

TO THE KNOWLEDGE OF LATVIAN CHRYSOMELINAE (COLEOPTERA: CHRYSOMELIDAE)

Andris Bukejs

Bukejs A. 2009. To the knowledge of Latvian Chrysomelinae (Coleoptera: Chrysomelidae). *Acta Biol. Univ. Daugavp.*, 9 (2): 181 - 195.

In the article faunistical, ecological and bibliographical information on leaf-beetles genera *Leptinotarsa*, *Colaphus*, *Gastrophysa*, *Phaedon*, *Hydrothassa*, *Prasocuris*, *Plagioderia*, *Linaeidea*, *Entomoscelis* and *Timarcha* of Latvian fauna is summarized and presented. A total of 985 specimens of these genera were reviewed. During the current research, the occurrence of 13 species of 8 genera was confirmed for the Latvian fauna. *Entomoscelis adonidis* (Pallas, 1771) and *Timarcha tenebricosa* (Fabricius, 1775) are deleted from the list of Latvian Coleoptera. One species, *Timarcha goettingensis* (Linnaeus, 1758) is mentioned for Latvia only in old bibliographical sources but not recorded in 20th centenary and recently. An annotated list of Latvian species is given.

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

Andris Bukejs. Institute of Systematic Biology, Daugavpils University, Vienības 13, Daugavpils, LV-5401, Latvia; carabidae@inbox.lv

INTRODUCTION

This article continues the study on leaf-beetles subfamily Chrysomelinae of the Latvian fauna (Bukejs 2009) and contains faunistical, ecological and bibliographical information on 10 genera: *Leptinotarsa* Chevrolat, 1836, *Colaphus* Dahl, 1823, *Gastrophysa* Chevrolat, 1836, *Phaedon* Dahl, 1823, *Hydrothassa* Thomson, 1866, *Prasocuris* Latreille, 1802, *Plagioderia* Chevrolat, 1836, *Linaeidea* Motschulsky, 1860, *Entomoscelis* Chevrolat, 1836 and *Timarcha* Latreille, 1829.

The subfamily Chrysomelinae comprises more than 130 genera and approximately 3000 species distributed throughout the world (Lopatin 1977).

Some species of Chrysomelinae are pests of cultivated plants (Kryzhanovskij 1974). In Latvia, *Leptinotarsa decemlineata* (Say, 1824) is mentioned as pest of potatoes (Smarods, Liepa 1956; Spuris 1974; Ozols 1963; Šmits, Spuris 1966; Čudare 1969; Pavasars 1972), *Phaedon cochleariae* (Fabricius, 1792) – as pest of cultivated Cruciferae (radish, cabbage etc.) (Tomsons 1940; Danka 1950; Smarods, Liepa 1956; Trauberga 1957; Ozols 1948, 1963), *Linaeidea aenea* (Linnaeus, 1758) – as pest of *Alnus incana* (Brammanis 1940; Danka 1950; Rupais 1959; Šmits, Spuris 1966; Spuris 1974; Pūtele 1977, 1984).

The aim of the current work is to summarise data on Chrysomelinae of the Latvian fauna. The

bibliographic information on these leaf-beetles genera in Latvia is summarized for the first time. New faunal data on 13 species are presented. The article also contains the annotated list of Latvian species.

MATERIAL AND METHODS

A total of 985 specimens of these genera were reviewed, representing 13 species and 8 genera of Chrysomelinae. The reviewed material is stored in the collection of the Daugavpils University Institute of Systematic Biology (DUBC) and in the private collection of the author.

The following identification keys were used for identification of specimens: Bienkowski 1999, 2004; Lopatin & Nesterova 2005; Mohr 1966; Warchałowski 2003. The systematics suggested by Silfverberg (2004). An interactive on-line manual (Borowiec 2004) and monograph (Lopatin & Nesterova 2005) were used for the nomenclature and synonymy.

Host plants are listed citing the monograph of Lopatin & Nesterova (2005). The general distribution of species is given according to Bienkowski (1999, 2004), Borowiec (2004), Hayashi *et al.* (1984), Lopatin (1977, 1986), Lopatin & Kulenova (1986), Lopatin & Nesterova (2005), Medvedev (1992), Medvedev & Dubeshko (1992) and Warchałowski (2003).

Classification of chorotypes follows as suggested by Taglianti *et al.* (1999). The transcript of chorotypes codes: OLA – Holarctic, ASE – Asiatic-European, SIE – Sibero-European, WPA – West Palaearctic, CEU – Centraleuropean.

The following information is given for each species: scientific name & author, published bibliographic sources for Latvia, faunal data (locality, collecting date, number of collected specimens in oval brackets, information on the habitat and the collector's name), host plants, phenology (Latvian data only; IV, VI, VII, VIII, IX, X – months from April to October respectively; in oval brackets – ten-day period),

general distribution of species and the chorotype code.

Explanations of the abbreviations used: d. – administrative district (system of administrative districts used in Latvia from 1991 to 2009), env. – environs, Isl. – Island, mts. – mountains, syn. – synonym, C – Central, S – South, N – North, E – East, W – West.

RESULTS AND DISCUSSION

During the current research, the occurrence of 13 species of 8 genera (*Leptinotarsa*, *Colaphus*, *Gastrophysa*, *Phaedon*, *Hydrothassa*, *Prasocuris*, *Plagioder* and *Linnaeidea*) was confirmed for the Latvian fauna.

Entomoscelis adonidis (Pallas, 1771) and *Timarcha tenebricosa* (Fabricius, 1775) are deleted from the list of Latvian Coleoptera.

Two species were not confirmed during this research. *Timarcha goettingensis* (Linnaeus, 1758) is mentioned only in old bibliographical sources (Precht 1818; Seidlitz 1872-1875, 1887-1891; Heyden 1903) and in the published catalogues of Latvian Coleoptera (Telnov *et al.* 1997; Telnov 2004) but not recorded in 20th centenary and recently. Its occurrence in the Latvian fauna needs confirmation. *Hydrothassa hannoveriana* (Fabricius, 1775) is not recorded in Latvia more than 30 years.

Ulanowski (1883) reported *Timarcha metallica* (Laicharting, 1781) and *Timarcha gibba* Hagenbach, 1825 [syn. *Timarcha globosa* H. Schaff.] for Livonia [“Inflant Polskich”, in present time it is territory of E Latvia (Latgale)]. *Timarcha metallica* (Laicharting, 1781) is generally distributed in mountains and foothills of C Europe and Balkans, but *Timarcha gibba* Hagenbach, 1825 is distributed in E Alps and N Dinaric Alps (Borowiec 2004; Warchałowski 2003) and their occurrence in the Latvian fauna is impossible. Therefore these species are not mentioned in the current list.

Timarcha pratensis (Duftschmid, 1825) was deleted in the check-list of Latvian Coleoptera (Telnov et al. 1997; Telnov 2004). The species is generally distributed in N Italy and Croatia (Warchałowski 2003). Its occurrence in the Latvian fauna is impossible, therefore this species is not mentioned in the current list.

Analysis of the chorotypes of Latvian species of studied genera of subfamily Chrysomelinae reveals that the range of chorotypes is rather wide: Holarctic – six species [*Leptinotarsa decemlineata* (Say, 1824), *Gastrophysa polygoni* (Linnaeus, 1758), *G. viridula* (DeGeer, 1775), *Phaedon armoraciae* (Linnaeus, 1758), *Prasocuris phellandrii* (Linnaeus, 1758) and *Plagiodera versicolora* (Laicharting, 1781)], Asiatic-European – one species [*Phaedon cochleariae* (Fabricius, 1792)], Sibero-European – three species [*Hydrothassa marginella* (Linnaeus, 1758), *H. hannoveriana* (Fabricius, 1775) and *Linnaeidea aenea* (Linnaeus, 1758)], West Palaearctic – two species [*Hydrothassa glabra* (Herbst, 1783) and *Prasocuris junci* (Brahm, 1790)], Centraleuropean – three species [*Colaphus sophiae* (Schaller, 1783), *Phaedon laevigatus* (Duftschmid, 1825) and *Timarcha goettingensis* (Linnaeus, 1758)].

LIST OF SPECIES OF THE LATVIAN FAUNA

CHRYSOMELIDAE

CHRYSOMELINAE LATREILLE, 1802

LEPTINOTARSA CHEVROLAT, 1836

L. decemlineata (Say, 1824)

References: Smarods, Liepa 1956; Ozols 1963; Šmits, Spuris 1966; Čudare 1969; Pavasars 1972; Pūtele 1974, 1982; Spuris 1974; Stiprais 1977; Stiprais, Varzinska 1985; Barševskis 1988, 1993, 2002; Telnov et al. 1997; Princovs 2000; Telnov 2004; Bukejs, Telnov 2007.

Examined material: 119 exx: Daugavpils d.: Bebrene, 07.X.2006 (2, leg. E.Rudāns); Butiški 12.VIII.2006 (6, agrocenosis, leg. A.Bukejs & M.Balalajkins); Daugavpils, 18.VIII.1996 (1, leg. A.Barševskis), 07.VI.2007 (1, leg. A.Barševskis),

Daugavpils, Esplanāde, 03.VI.2007 (1, leg. K.Barševska); Červonka, 29.VI.2008 (1, leg. N.Mihailova); Demene, 01.VI.2000 (7, leg. R.Cibuļskis); Eglaine, 27.VI.2008 (1, leg. T.Vasiljeva); Ilgas, Silene Nature Park, 29.IV-10.VII.2000 (1, leg. A.Rutka); Līksna, VIII.1993 (1, leg. R.Cibuļskis), 17.IX.1994 (1, leg. R.Cibuļskis), 03.VI.2000 (1, leg. R.Cibuļskis); Lociki, 31.VII.2008 (3, leg. A.Barševskis); Šarlote, 01.VI.2008 (1, leg. K.Aksjuta); Šedere, Straumēni house, 23-24.VI.2007 (1, leg. M.Murd), 01-02.IX.2007 (3, leg. M.Murd); Subate, 11.VIII.2000 (1, leg. I.Leiskina); Vecpils, 21.VIII.2006 (3, agrocenosis, leg. A.Bukejs); Vecstropi, 15.VII.2007 (6, agrocenosis of potato field, leg. A.Bukejs); Višķi, 10.VI.1986 (1, leg. A.Barševskis); Jēkabpils d.: Dignāja, 27.VII.2001 (1, leg. I.Leiskina); Dunava, 20.IX.1992 (2, leg. A.Barševskis), 24.VIII.1995 (1, leg. A.Barševskis), 11.VIII.2002 (1, leg. A.Barševskis), 10-18.VI.2006 (1, leg. K.Barševskis), 18-22.VI.2006 (10, leg. K.Barševska), 25.VI.2006 (2, leg. K.Barševska), 02-05.VI.2007 (5, leg. K.Barševska), 10-19.VI.2007 (3, leg. K.Barševska), 15.VII.2007 (1, leg. A.Barševskis), 01-08.VIII.2007 (1, leg. K.Barševska), 20-30.VIII.2007 (1, leg. K.Barševska), 30.IX.2007 (3, leg. A.Barševskis), VIII.2008 (1, leg. K.Barševska), 01-14.VIII.2008 (1, leg. K.Barševska), 16.VIII.2008 (4, leg. A.Barševskis); Rubeņi, VIII.1995 (1, leg. I.Leiskina); Jūrmala: Kauguri, 20.VIII.1995 (5, seashore, dunes, leg. A.Barševskis); Krāslava d.: Šķeltova, 20.VIII.1986 (4, leg. A.Barševskis), 02.V.1987 (1, leg. A.Barševskis), VIII.1991 (1, leg. A.Barševskis), 26.VIII.1992 (2, leg. A.Barševskis), 16.VII.1993 (9, leg. A.Barševskis), 03.IX.1995 (1, leg. A.Barševskis), 14.VIII.2006 (1, leg. A.Barševskis), 28.VI.2008 (2, leg. A.Barševskis); Liepāja d.: Liepāja, 11-13.VII.2006 (1, seashore, leg. A.Barševskis); Limbaži d.: Dunte, 16.VIII.2008 (1, leg. A.Barševskis); Salacgrīva, 27.VII.2007 (1, near the sea, leg. A.Barševskis), 17.VIII.2008 (1, Veczemu rock, leg. A.Barševskis); Preiļi d.: Jersika, Kurpnieki house, 23-24.VI.2006 (1, leg. A.Barševskis, K.Barševska), 05.IX.2007 (1, leg. K.Barševska, A.Barševskis); Pelēči, 09.VII.1997 (1, leg. I.Jurkjāne); Rušona, Aglona train station, 16-18.VIII.2007 (1, leg. J.Staskeviča); Tukums d.: Tukums, IX.2007 (1, leg. A.Barševskis); Talsi d.: Mazirbe, 26.VI.2006 (1, Baltic Sea dunes, leg. A.Barševskis, U.Valainis, A.Pankjāns).

Host plants: Solanaceae (*Solanum tuberosum*, *S. dulcamara*, *S. lycopersicum*, *Atropa belladonna*, *Hyoscyamus niger*). Pest of potatoes.

Phenology: IV, V, VI, VII, VIII, IX, X

General distribution: Introduced from N America, distributed in almost whole Europe, Caucasus. [OLA]

Note: Very common and widely distributed pest species in Latvia.

COLAPHUS DAHL, 1823

syn.: *Colaphellus* Weise, 1916

***C. sophiae* (Schaller, 1783)**

syn.: *erythropus* (Gmelin, 1790)

References: Ulanowski 1883 (*Colaspidema sophiae* Schall.); Müthel 1889; Seidlitz 1887-1891; Rathlef 1905; Pūtele 1974, 1980, 1981a (*Colaphellus*); Telnov et al. 1997; Telnov 2004.

Examined material: 2 exx: Daugavpils d.: Ilgas, Silene Nature Park, 06.VII.2001 (1, leg. G.Lociks); Jēkabpils d.: Dunava, 16-21.VI.2007 (1, leg. K.Barševska).

Host plants: *Brassica*, *Sinapis*, *Raphanus*, *Sisymbrium*.

Phenology: V, VI, VII

General distribution: N and SE Europe, Turkey, Armenia. [CEU]

Note: Very rare species in Latvia; known from four actual localities. According to the catalogue of Silfverberg (2004), it is mentioned for Denmark, Latvia and Lithuania. North border of main distribution area.

GASTROPHYSA CHEVROLAT, 1836

syn.: *Gastroidea* Hope, 1840

***G. polygoni* (Linnaeus, 1758)**

syn.: *elongata* Jolivet, 1951

References: Precht 1818 (*Chrysomela*); Seidlitz 1872-1875, 1887-1891; Ulanowski 1883 (*Gastroidea*); Heyden 1903; Rathlef 1905 (*Gastroidea*); Brammanis 1930 (*Gastroidea*); Priedītis 1958 (*Gastroidea*); Pūtele 1974, 1980, 1981, 1981a, 1982 (*Gastroidea*); Cinītis 1975 (*Gastroidea*); Stiprais 1977 (*Gastroidea*); Barševskis 1988, 1993, 2002; Telnov et al. 1997; Telnov 2004; Petrova et al. 2006; Bukejs, Telnov 2007.

Examined material: 133 exx: Aizkraukle d.: 6 kn N Aizkraukle, Aizkraukles purvs (bog) PNT, 01.VII.2008 (1, leg. A.Bukejs); Cēsis d.: Bērzkrogs, 03.VII.2006 (6, leg. A.Barševskis); Cēsis, 21.V.1995 (1, leg. R.Cibuļskis); Daugavpils d.: Bebrene, 14.V.2006 (1, leg. E.Rudāns); Butiški, 21.VIII.2006 (1, valley of the Daugava River, dry meadow, leg. A.Bukejs & M.Balalaikins); Daugavpils, Esplanāde, 07.VI.2007 (1, leg. A.Barševskis), 03.VII.2007 (2, leg. K.Barševska, A.Barševskis), 08.VIII.2007 (1, leg. K.Aksjuta, M.Murd), 05.V.2008 (4, leg. K.Barševska, A.Barševskis), Daugavpils, Mežciems, 19.VII.2007 (17, leg. K.Aksjuta, M.Murd), 01.VIII.2007 (12, leg. K.Aksjuta, M.Murd); Demene, 17.V.1994 (1, leg. A.Barševskis); Elerne, 24.V.2007 (1, leg. U.Valanis); Ilgas, Silene Nature Park, 06.VI.1994 (1, leg. A.Barševskis), 08.VI.1994 (1, leg. A.Barševskis), 09.V.1996 (3, leg. A.Barševskis), 25.V.1997 (1, leg. A.Barševskis), 29.IV-10.VII.2000 (1, leg. L.Bogdāne), 28-30.VI.2004 (1, leg. A.Barševskis); Līksna, 27.V.1995 (1, leg. R.Cibuļskis); Līksna parish, 2 km N Daugavpils, 04.V.2008 (1, inland dunes, edge of pine forest, leg. A.Bukejs); Līksna parish, Mežciems env., 15.VI.2006 (1, leg. A.Barševskis); Naujene, 07.VII.1995 (1, leg. A.Barševskis); Stropi, 13.V.2006 (1, leg. A.Bukejs), 03.VI.2006 (1, leg. A.Bukejs), 27.VI.2006 (1, leg. A.Bukejs), 13.V.2007 (1, agrocenosis, leg. A.Bukejs), 20.V.2007 (1, agrocenosis, leg. A.Bukejs), 26.V.2007 (1, agrocenosis, leg. A.Bukejs), 28.V.2007 (1, meadow, leg. A.Bukejs), 29.V.2007 (1, agrocenosis, leg. A.Bukejs), 05.VI.2007 (1, old clearing, leg. A.Bukejs), 08.VI.2008 (5, leg. A.Bukejs); Vabole, 27.V.1995 (1, leg. R.Cibuļskis), 24.VII.1995 (1, leg. R.Cibuļskis); Višķi, 27.V.1987 (1, leg. A.Barševskis), 03.VIII.1998 (3, leg. A.Barševskis); Jēkabpils d.: Dunava, 08.VIII.1994 (5, leg. A.Barševskis), 27.V.1995 (1, leg. A.Barševskis), 11-12.VIII.1998 (1, leg. A.Barševskis), 10-18.VI.2006 (1, leg. K.Barševska), 18-22.VI.2006 (1, leg. K.Barševska), 20-31.VII.2006 (1, leg. K.Barševska), 01-08.VIII.2006 (1, leg. A.Barševskis & K.Barševska), 03.VI.2007 (4, leg. A.Barševskis), 06-09.VI.2007 (1, leg. K.Barševska), 01-09.VIII.2007 (2, leg. K.Barševska), 09-10.VIII.2008 (2, leg. K.Barševska); Rubeņi, 15.VI.1997 (1, leg.

I.Leiskina), 27.IV.1999 (2, leg. I.Leiskina), 06.VII.1999 (1, leg. I.Leiskina), 17.VII.1999 (1, leg. I.Leiskina), 05.VIII.1999 (1, leg. I.Leiskina), 26.VII.2001 (1, leg. I.Leiskina), 23.VIII.2001 (2, leg. I.Leiskina); Zasa, 15.VIII.2000 (1, leg. I.Leiskina); Krāslava d.: Šķeltova, 18.V.1986 (4, leg. A.Barševskis), 28.VIII.1992 (1, leg. A.Barševskis); Ūdrīši, Zapolniki house, 30.VIII-01.IX.2007 (2, leg. M.Murd); Liepāja d.: Pape, 23-25.VI.1994 (1, seashore, dunes, leg. N.Savenkovs); Ludza d.: Šuškova, 19.VII.1989 (1, leg. A.Barševskis); Madona d.: Ošupe env., 2.5 km NE Lake Lubāns, 56°50'03"N 26°56'05"E, 06.VII.2008 (2, wet meadow and bank of the Aiviekste River, leg. M.Balalaikins, A.Bukejs); Preiļi d.: Rušona, Aglona train station, 16.VII.2007 (3, leg. J.Staskeviča); Lake Bicānu, 24.VI.2002 (1, leg. A.Barševskis); Jersika, Kurpnieki house, 23-24.VI.2006 (1, leg. A.Barševskis, K.Barševska); Pelēči, 24.VII.1997 (1, leg. I.Jurkjāne), 18.VIII.1997 (1, leg. I.Jurkjāne); Rēzekne d.: Dricāni (1, leg. anonymous); Ventspils d.: Jūrkalne, 28.VII.2005 (2, leg. A.Barševskis, A.Bukejs, U.Valainis); Moricsala Isl., Moricsala Nature Reserve, VII.2007 (1, leg. A.Barševskis).

Host plants: Polygonaceae (mostly on *Polygonum aviculare*, *Persicaria*, rarely on *Rumex*).

Phenology: V, VI, VII, VIII, IX, X(1)

General distribution: Europe, Caucasus, Siberia, Altai, Tuva, Kazakhstan, Central Asia (excluding Turkmenia and Pamir), Far East of Russia, N America. [OLA]

Note: Common species in Latvia.

***G. viridula* (DeGeer, 1775)**

syn.: *raphani* (Herbst, 1783)

References: Fleischer 1829 (*Chrysomela raphani* F.); Seidlitz 1872-1875, 1887-1891; Ulanowski 1883 (*Gastroidea*); Rathlef 1905 (*Gastroidea*); Lindberg 1932 (*Gastroidea*); Pūtele 1974 (*Gastroidea*); Stiprais 1977 (*Gastroidea*); Barševskis 1988, 1993, 2002; Telnov et al. 1997; Telnov 2004; Bukejs, Telnov 2007.

Examined material: 318 exx: Daugavpils d.: 2 km SE Apses, Daugavpils env., 10.VI.2006 (4, bank of āšō Daugava River, on *Rumex*, leg. A.Bukejs); Butišķi, 06.VIII.2001 (3, leg. G.Lociks), 12.VIII.2006. (1, valley of the Daugava River, leg.

A.Bukejs & M.Balalaikins), 27.V.2007 (2, valley of the Daugava River, leg. A.Bukejs), 02.VII.2007 (12, valley of the Daugava River, on *Rumex*, leg. A.Bukejs), 26.V.2008 (4, valley of the Daugava River, leg. A.Bukejs), 09.IX.2007 (3, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Daugavpils, intown, 28.V.2006 (7, sandy bank of the Daugava River, on *Rumex*, leg. A.Bukejs, M.Balalaikins), 08.VII.2007 (4, leg. K.Aksjuta, M.Murd), Daugavpils, Esplanāde, 24.VI.2006 (4, leg. A.Barševskis), 13.V.2007 (5, leg. K.Barševska, A.Barševskis), 03.VII.2007 (4, leg. K.Barševska, A.Barševskis), 05.V.2008 (2, leg. K.Barševska, A.Barševskis), Daugavpils, Mežciems, 19.VII.2007 (8, leg. K.Aksjuta, M.Murd); Dviete, 22.VIII.2006 (4, leg. A.Barševskis); Elerne, Muravki house, 26.VI.2005 (4, leg. A.Barševskis, K.Barševska), 24.V.2007 (3, leg. A.Pankjāns), 24.V.2007 (6, leg. U.Valainis), 31.V.2007 (6, leg. M.Murd), 13.IX.2007 (1, leg. A.Barševskis, K.Barševska); Ilgas, Silene Nature Park, 29.IV-10.VII.2000 (2, leg. L.Bogdāne), 29.IV-10.VII.2000 (1, leg. A.Rutka), 15.IV.2003 (1, leg. U.Valainis); Ilūkste, 17.IV.1993 (1, leg. A.Barševskis), 13.V.2007 (1, leg. A.Pankjāns); Kalkūni, 04.VI.1997 (1, leg. I.Leiskina); Krauja, 26.III-10.IV.2002 (1, leg. A.Barševskis); Kurcums, Lake Kurcums env., 06.VI.2008 (3, leg. A.Barševskis); Līksna, 14.VI.1994 (1, leg. R.Cibuļskis), 26.V.1995 (4, leg. R.Cibuļskis); Līksna parish, 2 km N Daugavpils, 17.V.2008 (1, inland dunes, edge of pine forest, leg. A.Bukejs); Lociki, 26.V.2001 (1, leg. G.Lociks), 06.VIII.2001 (1, leg. G.Lociks), 08.VIII.2001 (2, leg. G.Lociks); Lūbaste env., near Daugavpils beltway, 17.V.2007 (1, leg. A.Barševskis, K.Barševska); Naujene, 20.VI.1996 (1, Juzefova park, leg. R.Cibuļskis), 27.IV.2007 (14, Juzefova park, leg. K.Aksjuta, M.Murd), 29.IV.2008 (22, valley of the Daugava River, leg. A.Pankjāns, U.Valainis); Pilskalne, Pilskalnes Siguldiņa Nature Park, 09.V.2005 (1, leg. A.Barševskis); Saliēna parish, Daugavarsargu precipice, Daugavas Loki Nature Park, 17.V.2007 (2, leg. A.Pankjāns); Šedere, Straumēni house, 01-03.V.2008 (2, leg. M.Janovska); Slutišķi, 29.IV.2008 (1, bank of the Daugava River, leg. A.Pankjāns, U.Valainis); Stropi, 26-27.V.2006 (2, leg. A.Bukejs), 21.V.2007 (1, agrocenosis, leg. A.Bukejs), 20.VII.2007 (1, agrocenosis, on *Rumex*, leg. A.Bukejs), 27.IV.2008

(1, bank of Lake Lielais Stropu, leg. A. Bukejs); Tabore, Knupišķi house, 02.VII.2007 (1, bank of the Daugava River, leg. A. Pankjāns); Vabole, 1993 (1, leg. M. Jukšs), 08.V.1994 (1, leg. R. Cibuļskis), 28.V.1994 (1, leg. R. Cibuļskis), 10.VII.1994 (1, leg. R. Cibuļskis); Vasarģelišķi, Daugavas Loki Nature Park, 26.VI.2001 (1, leg. G. Lociks), 29.IV.2008 (6, Bondaru glen, leg. A. Pankjāns, U. Valainis); Vecsaliena parish, Orehovka env., Ververu precipice, Daugavas Loki Nature Park, 18.V.2008 (2, leg. G. Jurševska, P. Everts-Bunders); Zaļumi, 31.VII.2001 (1, leg. G. Lociks); Jēkabpils d.: Dignāja, 01.VIII.2005 (3, leg. A. Barševskis); Dunava, 21.VII.1993 (1, leg. A. Barševskis), 12.IX.1993 (1, leg. A. Barševskis), 17.VII.1995 (1, leg. A. Barševskis), 01.VI.2002 (2, leg. A. Barševskis), 01.V.2006 (1, leg. A. Barševskis), 10-18.VI.2006 (5, leg. K. Barševska), 18-22.VI.2006 (2, leg. K. Barševskis), 25-29.VI.2006 (2, leg. K. Barševska), 01-08.VII.2006 (1, leg. A. Barševskis), 15.VII.2006 (1, leg. A. Barševskis), 29.IV.2007 (1, leg. K. Barševska, A. Barševskis), 13.V.2007 (3, leg. K. Barševska, A. Barševskis), 02-05.VI.2007 (2, leg. K. Barševska), 03.VI.2007 (3, leg. A. Barševskis), 10-19.VI.2007 (1, leg. K. Barševska), 11-17.VII.2007 (1, leg. K. Barševska), 18.V.2008 (1, leg. A. Barševskis), 01.VI.2008 (2, leg. A. Barševskis), 04-20.VI.2008 (2, leg. K. Barševska), 22.VI.2008 (1, leg. A. Barševskis), 25-30.VI.2008 (3, leg. K. Barševska), 02.VII.2008 (1, leg. A. Barševskis), 23.VII.2008 (1, leg. A. Barševskis); Jēkabpils, Krustpils, 02.VII.2001 (1, leg. I. Leiskina), Jēkabpils, near Nereta road, 08.VIII.2008 (3, leg. A. Barševskis); Rubēni, 14.VII.1997 (1, leg. I. Leiskina), 26.VIII.1997 (1, leg. I. Leiskina), 16.VII.1998 (1, leg. I. Leiskina), 21.V.1999 (1, leg. I. Leiskina), 06.V.2000 (1, leg. I. Leiskina); Sudrabkalns vill., 11.VIII.2007 (1, bank of the Daugava River, leg. A. Bukejs); Vandāni, 16.VIII.2008 (4, bank of the Daugava River, leg. M. Balalaikins); Krāslava d.: Kaplava, 10.VII.1991 (1, leg. A. Barševskis); Piedruja, V.1993 (4, leg. A. Barševskis); Šķeltova, 09.V.1993 (1, leg. A. Barševskis); 2.3 km SSW Tartaks, Misjūni, 55°52'814"N 26°56'278"E, 09.V.2008 (3, valley of the Daugava River, leg. R. Cibuļskis); Ūdrīši, Zapoļņiķi house, 26-27.IV.2008 (1, leg. M. Janovska); Velnezers Nature Reserve,

11.VII.2008 (1, leg. A. Barševskis, V. Alekseev); Ludza d.: Mežvidi, 20.V.2008 (1, leg. M. Balalaikins); Madona d.: Jumurda, 19.VII.2008 (1, bank of Lake Lācīšu, leg. A. Bukejs); Madona d.: Ošupe env., 2.5 km NE Lake Lubāns, 56°50'03"N 26°56'05"E, 06.VII.2008 (2, wet meadow and bank of the Aiviekste River, leg. M. Balalaikins, A. Bukejs); Preiļi d.: Jersika, 16.IV.1993 (1, leg. A. Barševskis), 24.VI.2005 (4, leg. A. Barševskis), 04.V.2006 (1, leg. K. Barševska), 20.V.2006 (1, leg. K. Barševska), 26-28.V.2006 (9, leg. K. Barševskis), 04.VI.2006 (6, leg. K. Barševska), 06-07.VI.2006 (25, leg. A. Barševskis, K. Barševska), 23-24.VI.2006 (1, leg. A. Barševskis, K. Barševskis), 15.VII.2006 (2, leg. K. Barševska), 12.V.2007 (2, leg. A. Barševskis), 20.V.2007 (14, leg. A. Barševskis), 09-10.VI.2007 (1, leg. K. Barševska, A. Barševskis), 22-25.VI.2007 (1, leg. A. Barševskis), 04-05.VIII.2007 (1, leg. A. Barševskis), 02.V.2008 (2, leg. A. Barševskis), 13.VI.2008 (1, leg. A. Barševskis), 17.VI.2008 (2, leg. A. Barševskis).

Host plants: Polygonaceae (mostly on *Rumex*, rarely on *Rheum*, *Polygonum*).

Phenology: IV, V, VI, VII, VIII, IX, X

General distribution: Europe, Caucasus, Asia Minor, W and C Siberia, Altai, Kazakhstan; reported also from East Siberia, Korean Peninsula and N America (USA). Other subspecies occurs in Far East of Russia and Mongolia. [OAL]

Note: Very common and widely distributed species in Latvia.

PHAEDON DAHL, 1823

syn.: *Emmetrus* Motschulsky, 1860

***Ph. laevigatus* (Duftschmid, 1825)**

syn.: *grammicus* (Duftschmid, 1825); *sabulicola* Suffrian, 1851

References: Seidlitz 1887-1891; Rathlef 1905; Pūtele 1974; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004; Bukejs, Telnov 2007 (misidentification).

Examined material: 2 exx: Balvi d.: Kuprava, 19.V.1991 (2, leg. A. Barševskis).

Earlier report of this species "Daugavpils d.: Lociki" (Bukejs, Telnov 2007) was based on misidentification.

Host plants: Labiatae (mostly on *Galeopsis*).

Phenology: V

General distribution: C, S and SE Europe, Caucasus. [CEU]

Note: Very rare species in Latvia; known from few localities. According to the catalogue of Silfverberg (2004), it is mentioned for Estonia, Latvia and Lithuania. This species is also known from Belarus (Lopatin & Nesterova 2005).

***Ph. cochleariae* (Fabricius, 1792)**

syn.: *egenus* (Gyllenhal, 1827); *galeopsis* Letzner, 1849; *grammicus* Suffrian, 1851; *omissus* Sahlberg, 1838; *regnianum* Tottenham, 1941

References: Precht 1818 (*Chrysomela cochleariae*); Fleischer 1829 (*Chrysomela*); Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Tomsons 1940; Danka 1950; Smarods, Liepa 1956; Trauberga 1957; Priedītis 1958; Ozols 1948, 1963; Pūtele 1974, 1980, 1981, 1981a, 1982; Ciniņis 1975; Stiprais 1977; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004; Bukejs, Telnov 2007.

Examined material: 79 exx: Balvi d.: Kuprava, 10.VII.1991 (1, leg. A.Barševskis); Daugavpils d.: Butiški, 06.VIII.2001 (4, leg. G.Lociks); Daugavpils, 14.IV.1991 (1, leg. A.Barševskis), 02.V.1993 (1, city centr, bank of the Daugava River, leg. A.Barševskis), 08.VIII.2007 (2, city centr, leg. K.Aksjuta, M.Murd); Līksna parish, Mežciems env., 24.VI.1991 (1, leg. A.Barševskis); Elerne, Muravki house, 29.XII.2006 (2, leg. A.Barševskis, K.Barševska); Ilgas, Silene Nature Park, 30.VI.1989 (1, leg. A.Barševskis), 01.VII.1989 (2, leg. A.Barševskis), 29.IV-10.VII.2000 (1, leg. A.Rutka), 06-15.VI.2004 (1, leg. A.Barševskis), 01-03.VII.2008 (1, leg. N.Mihailova); Naujene, 13.VI.1989 (1, leg. A.Barševskis), 29.IV.2008 (1, valley of the Daugava River, leg. U.Valainis, A.Pamkjāns); Vabole, 05.IV.1994 (1, leg. R.Cibuļskis); Višķi, 02.V.1988 (1, leg. A.Barševskis), 22.V.1988 (1, leg. A.Barševskis), 11.VI.1989 (1, leg. A.Barševskis); Jēkabpils d.: Dunava, 06.XII.1992 (5, leg. A.Barševskis), I.1993 (2, leg. A.Barševskis), 11.IV.1993 (2, leg. A.Barševskis), 06.IV.1996 (1, forest, leg. A.Barševskis), 10-18.VI.2006 (2, leg. K.Barševska); Rubeņi, 06.VI.1999 (1, leg. I.Leiskina), 12.VI.1999 (2, leg. I.Leiskina), 25.VI.1999 (1, leg. I.Leiskina), 01.VII.1999 (4, leg. I.Leiskina), 20.VII.1999 (1, leg. I.Leiskina), 08.VII.2001 (1, leg. I.Leiskina); Krāslava d.:

Indrica, 12.VI.1989 (1, leg. A.Barševskis), 29.V.1991 (2, leg. A.Barševskis); Izvalta, 18.I.1987 (1, leg. A.Barševskis), 18.IV.1987 (1, leg. A.Barševskis); Piedruja, VII.1988 (1, leg. A.Barševskis), 16.VI.1989 (2, leg. A.Barševskis), 28.V.1991 (1, leg. A.Barševskis); Škeltova, 04.II.1989 (1, leg. A.Barševskis), 19.VII.1989 (2, leg. A.Barševskis), 29.VII.1989 (1, leg. A.Barševskis), 08.IV.1991 (1, leg. A.Barševskis), 09.V.1993 (1, leg. A.Barševskis); Ludza d.: Šuškova, 19.III.1989 (1, leg. A.Barševskis); Zaļesje, 19.VII.1989 (1, leg. A.Barševskis); Preiļi d.: Jersika, 1992 (4, leg. A.Barševskis), 24.VI.2005 (1, leg. A.Barševskis), 04.VI.2006 (1, leg. A.Barševskis), 23-24.VI.2006 (1, leg. A.Barševskis, K.Barševska); Talsi d.: Ances mežs un purvis (forest and bog) PNT, 27.VI.2006 (1, leg. U.Valainis); Sabile, 56°55'27"N 22°31'37"E, 19.VII.2007 (1, leg. A.Pankjāns, A.Soldāns, U.Valainis, A.Barševskis).

Host plants: Cruciferae. Pest of radish, cabbage, rutabaga etc.

Phenology: IV, V, VI, VII, VIII, IX

General distribution: Europe, Asia Minor, Caucasus, Siberia, Kazakhstan, Central Asia, Far East of Russia, China, Korean Peninsula; introduced also to N America. [ASE]

Note: Very common species in Latvia.

***Ph. armoraciae* (Linnaeus, 1758)**

syn.: *betulae* Küster, 1846

References: Fischer 1784, 1791 (*Chrysomela*); Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Trauberga 1957; Stiprais 1977; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004.

Examined material: 9 exx: Daugavpils d.: Silene Nature Park, Ilgas, 09.V.1996 (1, leg. A.Barševskis); Jēkabpils d.: Dunava, 06.XII.1992 (1, leg. A.Barševskis), 23.VI.1993 (1, leg. A.Barševskis); Rubeņi, 22.VI.1997 (1, leg. I.Leiskina), 30.VIII.1998 (1, leg. I.Leiskina), 08.VIII.2001 (2, leg. I.Leiskina); Krāslava d.: Skaiste, 12.XI.2006 (1, leg. S.Ungurs); Škeltova, 25.VI.1989 (1, leg. A.Barševskis).

Host plants: Cruciferae, Ranunculaceae, Polygonaceae, Scrophulariaceae (*Veronica*).

Phenology: V, VI, VII, VIII

General distribution: Europe, Asia Minor, Caucasus, Siberia, Kazakhstan (mts.), Central

Asia (mts.), Mongolia, Far East of Russia, N America (Canada, USA). [OLA]

Note: Rather infrequent species in Latvia.

HYDROTHASSA THOMSON, 1866

SUBGENUS AGROSTITHASSA JACOBSON, 1921

***H. glabra* (Herbst, 1783)**

syn.: *aucta* Fabricius, 1787; *egena* Suffrian, 1851 non Gyllenhal, 1827

References: Fleischer 1829 (*Chrysomela aucta* F.); Seidlitz 1872-1875 (*aucta* F.), 1887-1891 (*Prasocuris*); Rathlef 1905 (*aucta* F.); Stiprais 1977; Pūtele 1980, 1981a; Barševskis 1993; Telnov et al. 1997; Telnov 2004.

Examined material: 1 ex.: Daugavpils d.: Ilgas, Silene Nature Park, 06.VI.1994 (1, leg. A.Barševskis).

Host plants: *Ranunculus* (Ranunculaceae).

Phenology: V, VI

General distribution: Europe, N-W Africa (Morocco), W Siberia. [WPA]

Note: Very rare species in Latvia; known from three localities.

SUBGENUS HYDROTHASSA S.STR.

***H. marginella* (Linnaeus, 1758)**

References: Precht 1818 (*Chrysomela*); Seidlitz 1872-1875, 1887-1891 (*Prasocuris*); Rathlef 1905; Trauberga 1957; Pūtele 1974; Stiprais 1977; Barševskis 1988, 1993, 2002; Telnov et al. 1997; Telnov 2004.

Examined material: 41 exx: Balvi d.: Kuprava, 19.V.1991 (1, leg. A.Barševskis); Daugavpils d.: Bebrene, 05.V.2006 (1, leg. E.Rudāns), 07.V.2006 (1, leg. E.Rudāns), 18.VI.2006 (2, leg. Rudāns), 24.VI.2006 (1, leg. E.Rudāns); Ilgas, Silene Nature Park, 09.V.1995 (1, leg. A.Barševskis), 11.V.1996 (1, leg. R.Cibuļskis); Ilūkste, 13.V.2007 (1, leg. A.Pankjāns); 2.8 km S Naujene, 55°54'710"N 29°43'51"E, 09.V.2008 (1, leg. R.Cibuļskis); Pilskalne, Pilskalnes Nature Park, 16.V.1991 (1, leg. J.Soms), 09.V.2005 (2, leg. A.Barševskis); Stropi, 05.V.2008 (1, leg. A.Bukejs); Vābole, 12.III.1994 (1, leg. R.Cibuļskis), 22.II.1997 (2, leg. R.Cibuļskis); Višķi, 29.II.1987 (1, leg. A.Barševskis), 01.III.1987 (1, leg. A.Barševskis), 08.III.1987 (6, leg. A.Barševskis), 22.III.1987 (1, leg. A.Barševskis), 18.I.1993 (1, leg. A.Barševskis); Jēkabpils d.: Rubeņi, 29.V.1997 (1,

leg. I.Leiskina), 21.IV.2000 (1, leg. I.Leiskina); Zasa, 30.X.1998 (1, leg. I.Leiskina); Krāslava d.: Izvalta, Murāni house, 21.VIII.1992 (1, bog, leg. A.Barševskis); Šķeltova, 13.III.1993 (2, leg. A.Barševskis), 09.V.1993 (1, leg. A.Barševskis), 26.IX.2006 (1, leg. A.Barševskis, K.Barševska); Preiļi d.: Jersika, Kurpnieki house, 1992 (1, leg. A.Barševskis), 10.III.1993 (1, leg. A.Barševskis), 20.V.1995 (1, wet meadow, leg. A.Barševskis), 23-24.VI.2006 (1, leg. A.Barševskis, K.Barševska), 25.V.2007 (1, leg. A.Barševskis); Rēzekne d.: Rēzekne, Nakotnes Str. 17/19, 18.V.2008 (1, leg. J.Burovs).

Host plants: Ranunculaceae (*Caltha*, *Ranunculus*).

Phenology: IV(3), V, VI, VII, VIII, IX

General distribution: Europe (excluding S), Siberia, Altai, Kazakhstan, Far East of Russia. [SIE]

Note: Rather infrequent species in Latvia.

***H. hannoveriana* (Fabricius, 1775)**

syn.: *ranunculi* (Herbst, 1783)

References: Fleischer 1829 (*Chrysomela*); Seidlitz 1887-1891 (*Prasocuris*); Rathlef 1905; Stiprais 1977; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: Ranunculaceae (*Caltha palustris*, *Ranunculus*).

Phenology: V

General distribution: Europe (excluding S), Siberia, Far East of Russia. [SIE]

Note: Very rare species in Latvia; known only from single locality in C Latvia (Stiprais 1977).

PRASOCURIS LATREILLE, 1802

syn.: *Hellodes* Redtenbacher, 1845

***P. junci* (Brahm, 1790)**

syn.: *beccabungae* (Illiger, 1794)

References: Seidlitz 1872-1875 (*beccabungae* Ill.), 1887-1891; Rathlef 1905; Barševskis 1993; Telnov et al. 1997; Leiskina 1999; Telnov 2001, 2004; Bukejs, Telnov 2007.

Examined material: 18 exx: Daugavpils d.: Lociki, 05.VIII.2001 (1, leg. G.Lociks); Jēkabpils d.: Dunava, 23.VI.1993 (14, leg. A.Barševskis); Rubeņi, 17.V.1997 (1, leg. I.Leiskina), 03.V.1998 (1, leg. I.Leiskina); Liepāja d.: Pape, 23-25.VI.1994 (1, seashore, dunes, leg. N.Savenkovs).

Host plants: *Veronica*, *Sium*. In the literature (Bieńkowski 2004), *Cicuta* and *Oenanthe* are also mentioned as host plants.

Phenology: V, VI, VII, VIII

General distribution: Europe, N Africa, Caucasus, Asia Minor. [WPA]

Note: Rare species in Latvia.

***P. phellandrii* (Linnaeus, 1758)**

References: Precht 1818 (*Helodes*); Seidlitz 1872-1875, 1887-1891; Ulanowski 1883; Rathlef 1905; Spuris 1953; Trauberga 1957; Stiprais 1977; Barševskis 1988, 1993, 2002; Telnov et al. 1997; Telnov 2004.

Examined material: 21 exx: Daugavpils d.: Daugavpils, 29.III.1994 (1, leg. A.Barševskis); Ilgas, Silene Nature Park, 08.VI.1994 (1, leg. A.Barševskis), 15.V.1993 (1, leg. A.Barševskis), 25-30.V.1998 (1, leg. A.Barševskis); Līksna, 27.V.1995 (1, leg. R.Cibuļskis); Vabole, VIII.1993 (2, leg. R.Cibuļskis); Višķi, 1987 (1, leg. A.Barševskis), 27.V.1987 (2, leg. A.Barševskis); Jēkabpils d.: Dunava, 23.VI.1993 (1, leg. A.Barševskis), 25.VII.1993 (2, leg. A.Barševskis); Jūrmala: Ķemeri, 11.VII.1991 (1, leg. A.Barševskis); Krāslava d.: Peipiņi, 4 km W Šķeltova, 27.VIII.1989 (2, along Lake Aksenovas, leg. A.Barševskis); Liepāja d.: Pape, 06.VI.1996 (1, leg. N.Savenkovs); Madona d.: Mārciena, 07.VII.2006 (1, bank of the Arona River, leg. A.Pankjāns, A.Barševskis); Preiļi d.: Jersika, 22.V.2005 (1, leg. A.Barševskis); Rēzekne d.: Lukna, 25.IV.1993 (1, leg. A.Barševskis); Talsi d.: Slītere National Park, Davida pļavas (meadows), 26.VI.2002 (1, leg. A.Barševskis).

Host plants: Umbelliferae (*Sium*, *Cicuta*, *Oenanthe*).

Phenology: IV, V, VI, VII, VIII

General distribution: Europe, Asia Minor, Siberia, Kazakhstan, Mongolia, Far East of Russia, N America. [OLA]

Note: Rather infrequent species in Latvia.

***PLAGIODERA* CHEVROLAT, 1836**

syn.: *Plagiosterna* Motschulsky, 1860

***P. versicolora* (Laicharting, 1781)**

References: Seidlitz 1872-1875, 1887-1891 (*Plagioderia armoraciae* L.); Ulanowski 1883; Rathlef 1905; Pūtele 1974, 1981, 1981a, 1982, 1984;

Stiprais 1977; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004; Bukejs, Telnov 2007.

Examined material: 130 exx: Aizkraukle d.: Vāle, 12.VIII.2008 (1, leg. A.Barševskis); Balvi d.: Kuprava, 19.V.1991 (1, leg. A.Barševskis); Cēsis d.: Dzērbene, 03.VII.2006 (1, leg. A.Barševskis, U.Valainis, A.Pankjāns); Daugavpils d.: Daugavpils, Križi, 20.V.2001 (2, leg. G.Lociks), Daugavpils, Mežciems env., 01.VI.2008 (2, edge of forest, on *Salix*, leg. A.Bukejs); Ilgas, Silene Nature Park, 03.VII.1994 (1, leg. A.Barševskis), 30.VI.1995 (2, leg. A.Barševskis), 30.V.1996 (1, leg. A.Barševskis), 06.VI.1996 (2, leg. A.Barševskis), 18.VI.1996 (4, leg. A.Barševskis), 11.IX.1997 (1, leg. A.Barševskis), 29.IV-10.VII.2000 (2, leg. A.Rutka), VI-VII.2000 (6, leg. I.Haka & G.Hļebnaja), 15.VI.2001 (1, leg. G.Lociks), 06-15.VI.2004 (1, leg. A.Barševskis), 27-28.VI.2005 (1, leg. A.Barševskis), 30.VI.2005 (1, leg. A.Barševskis), 04.VII.2005 (1, leg. A.Barševskis), 08.VII.2005 (2, leg. A.Barševskis), 10.V.2006 (1, leg. A.Barševskis), 28-29.VI.2007 (1, leg. A.Barševskis), 17-20.VI.2008 (1, leg. V.Krone, J.Staskeviča); Lociki, 26.V.2001 (1, leg. G.Lociks); Stropi, 03.VI.2006 (1, leg. A.Bukejs), 09.VI.2006 (9, leg. A.Bukejs), 25.V.2007 (11, old clearing, leg. A.Bukejs), 02.VII.2008 (1, clearing, leg. A.Bukejs); Višķi, 25.V.1987 (8, leg. A.Barševskis); Jēkabpils d.: Dunava, 21.VII.1996 (1, leg. A.Barševskis), 28.VII.1997 (1, leg. I.Leiskina), 15.VII.2006 (6, leg. A.Barševskis); Jēkabpils, near Jēkabpils hospital, 13.V.2006 (4, leg. K.Barševska, A.Barševskis); Klaucānu & Priekulānu PNT, 29.VIII.2005 (1, leg. A.Barševskis); Rubēņi, 30.VII.1997 (1, leg. I.Leiskina); Viesīte, 08.VIII.2008 (1, clearing, leg. A.Barševskis); Gulbene d.: Gulbītis env., Lake Ušūrs, 11.VIII.2005 (2, leg. A.Barševskis); Krāslava d.: Grāveri, bank of Lake Čertoks, 04.V.2008 (1, leg. A.Barševskis); Kuldīga d.: Rudbārži, 09.VIII.2004 (2, leg. A.Barševskis); Madona d.: Krustkalnu Nature Reserve, 11.VIII.2005 (3, leg. A.Barševskis); Preiļi d.: Jersika, Kurpnieki house, 24.VI.2005 (11, leg. A.Barševskis), 23-24.VI.2006 (22, leg. A.Barševskis, K.Barševska); Līvāni, 30.V.2005 (1, leg. A.Barševskis); Rēzekne d.: Lake Zolvu env., 12.VI.2008 (1, leg. A.Barševskis, U.Valainis); Talsi d.: Slītere National Park, Zilie Kalni (hills), 11.VI.2005 (1, leg. A.Barševskis); Tukums d.

Ķemeri National Park, 26.VI.2006 (1, leg. A.Pankjāns, A.Barševskis, U.Valainis); Valka d.: Strenči, 03.VII.2006 (3, leg. A.Barševskis, U.Valainis, A.Pankjāns).

Host plants: *Salix*, *Populus*.

Phenology: V, VI, VII, VIII, IX

General distribution: Europe, Siberia, Kazakhstan, Central Asia, Far East of Russia, Japan, N America. [OLA]

Note: Very common species in Latvia.

LINAEIDEA MOTSCHULSKY, 1860

syn.: *Plagiosterna* Motschulsky, 1860; *Melasoma* Stephens, 1831 partim

***L. aenea* (Linnaeus, 1758)**

syn.: *coeruleoviolacea* (DeGeer, 1775)

References: Fischer 1784, 1791 (*Chrysomela*); Groschke 1805 (*Chrysomela*); Precht 1818 (*Chrysomela*); Seidlitz 1872-1875, 1887-1891 (*Lina aenea* L.); Ulanowski 1883 (*Melasoma*); Sintenis 1900 (*Lina aenea* L.); Rathlef 1905 (*Melasoma*); Brammanis 1940 (*Melasoma*); Danka 1950; Trauberga 1957 (*Melasoma*); Rupais 1959 (*Melasoma*); Šmits, Spuris 1966 (*Melasoma*); Spuris 1974 (*Melasoma*); Pūtele 1974, 1977, 1980, 1981, 1981a, 1984 (*Melasoma*); Stiprais 1977 (*Melasoma aenea* L.); Barševskis 1988, 1993 (*Chrysomela*), 2002; Telnov et al. 1997; Telnov 2004; Bukejs, Telnov 2007.

Examined material: 112 exx: Aizkraukle d.: 6 km N Aizkraukle, Aizkraukles purvs (bog) PNT, 01.VII.2008 (1, leg. A.Bukejs), 06.VIII.2008 (2, on *Alnus incana*, leg. A.Bukejs, M.Balalaikins); Balvi d.: Kuprava, 19.V.1991 (2, leg. A.Barševskis); Cēsis d.: Drabeši, 02.VII.1997 (1, leg. I.Leiskina); Daugavpils d.: Bebrene, 13.VI.2006 (1, leg. E.Rudāns); Daugavpils, Vienības Str., 27.XI.2008 (1, leg. D.Pilāte); Ilgas, Silene Nature Park, 13.VI.1985 (3, leg. A.Barševskis), 17.VI.1987 (1, leg. A.Barševskis), 02.III.1988 (1, leg. A.Barševskis), 1993 (1, leg. R.Cibuļskis), 18.VI.1993 (1, leg. A.Barševskis), 10.VII.1993 (1, leg. A.Barševskis), 05.VI.1994 (1, leg. A.Barševskis), 03.VII.1995 (1, leg. A.Barševskis), 11.V.1996 (2, leg. R.Cibuļskis), 30.V.1996 (6, leg. A.Barševskis), 18.VI.1996 (1, leg. A.Barševskis), 25-30.VI.1998 (1, leg. A.Barševskis), 10.VI.2001 (1, leg. G.Lociks), 18.V.2005 (8, leg. A.Barševskis), 30.VI.2005 (1, leg. A.Barševskis), 05-10.VI.2006

(2, leg. M.Verdenfelde), 17-20.VI.2008 (1, leg. V.Krone, J.Staskeviča); Šedere, Straumēni house, 09.XII.2007 (1, leg. M.Janovska), 01-03.V.2008 (1, leg. M.Janovska); Slutišķi, 12.VI.1987 (1, leg. A.Barševskis); Zaļumi, 31.VII.2001 (1, leg. G.Lociks), 03.VIII.2001 (1, leg. G.Lociks); Jēkabpils d.: Dignāja, 28.VII.1999 (1, leg. I.Leiskina); Klaucānu & Preikulānu PNT, 12.VIII.2005 (1, leg. A.Bukejs); Rubeņi, 17.VIII.1997 (1, leg. I.Leiskina), 02.VIII.1999 (1, leg. I.Leiskina); Zasa, 29.VII.1999 (1, leg. I.Leiskina), 19.VI.2000 (2, leg. I.Leiskina); Jūrmala: Kūdra, 05.VI.2006 (1, leg. A.Titovs); Kuldīga d.: Rudbārži, 09.VIII.2004 (2, leg. A.Barševskis); Liepāja d.: Durbe, 05.IX.2008 (1, leg. R.Orlovskis, A.Barševskis); Liepāja d.: Pape, 06.VI.1996 (1, leg. N.Savenkovs); Madona d.: Krustkalni Nature Reserve, 11.VIII.2005 (2, leg. A.Barševskis), 07.VII.2006 (1, leg. A.Pankjāns, A.Barševskis, E.Rudāns); Ogre d.: Ķegums, left bank of the Daugavpils River, 13.VII.2006 (3, leg. A.Barševskis, K.Barševska); Ogre d.: the Ņeģa River connection with the Daugava River, 29.VI.2006 (1, leg. A.Barševskis); Preiļi d.: Jersika, Kurpnieki house, 26-28.V.2006 (1, leg. K.Barševska); Rēzekne d.: Feimaņi, bank of Lake Rušons, 02.VI.2007 (1, leg. A.Barševskis); Talsi d.: Ances meži un purvi (forests and bogs) PNT, 27.VI.2006 (4, leg. A.Barševskis); Mazirbe, 05.VI.2002 (1, leg. A.Barševskis), 26.VI.2006 (2, Baltic Sea dunes, seashore, leg. A.Barševskis, U.Valainis, A.Pankjāns); Slītere, 03.VII.1997 (1, leg. R.Cibuļskis), VI.2002 (1, leg. A.Barševskis); Slītere National Park, Zilie Kalni (hills) and Davida Pļavas (meadows), VII.2003 (5, leg. A.Barševskis), 11.VI.2005 (11, leg. A.Barševskis), 22.VIII.2008 (9, leg. A.Barševskis); Valka d.: Launakalne parish, Mežole, 15.VII.2005 (1, leg. J.Donis), 10.VI.2006 (1, leg. J.Donis); Ventspils d.: Moricsala Isl., Moricsala Nature Reserve, 03.IX.2004 (1, leg. U.Valainis), 29.V.2006 (1, leg. A.Barševskis), 29.V.2006 (3, leg. E.Rudāns), 29.VI.2006 (1, window trap, leg. A.Barševskis), 15.VII.2008 (1, leg. A.Barševskis), 15.VII.2008 (1, leg. V.Alekseev, A.Pavlova); Muižnieki, 57°28'20"N 21°43'19"E, 29.VII.2005 (1, leg. A.Barševskis, A.Bukejs, U.Valainis).

Host plants: *Alnus* (especially on *A. incana*).

Phenology: V, VI, VII, VIII, IX(1)

General distribution: Europe, Siberia, E Kazakhstan, Mongolia, Far East of Russia, Japan. [SIE]

Note: Very common species in Latvia.

ENTOMOSCELIS CHEVROLAT, 1836

(-) ***E. adonidis* (Pallas, 1771)**

syn.: *trilineata* (Fabricius, 1777); *dorsalis* Fabricius, 1777

References: Precht 1818 (*Chrysomela*); Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Trauberga 1957; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: Cruciferae, Ranunculaceae.

General distribution: S and E Europe, Caucasus, Asia Minor (Syria), Siberia, Afghanistan, N Iran, Kazakhstan, Central Asia, Mongolia, Far East of Russia, N China. [ASE]

Note: The species is mentioned only in old bibliographical source (Precht 1818; Seidlitz 1872-1875, 1887-1891). Actual faunal data on this species in Latvia is absent. Therefore it is deleted from the list of Latvian Coleoptera. According to the catalogue of Silfverberg (2004), the species is mentioned for Latvia, Lithuania and Karelia (as introduced species). In Belarus it is not known (Lopatin, Nesterova 2005). The nearest known localities of this species are in S Lithuania (V. Tamutis pers. comm.), S Poland and Ukraine (A. Warchałowski pers. comm.).

TIMARCHA LATREILLE, 1829

SUBGENUS *TIMARCHA* S.STR.

(-) ***T. tenebricosa* (Fabricius, 1775)**

References: Precht 1818 (*Chrysomela*); Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), *Galium*, *Rubia* and *Asperula* are mentioned as host plants.

General distribution: England, W and S Europe (from N Spain to Bulgaria), Crimea, Asia Minor, Caucasus. [CEU]

Note: The species is mentioned only in old bibliographical source (Precht 1818) and in the published catalogues of Latvian Coleoptera (Telnov et al. 1997; Telnov 2004). Faunal data on this species in Latvia is absent. The nearest known localities of this species are in Romania

and Crimea. Its occurrence in Latvian fauna is impossible. Therefore this species is deleted from the list of Latvian Coleoptera.

SUBGENUS *TIMARCHOSTOMA* MOTSCHULSKY, 1860

***T. goettingensis* (Linnaeus, 1758)**

syn.: *violaceonigra* Degeer, 1775; *coriaria* Laicharting, 1781 nec Oliver, 1807

References: Precht 1818 (*Chrysomela coriaria*); Seidlitz 1872-1875 (*Timarcha coriaria* F.), 1887-1891 (*Timarcha coriaria* Laich.); Heyden 1903; Rathlef 1905 (*violaceonigra* DeGeer); Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), *Galium* and *Asperula* are mentioned as host plants.

Phenology: no data.

General distribution: S, W and C Europe (northward to SW Poland and Romania). [CEU]

Note: In Latvia this species is not recorded more than 100 years. Heyden (1903) mentioned this species from SE environs of Rīga, ca. 50 verst upstream the Daugava [Dūna] rivers. Record needs confirmation. According to the catalogue of Silfverberg (2004), the species is mentioned for Latvia and Lithuania. In Lithuania, the species is known from single old record in Palanga (NW Lithuania) (V. Tamutis pers. comm.). It is also known from Belarus (Lopatin & Nesterova 2005).

ACKNOWLEDGMENTS

The author is grateful to Vitalij Alekseev, Anastasiya Pavlova (Kaliningrad, Russia), Kristīna Aksjuta, Arvīds Barševskis, Raimonds Cibulskis, Marina Janovska, Ainārs Pankjāns, Jāna Staskeviča, Uldis Valainis (Daugavpils University Institute of Systematic Biology, Daugavpils, Latvia), Maksims Balalaikins (Rēzekne, Latvia), Nikolajs Savenkovs (Rīga, Latvia), Aleksandrs Titovs (Rīga, Latvia), Katrīna Barševska, Iveta Leiskina (Daugavpils, Latvia) and the students of Daugavpils University for the presented material.

Special thanks are given to Andrzej Warchałowski (Wrocław, Poland), Dmitry Telnov (The Entomological Society of Latvia, Rīga) and

Vytautas Tamutis (Kaunas, Lithuania) for valuable comments and constructive advice.

REFERENCES

- Barševskis A. 1988. Faunal investigations on beetles in various habitats of the south-eastern part of Latvia. In: *Ekologischeskoe vospitanie v srednej i vysshej shkole*. Daugavpils, DPI: 63-75. [in Russian].
- Barševskis A. 1993. *The Beetles of Eastern Latvia*. Saule, Daugavpils: 1-221. [in Latvian, English abstract]
- Barševskis A. 2002. Vaboļu kārta (Coleoptera). In: Barševskis A., Savenkovs N., Evarts-Bunders P., Daniele I., Pētersons G., Pilāts V., Zviedre E., Pilāte D., Kalniņš M., Vilks K., Poppels A. (eds.) *Silenes dabas parka fauna, flora un veģetācija*. Baltijas Koleopteroloģijas institūts, Daugavpils: 37-60. [in Latvian]
- Bieńkowski A. O. 1999. *Guide to the identification of leaf-beetles (Coleoptera Chrysomelidae) of the Eastern Europe*. Moscow, Tehpoligrafcentr: 1-204. [in Russian, English summary]
- Bieńkowski A. O. 2004. *Leaf-beetles (Coleoptera: Chrysomelidae) of the Eastern Europe. New key to subfamilies, genera and species*. Moscow: Mikron-print: 1-278.
- Borowiec L. 2004. The Leaf Beetles (Chrysomelidae) of Europe and the Mediterranean Subregion (Checklist and Iconography). <http://www.biol.uni.wroc.pl/cassidae/European%20Chrysomelidae/index.htm>. Last modification: 18 September 2008.
- Brammanis L. 1930. Zur Kenntnis der Coleopterenfauna des Saatkampesschutzgrabens in der Oberforstei Intschukalms (Hinzenberg). *Folia zoologica et hydrobiologica*, 2 (1): 129-135.
- Brammanis L. 1940. Latvijas mežu kaitēkļu apskats. *Mežkopja darbs un zinātne*, 1-2 (1940): 257-340. [in Latvian]
- Bukejs A. 2009. On Latvian Chrysomelinae (Coleoptera: Chrysomelidae). 1. Genus *Phratora* Chevrolat, 1836. *Acta Zoologica Lituonica* 19 (4).
- Bukejs A., Telnov D. 2007. Materials about the fauna of beetles (Insecta: Coleoptera) of Naujene rural municipality (Daugavpils district, Latvia). Part 2. *Acta Biologica Universitatis Daugavpiliensis*, 7(2): 191-208.
- Cinītis R. 1975. Skrejvaboles krustziežu kultūru agrocenozēs. *Latvijas Entomologs*, 17: 7-26. [in Latvian]
- Čudare Z. P. [Чударе З.П.] 1969. *Гистологические основы прогнозирования массового появления колорадского жука (Leptinotarsa decemlineata Say)*. Автреферат диссертации на соискание учёной степени кандидата биологических наук. Рига. 1-32.
- Danka L. 1950. *Derīgas un kaitīgas vaboles*. Rīga, Latvijas Valsts Izdevniecība: 1-117. [in Latvian]
- Fischer J. B. 1784. *Zusätze zu seinem „Versuch einer Naturgeschichte von Livland“*. In: *J.J.Febers Anmerkungen zur physischen Erdbeschreibung von Kurland, nebst J.B.Fischers Zusätzen zu einem Versuch einer Naturgeschichte von Livland*. Riga: XVI+305.
- Fischer J. B. 1791. *Versuch einer Naturgeschichte von Livland*. 2. Auflage. Königsberg: XXIV+826.
- Fleischer J. 1829. Beitrag zur Fauna der Ostseeprovinzen. Verzeichnis derjenigen Käfer, die soweit mir bekannt ist, als einheimische bis hierzu noch nicht aufgeführt sind. *Die Quatember*,

- Kurlandische Gesellschaft für Literatur und Kunst*, 1 (2): 9-19.
- Groschke J. 1805. Merkwürdigkeiten aus dem Tierreich. In: E. Derschau, P. Keyserlingk *Beschreibungen der Provinz Kurland*. Mitau: 119-176.
- Hayashi M., Morimoto K., Kimoto Sh. (eds.) 1984. *The Coleoptera of Japan in Color*. Volume IV. Japan, Hoikusha Publishing Co: 1-407. [in Japanese]
- Heyden L. 1903. Beiträge zur Coleopteren-Fauna der nordwestlichen Teile Russlands. *Korrespondenzblatt des Naturforschervereins zu Riga*, 46: 18-35.
- Kryzhanovskij O. L. (ed.) 1974. *Insects and ticks – the pests of agricultural cultures. II. Coleoptera*. Leningrad, Nauka: 1-336. [in Russian]
- Leiskina I. 1999. Materiāli par Latvijas faunai retām un mazpazīstamām vaboļu (Coleoptera) sugām. *Daugavpils Pedagoģiskās universitātes 7. Ikgadējās zinātniskās konferences Rakstu krājums A9 (Dabaszinātnes, dabaszinātņu didaktika, matemātika, datorzinātne)*. Daugavpils, DPU, Saule: 98-99. [in Latvian]
- Lindberg H. 1932. Käfer, gesammelt in Lettland 1931. *Folia zoologica et hydrobiologica*, 4 (2): 163-166.
- Lopatin I. K. 1977. *Leaf-beetles (Chrysomelidae) of Central Asia and Kazakhstan*. Leningrad, Nauka: 1-270. [in Russian]
- Lopatin I. K. 1986. *Leaf-beetles of Belarus and eastern Baltia*. Minsk, Vishejskaja shkola: 1-131. [in Russian]
- Lopatin I. K., Kulenova K. Z. 1986. *Leaf-beetles (Coleoptera, Chrysomelidae) of Kazakhstan*. Alma-Ata, Nauka: 1-200. [in Russian]
- Lopatin I. K., Nesterova O. L. 2005. *Insecta of Byelarus: Leaf-Beetles (Coleoptera, Chrysomelidae)*. Minsk, Tehnoprint: 1–293. [in Russian]
- Medvedev L. N. 1992. Leaf beetles – Chrysomelidae. In: *Keys to Insects of Far East of SSSR. 3. Coleoptera. 2*. Sankt-Petersburg, Nauka: 533-602. [in Russian]
- Medvedev L. N., Dubeshko L. N. 1992. *Keys to leaf-beetles of Siberia*. Irkutsk, University of Irkutsk. Irkutsk, izd-vo Irkutskogo Universiteta: 1-224. [in Russian]
- Mohr K. H. 1966. Chrysomelidae. In: Freude H., Harde K., Lohse G. *Die Käfer Mitteleuropas. Band 9, Cerambycidae, Chrysomelidae*. Goecke&Evers, Frefeld: 1-299.
- Müthel C. 1889. Neue Käfer aus Südlivland. *Korrespondenzblatt des Naturforschervereins zu Riga*, 32: 6-8.
- Ozols E. 1948. *Lauksaimniecības entomoloģija*. Rīga, Latvijas Valsts izdevniecība. (in Latvian)
- Ozols E. 1963. *Agricultural entomology*. 2 ed. Latvian State Publishing House, Rīga: 1-512. (in Latvian)
- Pavasars J. 1972. Cīņa ar kartupeļu lapgrazi jāturpina. *Dārzs un Drava*, 6: 12-13. (in Latvian)
- Petrova V., Čudare Z., Cibulskis R. 2006. Predators and herbivores beetles (Coleoptera) naturally occurring on strawberry (Latvia). *Acta Biologica Universitatis Daugavpiliensis*, 6 (1-2): 155-159.
- Precht K. 1818. *Verzeichnis der bis jetzt, vornehmlich in der Umgegend von Riga und im Rigischen Kreise bekannt gewordenen und systematisch bestimmten käferartigen Insecten (Coleoptera Linnaei, Eleutherata Fabricii)*. Riga, D. Müller: 1-39.

- Priedītis A. [Приедитис А. П.] 1958. Материалы о составе корма некоторых видов синантропных птиц. В кн.: *Привлечение полезных птиц-дуплогнёздников в лесах Латвийской ССР*. Рига, изд-во АН ЛатвССР: 221-248.
- Princovs G. 2000. Jaunas ziņas par Gulbenes rajona vaboļu (Coleoptera) izplatību. *Daugavpils Pedagoģiskās universitātes 8. Ikgadējās zinātniskās konferences Rakstu krājums A11 (Dabaszinātnes, dabaszinātņu didaktika, matemātika, datorzinātne)*. Daugavpils, DPU, Saule: 14-15. [in Latvian]
- Pūtele V. 1974. [Leaf-beetles (Coleoptera, Chrysomelidae) discovered in the surroundings of Jelgava city. In: *Brief reports of a scientific conference on the protection of plants. Saku, 2-4 1974 (2)*. Tallinn: 55-58. [in Russian]
- Pūtele V. 1977. Pested leaf-beetles (Col. Chrysomelidae) in the genus *Melasoma* Steph. in the Latvian SSR. *Latvijas Lauksaimniecības akadēmijas raksti*, 122: 45-49. [in Latvian]
- Pūtele V. 1980. Lapgraužu (Coleoptera, Chrysomelidae) faunas pētījumi Slīteres valsts dabas rezervātā. *Slīteres rezervāta I. zinātniski praktiskā konference, referātu tēzes*. Slītere: 18-21. [in Latvian]
- Pūtele V. 1981. Studies on leaf-beetles (Coleoptera, Chrysomelidae) fauna of the Slītere State Nature Reserve. *Latvijas Lauksaimniecības akadēmijas raksti*, 188: 12-19. [in Russian]
- Pūtele V. 1981a. Studies on Leaf-beetles fauna of the Slītere State Nature Reserve: reports. *Mežsaimniecība un mežrūpniecība*, 3: 42-44. [in Latvian]
- Pūtele V. O. 1982. [Pested leaf-beetles (Coleoptera, Chrysomelidae) of the Latvian SSR.] Вредные листоеды (Coleoptera, Chrysomelidae) Латвийской ССР. *Труды Латвийской сельскохозяйственной академии*, 200 (*Борьба с вредителями и болезнями картофеля, плодовоовощных и полевых культур*): 28-33.
- Pūtele V. O. 1984. Leaf-beetles – pests of tree cultures in the Slītere State Nature Reserve. *Latvijas Lauksaimniecības akadēmijas raksti*, 213: 9-15. [in Russian]
- Rathlef H. 1905. *Coleoptera Baltica. Käfer-Verzeichnis der Ostseeprovinzen nach den Arbeiten von Ganglbauer und Reitter*. Dorpat, C. Mattiesen: 16+199.
- Romantsov P. V. 2007. A review of leaf beetles (Coleoptera, Chrysomelidae) of St. Petersburg and Leningrad province. *Entomological Reviews* LXXXVI (2): 306–336. [in Russian, English summary]
- Rupais A. 1959. *Dekoratīvo koku un krumu kaitēkļi*. Rīga, Latvijas PSR Zinātņu Akadēmijas izdevniecība: 1-146. [in Latvian]
- Seidlitz G. 1872-1875. Fauna Baltica. Die Käfer (Coleoptera) der Ostseeprovinzen Russlands. Dorpat: H. Laakmann: 4+ XLII + 142+ 560.
- Seidlitz G. 1887-1891. Fauna Baltica. Die Käfer (Coleoptera) der deutschen Ostseeprovinzen Russlands. 2 Auflage. Königsberg, Hartungsche Verlagsdruckerei: 12+ LVI+ 192+ 818.
- Silfverberg H. 2004. Enumeratio nova Coleopterorum Fennoscandiae, Daniae et Baltiae. *Sahlbergia*, 9: 1-111.
- Sintenis, F. 1900. Forstinsecten der Ostseeprovinzen. *Separat – Abzug aus den Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew (Dorpat) Jhrg. 1899, 17 Febr.*: 173-198.
- Smarods J., Liepa I. 1956. *Dārzeņu kaitēkļi un slimības*. Rīga, Latvijas Valsts izdevniecība: 1-407. [in Latvian]

- Šmits V., Spuris Z. 1966. Vaboles – Coleoptera. In: Z. Spuris (ed.) *Latvijas dzīvnieki*. Rīga, Zvaigzne: 177-187. [in Latvian]
- Spuris Z. 1953. Par Latvijas PSR ezeru pamatbiotopu svarīgākām dzīvnieku sugām un to izplati. *Latvijas PSR ZA Vēstis*, 9 (74): 67-82. [in Latvian]
- Spuris Z. 1974. Cietspārni jeb vaboles – Coleoptera. In: Z. Spuris (ed.) *Latvijas dzīvnieku pasaule*. Rīga, Liesma: 139-151. [in Latvian]
- Stiprais M. 1977. Dažas faunistiskas ziņas par Latvija lapgraužiem. [Faunistic data on the Chrysomelidae in Latvia]. *Latvijas Entomologs*, 20: 14-23. [in Latvian, German summary]
- Stiprais M., Varzinska R. 1985. The beetles in the pig-breeding farm at Jumprava. *Latvijas Entomologs*, 28: 18-31.
- Taglianti V.A., Audisio P.A., Biondi M., Bologna M.A., Carpaneto G.M., De Biase A., Fattorini S., Piattella E., Sindaco R., Venchi A., Zapparoli M. 1999. A proposal for a chorotype classification of the Near East fauna, in the framework of the Western Palearctic region. *Biogeographia*, 20: 31–59.
- Telnov D. 2001. To the knowledge of Latvian Coleoptera, 1. *Latvijas Entomologs*, 38: 61-69.
- Telnov D. 2004. Check-List of Latvian Beetles (Insecta: Coleoptera). Second Edition. In: Telnov D. (ed.) *Compedium of Latvian Coleoptera, vol. 1*. Rīga, Pertovskis & Co: 1-114.
- Telnov D., Barševskis A., Savich F., Kovalevsky F., Berdnikov S., Doronin M., Cibulskis R., Ratniece D. 1997. Check-List of Latvian Beetles (Insecta: Coleoptera). *Mitteilungen des Internationalen Entomologischen Vereins*, Supplement V: 1-140.
- Tomsons A. 1940. Cukurbiešu kaitēkļi Zemgales līdzenumā, Rīgas apkārtnē un Daugavas labajā krastā starp Pļaviņām un Lielvārdi. *Cukurbiešu kultūra un cukurrūpniecība*, 10 (4/6): 164-199. [in Latvian]
- Trauberga O. 1957. Coleoptera – vaboles. In: *Latvijas PSR dzīvnieku noteicējs, 1*. Rīga, Latvijas Valsts izdevniecība: 455-592. [in Latvian]
- Ulanowski A. 1883. Z fauny coleopterologicznej Inflant Polskich. *Sprawozdanie Komisji Fizyograficznej* T.18, Krakow: 1 - 60.
- Warchałowski A. 2003. *The leaf-beetles (Chrysomelidae) of Europe and the Mediterranean region*. Warszawa, Natura optima dux Foundation: 1-600.

Received: 19.10.2009.

Accepted: 01.11.2009.



Welcome to amazing world of
Ground-Beetles
(Carabidae, Coleoptera)!



www.carabidae.ru
