004). Reports of these species were based on misidentification too.

CHRYSOMELIDAE LATREILLE, 1802 CLYTRINAE KIRBY, 1837

Labidostomis lucida axillaris (Lacordaire, 1848)

syn.: *sareptana* Kraatz, 1872

References: Pūtele 1984 (*lucida sareptana* Kr.); Telnov et al. 1997 (*lucida* Germar, 1824); Telnov 2004 (*lucida* Germar, 1824).

Material in revised collection: Record of this species “Krasti, 06.07.1977 (1 ex., leg. V.Pūtele)” was misidentified and relate to *Labidostomis longimana* (Linnaeus, 1761).

General distribution: SE Europe (north to Slovakia), Caucasus, Iran, south part of Siberia (eastward till Baikal), Kazakhstan.

Note: Occurrence of this species in Latvian fauna is impossible, therefore it is excluded from the list of Latvian Coleoptera.

CRYPTOCEPHALINAE GYLLENHAL, 1813

Cryptocephalus signatifrons Suffrian, 1847

References: Telnov et al. 1997; Telnov 2004; Valainis 2007; Bukejs et al. 2007; Bukejs 2008a.

Material in revised collection: Record of this species “Ozolnieki, 12.06.1977 (1 ex., leg. V.Pūtele)” was misidentified and relate to *C. decemmaculatus* (Linnaeus, 1758).

Host plants: *Corylus*, *Quercus* (Bienkowski 2004).

General distribution: S and southern part of C Europe (northward to Poland and Ukraine), Asia Minor (Turkey).

Note: Faunal data of this species in Latvia are absent, therefore it is excluded from the list of Latvian Coleoptera.

Cryptocephalus elegantulus Gravenhorst, 1807

References: Pūtele 1974; Telnov et al. 1997; Telnov 2004; Valainis 2007; Bukejs et al. 2007; Bukejs 2008a.

Material in revised collection: Single report of this species “Mežciems, 13.08.1972 (1 ex., leg. V.Pūtele)” (Pūtele 1974) was misidentified and relate to *C. fulvus* Goeze, 1777.

Host plants: *Artemisia* (Lopatin, Nesterova 2005).

General distribution: Europe (excl. N), Caucasus, south part of Siberia, Kazakhstan, Central Asia (Kyrgyzia), Mongolia, Russian Far East, China, Korean Peninsula.

Note: Faunal data of this species in Latvia are absent, therefore it is excluded from the list of Latvian Coleoptera. The nearest known locality of this species is in Poland (Warchałowski 1991; A. Warchałowski pers. comm.) and southern Belarus (Lopatin, Nesterova 2005).

Cryptocephalus chrysopus (Gmelin, 1788)

References: Pūtele 1974, 1984; Telnov et al. 1997; Telnov 2004; Valainis 2007b; Bukejs et al. 2007; Bukejs 2008a.

Material in revised collection: Report of this species “Tetele, 12.08.1973 (1 ex., leg. V.Pūtele)” (Pūtele 1974) was misidentified and relate to *C. pusillus* Fabricius, 1777.

Host plants: *Salix*, *Quercus*, *Rosa* (Lopatin, Nesterova 2005).

General distribution: Europe (excl. N), Caucasus, Sayans, Kazakhstan.

Note: Probably, other report of this species by V. Pūtele (Pūtele 1984) from Slītere National Park were based also on misidentification. Occurrence of this species in Latvian fauna is doubtful, therefore it is excluded from the list of Latvian Coleoptera. The nearest known localities of this species are in Poland (Warchałowski 1991; A. Warchałowski pers. comm.) and southern Belarus (Lopatin, Nesterova 2005).

***Cryptocephalus pygmaeus* Fabricius, 1792**

References: Pūtele 1974; Telnov et al. 1997; Telnov 2004; Bukejs et al. 2007; Bukejs 2008a.

Material in revised collection: Record of this species “Misa, 06.07.1977 (1 ex., leg. V.Pūtele)” was misidentified and relate to *C. fulvus* Goeze, 1777.

Host plants: various Lamiaceae and Compositae (Bienkowski 2004).

General distribution: Europe (excl. N), NW Africa (Morocco), Near East, Asia Minor, Caucasus, Kazakhstan.

Note: Occurrence of this species in Latvian fauna is doubtful, therefore it is excluded from the list of Latvian Coleoptera. The nearest known localities of this species are in Ukraine and S Poland (Warchałowski 1991; A. Warchałowski pers. comm.).

***Cryptocephalus populi* Suffrian, 1848**

References: Telnov et al. 1997; Telnov 2004; Bukejs et al. 2007; Bukejs 2008a.

Material in revised collection: Records of this species “Šķede, 24.07.1973 (1 ex., leg. V.Pūtele)”, “Malta, 07.07.1977 (1 ex., leg. V.Pūtele)”, and “Rūkši, 24.07.1973 (1 ex., leg. V.Pūtele)” were misidentified and relate to *C. fulvus* Goeze, 1777.

Host plants: *Salix*, *Populus* (Lopatin, Nesterova 2005).

General distribution: C and S Europe, Caucasus, Kazakhstan, south part of Russian Far East.

Note: Faunal data of this species in Latvia are absent and its occurrence in local fauna is doubtful, therefore it is excluded from the list of Latvian Coleoptera. The nearest known locality of this species is in Poland (Warchałowski 1991; A. Warchałowski pers. comm.) and southern Belarus (Lopatin, Nesterova 2005).

***Cryptocephalus rufipes* (Goeze, 1777)**

References: Telnov et al. 1997; Telnov 2004; Bukejs et al. 2007; Bukejs 2008a.

Material in revised collection: Record of this species “Tiļiši, 06.08.1977 (1, leg. V.Pūtele)” was misidentified and relate to *C. pusillus* Fabricius, 1777.

Host plants: *Salix*, *Populus* (Bienkowski 2004).

General distribution: Europe (from Spain and France to southern part of Germany, Poland and Ukraine), N Africa (Morocco, Algeria).

Note: Faunal data of this species in Latvia are absent and its occurrence in local fauna is doubtful, therefore the species is excluded from the list of Latvian Coleoptera.

ALTICINAE NEWMAN, 1834

***Ochrosis ventralis* (Illiger, 1807)**

References: Pūtele 1968, 1970a, 1970b, 1971a, 1971b; Telnov et al. 1997; Telnov 2004.

Host plants: *Solanum*, *Anagallis*, *Pistacia* (Lopatin, Nesterova 2005).

General distribution: Europe (northwards to the Netherlands, SW Poland and S Belarus), Asia Minor, Caucasus, N Africa.

Note: Pūtele (1968) mentioned the species from single locality in Saldus d., Broceņi. I have not found specimen of *O. ventralis* in the collection of Pūtele [in the collection of Institute of Biology]. Perhaps, this record is based on misidentification and relate to *Lythraia salicariae* (Paykull, 1800). Occurrence of this species in the Latvian fauna is doubtful, therefore it is excluded from the list of Latvian Coleoptera.

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