

TO THE KNOWLEDGE OF FLEA BEETLES (COLEOPTERA: CHRYSOMELIDAE: ALTICINAE) OF THE LATVIAN FAUNA. 6. GENUS *LONGITARSUS* LATREILLE, 1829

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Information on *Longitarsus* Latreille, 1829 of the Latvian fauna is summarised in the current paper. Faunal data on 22 species of this genus are presented. Two species, *L. kutscherai* (Rye, 1872) and *L. lewisii* (Baly, 1874), are reported for the first time for the Latvian fauna. Bibliographical information on flea beetles of the given genus in Latvia is summarised for the first time. Ten species, *L. helvolus* Kutschera, 1863, *L. nanus* (Foudras, 1860), *L. monticola* Kutschera, 1863, *L. longipennis* Kutschera, 1863, *L. scutellaris* (Mulsant et Rey, 1874), *L. quadriguttatus* (Pontoppidan, 1765), *L. minusculus* (Foudras, 1860), *L. echii* (Koch, 1803), *L. obliterated* (Rosenhauer, 1847) and *L. fuscoaeenus* Redtenbacher, 1849, are deleted from the list of Latvian Coleoptera. The annotated list of Latvian *Longitarsus* Latreille, 1829 is given, including 34 species.

Key words: Coleoptera, Chrysomelidae, Alticinae, *Longitarsus*, Latvia, fauna, new records, bibliography

INTRODUCTION

The genus *Longitarsus* Latreille, 1829 is a cosmopolitan taxon with more than 500 species (Čížek & Doguet 2008; Lopatin 1977). There are 258 species of this genus known from the Palaearctic region (Gruev & Döberl 1997). Of them, 72 species are known from eastern Europe (Bieńkowski 2004) and 48 species from Fennoscandia and Baltiae (Silfverberg 2004).

Hitherto, in the second edition of the check-list of Latvian Coleoptera (Telnov 2004) 40 species of *Longitarsus* were mentioned, whereas 3 species (*L. aeruginosus* (Foudras, 1859), *L. membranaceus* (Foudras, 1860), *L. symphyti* Heikertinger, 1912) were deleted. In adjacent territories, the number of recorded species from this genus varies: Belarus accounts for 43 species

(Lopatin & Nesterova 2005), Estonia for 26 species (Silfverberg 2004), Lithuania for 29 species (Pileckis, Monsevičius 1997; Silfverberg 2004), Kaliningrad region for 20 species (Aleksiev 2003), St. Petersburg and the Leningrad region (western Russia) for 18 species (Romantsov 2007).

The first information on flea beetles of the genus *Longitarsus* in Latvia was published at the beginning of the 19th century (Precht 1818). Subsequently, more than 30 works have been published. Pūtele (1965) provided information on 34 species of *Longitarsus* Latreille, 1829 in Latvia. Faunal data can also be found in the following articles: Heyden 1903; Lindberg 1932; Mikutowicz 1905, 1911; Palij 1958; Pūtele 1970b, 1974, 1981a; Priedītis, Pūtele 1976; Barševskis 1993.

The imagoes of *Longitarsus* feed on herbaceous plants: mostly on Compositae, Boraginaceae, Scrophulariaceae and Labiatae, rarely on Convolvulaceae, Plantaginaceae, Ranunculaceae and Lentibulariaceae. Larvae feed on roots or mine the leaf stems (*L. melanocephalus*), pupate in the soil (Bieńkowski 2004).

Some species of the genus *Longitarsus* are pests of cultivated plants (Kryzhanovskij 1974). In Latvia, *L. parvulus* (Paykull, 1799) is reported as the pest of the flax *Linum* (Palij 1958; Pütele 1958, 1970b; Ozols 1963; Spuris 1974).

Current paper is a continuation of studies on Alticinae of the Latvian fauna (Bukejs 2008a, 2008b, 2009a, 2009b, 2009c, 2009d). The aim of the this work is to summarise data on the genus *Longitarsus* in Latvia. Bibliographic information is compiled for the first time. Faunal data on 22 species are presented. Annotated list of Latvian species is given. Altogether, 34 species of *Longitarsus* Latreille, 1829 are reported from Latvia.

MATERIAL AND METHODS

A total of 439 specimens of *Longitarsus* were reviewed in current investigation. The examined material is stored in the collection of beetles of Daugavpils University Institute of Systematic Biology (DUBC, Daugavpils, Latvia), the collection of Institute of Biology of Latvian University (Salaspils, LV), the collection of V. Pütele (Institute of Biology of Latvian University, Salaspils, LV), and the private collection of the author (Daugavpils, Latvia).

The following identification keys have been used for determination of specimens: Bieńkowski 2004; Čķek, Doguet 2008; Lopatin, Nesterova 2005; Mohr 1966; Warchałowski 2003. Identification of species requires examination of male aedeagus and female spermatheca. The systematics suggested by Silfverberg (2004). The nomenclature and synonymy suggested by Döberl (2010).

Host plants are listed citing the monograph of Lopatin & Nesterova (2005). The general distribution of species is given according to Bieńkowski (2004), Borowiec (2004), Döberl (2010), Hayashi *et al.* (1984), Lopatin (1977, 1986), Lopatin & Kulenova (1986), Lopatin & Nesterova (2005), Medvedev (1982, 1992), Medvedev & Dubeshko (1992), and Warchałowski (2003).

Classification of chorotypes follows as suggested by Taglianti *et al.* (1999), except the Palaearctic-Oriental chorotype. The transcript of chorotypes codes: ASE – Asiatic-European, CAE – Centralasiatic-European, CEM – Centralasiatic-European-Mediterranean, CEU – Centraleuropean, EUM – Europeo-Mediterranean, EUR – European, PAL – Palaearctic, PAO – Palaearctic-Oriental, SIE – Sibero-European, WPA – West-Palaearctic.

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, V, VI, VII, VIII, IX – months from April to October; in oval brackets – ten-day period), general distribution of species and the chorotype code.

Some species are marked with a dash (-) in the list. These species have been recorded for Latvian fauna, but they seems to not appear in the Batlic region, and it is doubtful whether they ever occurred in Latvia. These species are herewith excluded from the list of Latvian Coleoptera.

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

RESULTS AND DISCUSSION

During the current research, the occurrence of 22 species of *Longitarsus* Latreille, 1829 was

confirmed for the Latvian fauna. Others 12 species are included in the list on the basis of bibliographic data.

Two species, *L. kutscherai* (Rye, 1872) and *L. lewisii* (Baly, 1874), are reported for the first time for Latvia.

Two species, *L. echii* (Koch, 1803) and *L. noricus* Leonardi, 1976, were reported for the Latvian fauna in some publications (Pūtele 1974, Gruev 1982) but they were not mentioned in previous catalogues of Latvian Coleoptera (Telnov *et al.* 1997; Telnov 2004).

Ten species, *L. helvolus* Kutschera, 1863, *L. nanus* (Foudras, 1860), *L. monticola* Kutschera, 1863, *L. longipennis* Kutschera, 1863, *L. scutellaris* (Mulsant et Rey, 1874), *L. quadriguttatus* (Pontoppidan, 1765), *L. minusculus* (Foudras, 1860), *L. echii* (Koch, 1803), *L. obliteratus* (Rosenhauer, 1847) and *L. fuscoaeus* Redtenbacher, 1849, are deleted from the list of Latvian Coleoptera.

Overall, the list of *Longitarsus* Latreille, 1827 of the Latvian fauna includes 34 species.

Analysis of the distribution of Latvian species of *Longitarsus* reveals that the range of chorotypes is rather wide: Palaearctic-Oriental – 1 species [*L. succineus* (Foudr.)], Palaearctic – 8 species [*L. tabidus* (F.), *L. lycopi* (Foudr.), *L. melanocephalus* (Deg.), *L. kutscherai* (Rye), *L. ganglbaueri* Hktg., *L. atricillus* (L.), *L. luridus* (Scop.), *L. parvulus* (Pk.)], West-Palaearctic – 2 species [*L. ochroleucus* (Marsh.), *L. gracilis* Kutsch.], Asiatic-European – 6 species [*L. lewisii* (Baly), *L. longiseta* Wse., *L. suturellus* (Duft.), *L. nasturtii* (F.), *L. holsaticus* (L.), *L. brunneus* (Duft.)], Sibero-European – 3 species [*L. rubiginosus* (Foudr.), *L. apicalis* (Beck), *L. nigerrimus* (Gyll.)], Centralasiatic-European-Mediterranean – 8 species [*L. pellucidus* (Foudr.), *L. jacobaeae* (Waterh.), *L. nigrofasciatus* (Gz.), *L. curtus* (All.), *L. exsoletus* (L.), *L. pratensis* (Pz.), *L. ballotae* (Marsh.), *L. aeneicollis* (Fald.)], Centralasiatic-European – 2 species [*L. absynthii* Kutsch., *L. anchusae* (Pk.)], Europeo-

Mediterranean – 1 species [*L. ferrugineus* (Foudr.)], **European – 2 species** [*L. fulgens* (Foudr.), *L. niger* (Koch)], **Centraleuropean – 1 species** [*L. noricus* Leonardi].

ANNOTATED LIST OF SPECIES OF THE LATVIAN FAUNA

ŅHRYSOMELIDAE LATREILLE, 1802

ALTICINAE NEWMAN, 1835

LONGITARSUS LATREILLE, 1829

SUBGENUS *LONGITARSUS* S.STR.

syn.: *Teinodactyla* Chevrolat, 1836; *Thyamis* Stephens, 1831

L. pellucidus (Foudras, 1860)

References: Rathlef 1921; Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974; Telnov *et al.* 1997; Telnov 2004.

Examined material: 9 exx: Jūrmala: Sloka, 31.VII.1974 (2, leg. anonymous); Liepāja d.: Upmaļi, 12.VIII.2008 (1, seashore, leg. A.Barševskis); Limbaži d.: Skulte, 6.VIII.1977 (4, leg. V.Pūtele); Preiļi d.: Jersika, Kurpnieki house, 4-5.VIII.2007 (1, leg. A.Barševskis); Rīga: Vecdaugava, 29.VI.1974 (1, leg. anonymous).

Host plants: *Convolvulus* (Convolvulaceae).

Phenology: V (3), VI, VII, VIII.

General distribution: Europe, N Africa, Caucasus, Asia Minor, Near East, Afghanistan, Iran, south part of W Siberia, Kazakhstan, Central Asia, Mongolia. [CEM]

L. ochroleucus (Marsham, 1802)

References: Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974; Telnov *et al.* 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: *Matricaria*, *Achillea*, *Tanacetum*, *Artemisia* (Compositae).

Phenology: V, VII, VIII.

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

Note: Pūtele (1965, 1974) mentioned this species from 4 localities.

L. jacobaeae (Waterhouse, 1858)

syn.: *laevis* Duftschmid, 1825

References: Seidlitz 1872-1875 (*laevis* Duft.), 1887-1891 (*laevis* Duft.); Rathlef 1905; Tomsons 1940; Pūtele 1965, 1970a, 1970b, 1971, 1974; Barševskis 1993; Telnov et al. 1997; Telnov 2004.

Examined material: 5 exx: Aizkraukle d.: Jaunjelgava, 11.VIII.2006 (1, near the Daugava River, leg. E.Rudāns, A.Barševskis); Cēsis d.: Taurene, 21.VIII.2006 (1, leg. A.Pankjāns); Daugavpils d.: Lociki, 7.VII.2001 (1, leg. G.Lociks), 31.VII.2008 (1, leg. A.Barševskis); Krāslava d.: Šķaune, 26.VII.1990 (1, leg. A.Barševskis).

Host plants: *Senecio* (Compositae).

Phenology: VI, VII, VIII.

General distribution: Europe, N Africa, Caucasus, south part of Siberia, Kazakhstan, Central Asia (Kyrgyzstan), Mongolia. [CEM]

Note: In Latvia, the species known from 7 localities.

(-) *L. symphyti* Heikertinger, 1912

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004 (deleted from list); Kalniņš et al. 2007.

Host plants: *Symphytum*, *Myosotis* (Boraginaceae).

General distribution: C and S Europe, Caucasus, south part of W Siberia (Sayans, Tuva), Central Asia (Uzbekistan). [CAE]

***L. succineus* (Foudras, 1860)**

References: Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b; Priedītis and Pūtele 1976; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: 4 exx: Preiļi d.: Jersika, Kurpnieki house, 1.VIII.2008 (1, leg. A.Barševskis); Rēzekne d.: Bērzgale, 8.VII.2008 (1, leg. M.Balalaikins); Ventspils d.: Ziras E env., 57°11'55"N 21°37'39"E, 28.VII.2005 (2, bank of the Venta River, leg. A.Barševskis, A.Bukejs, U.Valainis).

Host plants: Compositae.

Phenology: VII, VIII, IX.

General distribution: in Palaearctic region – Europe, N Africa, Caucasus, Asia Minor, Near East, Iran, Afghanistan, Siberia, Kazakhstan, Central Asia, Mongolia, Russian Far East, Japan, China, Nepal, Korean Peninsula; in Oriental region – India, S China, Vietnam). [PAO]

(-) *L. aeruginosus* (Foudras, 1860)

References: Pūtele 1974; Telnov et al. 1997; Telnov 2004 (deleted from list).

Examined material: Earlier record of this species in Latvia – “Dobele, 27.VII.1977 (3, leg. V.Pūtele)” [in the collection of Institute of Biology] was based on misidentification.

Host plants: Compositae, Boraginaceae.

General distribution: W Europe, western and central parts of Mediterranean region. [EUM]

***L. noricus* Leonardi, 1976**

References: Gruev 1982.

Examined material: 6 exx: Daugavpils d.: Daugavpils, Mežciems, 19.VII.1992 (1, leg. A.Barševskis), 19.VII.2007 (2, leg. K.Aksjuta, M.Murd); Dviete, 22.VIII.2006 (1, leg. A.Barševskis); Jēkabpils d.: Dunava, 29.VIII.2006 (1, leg. A.Barševskis); Rīga d.: Saulkrasti S env., Inčupe train station, 4.VI.1974 (1, leg. anonymous).

Host plants: unknown.

Phenology: VII, VIII.

General distribution: Europe (C and SE Europe, Poland, Byelarus, Ukraine (Crimea, Karpathians), Latvia, Smolensk, Moscow city and region, Lipetz reg.), Caucasus. [CEU]

Note: In Latvia, for the first time this species was mentioned by Gruev (1982) from Bauska. In previous catalogues of Latvian Coleoptera (Telnov et al. 1997, Telnov 2004) it was not mentioned.

***L. rubiginosus* (Foudras, 1860)**

syn.: *flavicornis* Allard, 1860

References: Seidlitz 1872-1875, 1887-1891; Heyden 1903; Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b; Priedītis, Pūtele 1976; Barševskis 1993; Telnov et al. 1997; Telnov 2004.

Examined material: 41 exx: Daugavpils d.: Butišķi, 9.IX.2007 (2, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Daugavpils, Cietoksnis env., 7.VIII.2008 (1, bank of the Daugava River, leg. A.Bukejs, M.Balalaikins); Ilgas, Silene Nature Park, VI.2002 (8, leg. A.Barševskis); Jūrmala: Sloka, 31.VII.1974 (3, leg. anonymous); Preiļi d.: Jersika, 18.VIII.2006 (19, leg. A.Barševskis); Rēzekne d.: Gaigalava env., bank of Lake Lubāns near the

Aiviekste River, 8.IX.2007 (1, leg. A.Bukejs, M.Balalaikins); Rīga d.: Saulkrasti S env., Inčupe train station, 6.VIII.1974 (3, leg. anonymous).

Host plants: *Convolvulus*, *Calystegia* (Convolvulaceae).

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

General distribution: Europe, Caucasus, Siberia, Russian Far East. [SIE]

***L. tabidus* (Fabricius, 1775)**

syn.: *verbasci* (Panzer, 1794)

References: Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004.

Examined material: 29 exx: Daugavpils d.: Butišķi, 25.VII.2008 (1, valley of the Daugava River, dry meadow, on *Verbascum*, leg. A.Bukejs); Ilgas, Silene Nature Park, 2.IX.1993 (1, leg. A.Barševskis); Jēkabpils d.: Vandāni, 16.VIII.2008 (1, bank of the Daugava River, leg. M.Balalaikins); Kuldīga d.: Kuldīga, 15.VII.2005 (2, leg. A.Barševskis), 28.VII.2005 (15, leg. A.Barševskis, A.Bukejs, U.Valainis); Limbaži d.: Kūiķule, 27.VII.2007 (3, leg. A.Barševskis); Rīga d.: Saulkalne, 06.VIII.2007 (1, leg. A.Barševskis).

Host plants: *Verbascum*, *Scrophularia*, *Veronica* (Scrophulariaceae).

Phenology: VII, VIII, IX (1).

General distribution: Europe, N Africa, Asia Minor, Israel, Caucasus, Iran, Afghanistan, Siberia, Kazakhstan, Central Asia, Mongolia, Japan. [PAL]

***L. nigrofasciatus* (Goeze, 1777)**

syn.: *lateralis* (Illiger, 1807)

References: Mikutowitz 1911 (*lateralis* Ill.); Palij 1958; Pūtele 1965, 1970a, 1970b, 1971; Barševskis 1993; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author. Some earlier records of this species in Latvia – “Talsi d.: Slītere, 20.VIII.1983 (1, leg. V.Pūtele)” [in the collection of Institute of Biology] and “Krāslava d.: Šķeltova, 18.VIII.1992 (1, Voloku forest, leg. A.Barševskis)” (Barševskis 1993) were based on misidentification.

Host plants: *Verbascum*, *Scrophularia* (Scrophulariaceae).

Phenology: VII, VIII, IX, X (1).

General distribution: Europe (excl. N), N Africa, Asia Minor, Near East, Afghanistan, Iran, Iraq, Caucasus, Kazakhstan, Central Asia. [CEM]

Note: Record needs confirmation. According to the catalogue of Silfverberg (2004), it is mentioned for Latvia and Norway. The species is known also from S Belarus (Lopatin, Nesterova 2005).

***L. lycopi* (Foudras, 1860)**

syn.: *abdominalis* Allard, 1860

References: Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974; Priedītis, Pūtele 1976; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: 3 exx: Tukums d.: Klāpkalnciems, 13.VI.1974 (2, cultivated meadow, leg. anonymous), 21.IX.1974 (1, cultivated meadow, leg. anonymous).

Host plants: *Mentha*, *Melisa* (Labiatae).

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

General distribution: Europe, N Africa, Asia Minor, Near East, Saudi Arabia, Iraq, Iran, Caucasus, Siberia, Kazakhstan, Central Asia, Mongolia. [PAL]

(-) *L. membranaceus* (Foudras, 1860)

References: Telnov et al. 1997; Telnov 2004 (deleted from list).

Examined material: Earlier record of this species in Latvia – “Slītere, 22.VIII.1983 (3, leg. V.Pūtele)” [in the collection of Institute of Biology] was based on misidentification.

Host plants: In the literature (Bieńkowski 2004), Labiatae (*Teucrium*, *Mentha*) are mentioned as host plants.

General distribution: Europe (France, Italy, Austria and Germany, Danube basin, Balkan Peninsula), N Africa (Algeria, Morocco, Tunisia), Near East (Israel), Asia Minor (Turkey, Cyprus), Caucasus. [EUM]

(-) *L. helvolus* Kutschera, 1863

syn.: *membranaceus* Heikertinger, 1930

References: Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), *Teucrium chamaedrys* (Labiatae) is mentioned as host plant.

General distribution: Europe (France, Italy, Austria, Croatia, Germany, Czech Republic, Hungary, Slovakia, Slovenia, Switzerland). [CEU]
Note: There are not faunal data or bibliographical reports of this species for Latvia. The occurrence of the species in the Latvian fauna is doubtful. Therefore it is deleted from the list of Latvian Coleoptera.

***L. ferrugineus* (Foudras, 1860)**

syn.: *waterhousei* Kutschera, 1864

References: Pūtele 1965, 1968, 1970a, 1970b, 1971 (*waterhousei* Kutsch.); Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: 7 exx: Daugavpils d.: Butišķi, 9.IX.2007 (1, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Ilgas, Silene Nature Park, VI.2002 (1, leg. A.Barševskis); Jēkabpils d.: Dunava, 14.IX.2006 (3, leg. A.Barševskis); Preiļi d.: Sutri, 14.VIII.2008 (1, leg. A.Barševskis); Ventspils d.: Moricsala Isl., Moricsala Nature Reserve, 6.IX.2002 (1, leg. U.Valainis).

Host plants: *Mentha*, *Lycopus*, *Teucrium* (Labiatae).

Phenology: VI, VIII, IX.

General distribution: Europe (excl. N), Caucasus, N Africa. [EUM]

(-) *L. nanus* (Foudras, 1860)

syn.: *vitreus* Kutschera, 1863

References: Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b; Barševskis 1993; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author. Some earlier records of this species in Latvia – “Talsi d.: Slītere, 20.VIII.1983 (1, leg. V.Pūtele)” [in the collection of Institute of Biology] and “Daugavpils, Mežciems, 19.VII.1992 (1, leg. A.Barševskis)” (Barševskis 1993) were based on misidentification.

Host plants: Labiatae.

General distribution: Europe (excl. N), N Africa (Algeria), Asia Minor (Turkey), Near East (Israel), Caucasus. [EUM]

Note: The occurrence of the species in the Latvian fauna is doubtful. The nearest localities of this species are in S Poland (A. Warchałowski pers. comm.) and Ukraine. Probably, other few reports of this species in Latvia by Pūtele (1965, 1974,

1981a) were based on misidentification. Therefore it is deleted from the list of Latvian Coleoptera.

***L. melanocephalus* (DeGeer, 1775)**

syn.: *atricilla* Fabricius, 1775 (*Altica*); *melanocephala* Gyllenhal 1813 (*Altica*); *piciceps* Stephens, 1831

References: Fleischer 1829 (*Altica*); Seidlitz 1872-1875, 1887-1891 (*melanocephalus* Gyll.); Rathlef 1905; Trauberga 1957; Palij 1958; Pūtele 1965, 1970b, 1971, 1974, 1980, 1981a, 1981b; Priedītis, Pūtele 1976; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: 46 exx: Aizkraukle d.: Aizkraukle env., Aizkraukles purvs (bog), 4.V.1995 (1, clearing, leg. A.Barševskis), 1.VII.2008 (2, forest edge, on *Plantago*, leg. A.Bukejs); Cēsis d.: Cēsis, 28.VII.2007 (1, park, leg. A.Barševskis); Daugavpils d.: Bebrene, 4.V.2006 (1, leg. E.Rudāns), 23.VI.2006 (1, leg. E.Rudāns); Butišķi, 9.IX.2007 (1, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Daugavpils, Esplanāde, 1.V.2006 (1, leg. K.Barševska); Ilgas, 18.VI.1994 (2, leg. A.Barševskis), 2.VI.1994 (1, leg. A.Barševskis), 18.VI.1994 (1, leg. A.Barševskis), 21-24.IV.1995 (1, leg. A.Barševskis), 18.V.2005 (1, leg. A.Barševskis); Līksna, 19.IV.1996 (1, leg. R.Cibuļskis), 25.X.1996 (1, leg. R.Cibuļskis), 4.IV.1997 (1, leg. R.Cibuļskis); Naujene, 27.IV.2007 (2, Jezufova park, leg. K.Aksjuta, M.Murd); Šarlote, 11.V.2008 (1, leg. K.Aksjuta), 1.VI.2008 (1, leg. K.Aksjuta), 4.V.2009 (1, leg. K.Aksjuta); Šedere, Straumēni house, 1-3.V.2008 (1, leg. M.Janovska); Jēkabpils d.: Dunava, 29.VIII.2006 (1, leg. A.Barševskis), 13.V.2007 (1, leg. K.Barševska, A.Barševskis); Rubene, 21.II.1998 (1, in hibernation place, leg. I.Leiskina), 21.IV.2000 (1, leg. I.Leiskina); Krāslava d.: Piedruja, 19.IV.1991 (1, leg. A.Barševskis); Šķeltova, 4.IV.1993 (1, leg. A.Barševskis); Preiļi d.: Jersika, Kurpnieki house, 4.V.2006 (2, leg. K.Barševska), 1-10.V.2009 (3, leg. K.Barševska); Rīga d.: Saulkrasti S env., Inčupe train station, 27.VIII.1974 (3, leg. anonymous), 16.IX.1974 (2, leg. anonymous); Talsi d.: Slītere, 20.VIII.1983 (1, leg. V.Pūtele), 22.VIII.1983 (4, leg. V.Pūtele); Slītere National Park, Zilie kalni (hills), 22.VIII.2008 (2, leg. A.Barševskis); Ventspils d.: Moricsala Isl., Moricsala Nature Reserve, V.2002 (1, window

trap, leg. U.Valainis), 25.VI.2004 (1, leg. A.Barševskis, U.Valainis).

Host plants: *Plantago*, mostly on *Plantago lanceolata* (Plantaginaceae).

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

General distribution: Europe, N Africa, Asia Minor, Near East (Israel), Caucasus, Iran, Afghanistan, Siberia, Kazakhstan, Central Asia, Mongolia. [PAL]

Note: One of most common species of the genus in Latvia.

***L. kutscherai* (Rye, 1872)**

Examined material: 7 exx: Daugavpils d.: Ļubesti SE env., Rīga-Krāslava beltway, 17.V.2007 (1, leg. A.Barševskis, K.Barševska); Jēkabpils d.: Dunava, 25.IV.2009 (1, leg. A.Barševskis); Talsi d.: Slītere, 22.VIII.1983 (3, leg. V.Pūtele); Venspils d.: Moricsala Isl., Moricsala Nature Reserve, 14.V.2004 (1, leg. A.Barševskis); Ziras E env., 57°11'55"N 21°37'39"E, 28.VII.2005 (1, bank of the Venta River, leg. A.Barševskis, A.Bukejs, U.Valainis).

Host plants: Labiatae. In the literature (Bieńkowski 2004), *Plantago* and *Galeobdolon luteum* are also mentioned as host plants.

Phenology: IV(3), V, VII, VIII.

General distribution: Europe, N Africa (Algeria), Asia Minor (Turkey), Caucasus, Siberia, Russian Far East, N China (Inner Mongolia), Korean Peninsula. [PAL]

Note: New species for the Latvian fauna. Simultaneously this species was recorded in Latvia also by Dmitry Telnov (Telnov et al. in press). In Fenoscandia and Baltic states it is known from Denmark, Finland, Lithuania, Norway and Sweden (Silfverberg 2004); known also from Belarus (Lopatin & Nesterova 2005).

***L. curtus* (Allard, 1860)**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974; Priedītis, Pūtele 1976; Barševskis 1993; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author.

Host plants: Boraginaceae (mostly on *Echium*, *Symphytum*, *Myosotis*, *Pulmonaria*).

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

General distribution: Europe, N Africa, Caucasus, Afghanistan, Central Asia (Tajikistan, Turkmenistan). [CEM]

(-) *L. monticola* Kutschera, 1863

References: Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: unknown.

General distribution: Europe (mountain species of Austria, Bulgaria, Czechia, France, S and W Germany, Hungary, Italy, Poland, Rumania, Switzerlands), Caucasus. [CEU]

Note: There are not faunal data or bibliographical reports of this species for Latvia. The occurrence of the species in the Latvian fauna is doubtful. Therefore it is deleted from the list of Latvian Coleoptera.

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

syn.: *exoletus* (Linnaeus, 1761); *femoralis* (Marsham, 1802)

References: Seidlitz 1872-1875 (*femoralis* Marsch.), 1887-1891 (*femoralis* Marsh.); Rathlef 1905 (*exoletus* L.); Pūtele 1965, 1970a, 1970b, 1971, 1974 (*exoletus* L.); Priedītis, Pūtele 1976 (*exoletus* L.); Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007 (*exoletus* L.).

Examined material: 3 exx: Dobele d.: Dobele, 27.VII.1977 (1, leg. V.Pūtele); Jēkabpils d.: Mežāre, 4.IX.2009 (1, leg. M.Balalaikins); Talsi d.: Slītere, 29.VIII.1983 (1, leg. V.Pūtele).

Host plants: Boraginaceae (*Symphytum*, *Echium*, *Cynoglossum*).

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

General distribution: Europe, N Africa, Asia Minor, Caucasus, Afghanistan, Sayans, Kazakhstan, Central Asia (Turkmenistan). [CEM]

(-) *L. longipennis* Kutschera, 1863

syn.: *femoralis* Redtenbacher, 1849

References: Lopatin 1986 (Baltic States); Gruev, Döberl 1997 (Baltic States); Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author. Earlier record of this species in Latvia – “Slītere, 17.VIII.1983 (1, leg. V.Pūtele)” [in the collection of Institute of Biology] was based on misidentification.

Host plants: *Convolvus* (*Convolvulaceae*).

General distribution: C (Austria, the Netherlands, Germany, Czech Republic, Poland) and S Europe, **Balkan Peninsula, Crimea, N Africa** (Morocco), Asia Minor (Turkey), Israel, Caucasus, Kazakhstan, Central Asia. [CEM]

Note: There are not faunal data or bibliographical reports of this species for Latvia. Only in Lopatin (1986) and Gruev & Döberl (1997) it is mentioned for Baltic States. The occurrence of the species in the Latvian fauna is doubtful. Therefore it is deleted from the list of Latvian Coleoptera.

***L. lewisii* (Baly, 1874)**

Examined material: 3 exx: Daugavpils d.: 18.VII.1997 (1, leg. R.Cibuļskis); Krāslava d.: Asūne, 27.VII.1990 (2, leg. A.Barševskis).

Host plants: *Plantago* (Plantaginaceae).

Phenology: VII.

General distribution: Europe (Austria, Bosnia-Herzegovina, Belarus, Bulgaria, Czechia, Finland, France, Greece, Hungary, Italy, Macedonia, Poland, Rumania, Slovakia, Slovenia, Spain, Switzerland, Ukraine), Caucasus, Asia Minor (Turkey), Iran, Afghanistan, Central Asia, Mongolia, Siberia, Russian Far East, Japan, N and E China, Korean Peninsula. [ASE]

Note: New species for the Latvian fauna.

(-) *L. scutellaris* (Mulsant et Rey, 1874)

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: *Plantago* (Plantaginaceae).

General distribution: S and SE Europe, Asia Minor (Turkey), Caucasus, Siberia, Russian Far East, Mongolia, China, Japan, Korean Peninsula. The precise distribution of this species must be defined more exactly because of the former confusion with *L. pratensis* (Pz.) or *L. lewisii* (Baly). [ASE]

Note: Pūtele (1965) mentioned the species from single locality in Dobele d., Vecauce. **All reports after the review of *L. pratensis*-group by Leonardi & Doguet (1990) needs in verification because this species has been confused with *L. pratensis* (Pz.) or *L. lewisii* (Baly). I have not found specimen of *L. scutellaris* in the collection of Pūtele [in the collection of Institute of Biology].**
Actual records of this species in Latvia are

absent, therefore it is deleted from list of Latvian Coleoptera.

***L. pratensis* (Panzer, 1794)**

syn.: *medicaginis* Allard, 1860; *obsoletus* Mulsant et Rey, 1874; *pusillus* (Gyllenhal, 1813)

References: Seidlitz 1872-1875 (*pusillus* Gyll.), 1887-1891 (*pussilus* Gyll.); Rathlef 1905; Palij 1965; Pūtele 1965, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b; Barševskis 1993; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: 24 exx: Dobele d.: Dobele, 27.VII.1977 (2, leg. V.Pūtele); Krāslava d.: Robežnieki, 27.VII.1990 (1, leg. A.Barševskis); Šķeltova, 14.VIII.2006 (16, leg. A.Barševskis); Madona d.: Lubāna territory, Ezernieki house, 21.VIII.2008 (1, leg. A.Barševskis); Rīga: Vecdaugava, 29.VIII.1977 (2, leg. anonymous); Talsi d.: Slītere, 23.VIII.1983 (1, leg. V.Pūtele); 28.VIII.1983 (1, leg. V.Pūtele).

Host plants: *Plantago* (Plantaginaceae).

Phenology: V, VI, VII, VIII, IX (2).

General distribution: Europe, N Africa (Algeria, Morocco), Asia Minor, Near East (Israel), Caucasus, Afghanistan, Iran, Kazakhstan, Central Asia. [CEM]

***L. ballotae* (Marsham, 1802)**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974; Barševskis 1993 (misidentification); Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author. Earlier report of this species in Latvia – “Krāslava d.: Asūne, 27.VII.1990 (1, leg. A.Barševskis)” (Barševskis 1993) was based on misidentification.

Host plants: *Ballota*, *Marrubium* (Labiatae).

Phenology: VII.

General distribution: Europe (excl. N), N Africa, Asia Minor, Near East, Caucasus, Iran, Kazakhstan, Central Asia, Mongolia. [CEM]

Note: Pūtele (1965, 1974) mentioned the species from few localities. Record needs confirmation. According to the catalogue of Silfverberg (2004), the species is mentioned only for Latvia. It is known also from S Belarus (Lopatin, Nesterova 2005).

***L. gracilis* Kutschera, 1864**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author.

Host plants: *Tussilaga*, *Senecio*, *Petasites* (Compositae).

Phenology: V, VI, VII, VIII.

General distribution: Europe (northwards to S Sweden and Estonia), N Africa (Algeria, Morocco), Aia Minor (Turkey), Near East (Israel), Caucasus. [WPA]

***L. longiseta* Weise, 1889**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004.

Examined material: 5 exx: Daugavpils d.: Butišķi, 9.IX.2007 (1, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Elerne, Muravki house, 13.IX.2007 (1, leg. A.Barševskis, K.Barševska); Jēkabpils d.: Dunava, 01.VI.2002 (1, leg. A.Barševskis), 18.V.2008 (1, leg. A.Barševskis); Krāslava d.: 2.3 km SW Tartaks, Misjūni, 55°52'81"N 26°56'27"E, 9.V.2008 (1, valley of the Daugava River, leg. R.Cibuļskis).

Host plants: *Plantago* (Plantaginaceae), *Veronica* (Scrophulariaceae).

Phenology: V, VI, VII, IX.

General distribution: Europe, Caucasus, Siberia, Russian Far East, Japan, N China, Korean Peninsula. [ASE]

Note: In Latvia, the species is known from 6 localities.

***L. ganglbaueri* Heikertinger, 1912**

References: Pūtele 1974, 1980, 1981a (misidentification), 1981b; Priedītis, Pūtele 1976; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author. Earlier report of this species in Latvia – “Slītere, 28.V.1978 (1, leg. V.Pūtele), 6.VI.1978 (1, leg. V.Pūtele)” (Pūtele 1980, 1981a, 1981b) was based on misidentification.

Host plants: *Senecio* (Compositae).

Phenology: no data. In Belarus specimens were recorded in IV, VIII and X (Lopatin, Nesterova 2005).

General distribution: Europe, N Africa (Algeria, Morocco), Caucasus, Asia Minor, Siberia, Mongolia, Russian Far East. [PAL]

Note: In Latvia this species is reported from two localities: Jelgava env. (Pūtele 1974) and Jelgava d., Smedēni (Priedītis, Pūtele 1976).

***L. aeneicollis* (Faldermann, 1837)**

syn.: *suturalis* Marsham, 1802 nec Fabricius, 1775

References: Pūtele 1965, 1968, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b (*suturalis* Marsh.); Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author. Earlier record of this species in Latvia – 2 specimens (without labels) of *L. suturalis* Marsh. [in the collection of Institute of Biology] was based on misidentification.

Host plants: Boraginaceae.

Phenology: V, VI, VII, VIII.

General distribution: Europe (excl. N), N Africa, Caucasus, Asia Minor, Near East, Iran, Iraq, Afghanistan, Kazakhstan, Central Asia. [CEM]

Note: Pūtele (1965, 1974, 1981a) mentioned this species from few localities. Record needs confirmation. According to the catalogue of Silfverberg (2004), the species is mentioned for Estonia, Latvia and Lithuania. It is known also from S Belarus (Lopatin, Nesterova 2005).

***L. atricillus* (Linnaeus, 1761)**

syn.: *atricillus* Gyllenhal, 1813

References: Seidlitz 1887-1891 (*atricillus* Gyll.); Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b (*atricillus* Gyll.); Priedītis, Pūtele 1976; Barševskis 1993; Telnov et al. 1997; Telnov 2004.

Examined material: 15 exx: Cēsis d.: Taurene, 21.VIII.2006 (1, leg. A.Pankjāns); Daugavpils d.: Šedere, Straumēni house, 1-3.V.2008 (1, leg. M.Janovska); Jēkabpils d.: Dunava, 10-13.VIII.1995 (1, leg. A.Barševskis), 14.IX.2006 (1, leg. A.Barševskis); Rubene, 10.X.1997 (1, leg. I.Leiskina); Krāslava d.: Asūne, 27.VII.1990 (1, leg. A.Barševskis); Šķeltova, 18.VIII.1992 (1, leg. A.Barševskis), 23.VIII.2005 (1, leg. A.Barševskis), 14.VIII.2006 (2, leg. A.Barševskis), 11.VIII.2009 (1, leg. A.Barševskis); Ludza d.: Bļāši, 10.VIII.2008 (1, meadow, leg. M.Balalaikins); Preiļi d.: Jersika, Kurpnieki house, 1.X.2006 (2, leg. A.Barševskis); Rēzekne d.: Kaunata env., Lake Rāzna, near Lipuški, 18.V.2009 (1, leg. A.Bukejs).

Host plants: Fabaceae, Compositae.

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

General distribution: Europe, N Africa, Asia Minor (Turkey), Caucasus, Iran, Siberia, Kazakhstan, Central Asia (Turkmenistan, Uzbekistan), Russian Far East. [PAL]

***L. suturellus* (Duftschmid, 1825)**

syn.: *thoracicus* Allard, 1860

References: Mikutowicz 1911 (*thoracicus* All.); Palij 1958; Pūtele 1965, 1970b, 1971, 1974, 1980, 1981a, 1981b; Priedītis, Pūtele 1976; Barševskis 1993 (misidentification); Telnov et al. 1997; Telnov 2004; Petrova et al. 2006; Kalniņš et al. 2007; Spuņģis 2008.

Examined material: 43 exx: Bauska d.: Bauska Nature Park, 56°24'10"N 24°10'41"E, 3.V.2008 (5, leg. A.Pankjāns); Daugavpils d.: Butišķi, 01.VII.2009 (1, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Ilgas, Silene Nature Park, 8.VI.1994 (1, leg. A.Barševskis), 9.VI.1994 (1, leg. A.Barševskis), 8.X.1995 (1, leg. A.Barševskis), 18.V.2005 (1, leg. A.Barševskis); Līksna, 11.III.1994 (2, in hibernation place, leg. R.Cibuļskis), 18.VII.1996 (1, leg. R.Cibuļskis), 11.VII.1997 (1, leg. R.Cibuļskis); Līksna parish, 4 km N Daugavpils, 29.VI.2008 (3, old clearing, leg. A.Bukejs); Šarlote, 11.V.2008 (1, leg. K.Aksjuta); Šedere, Straumēni house, 1-3.V.2008 (1, leg. M.Janovska); Slutišķi, 4.V.2008 (1, leg. K.Barševska, A.Barševskis); Vasarģelišķi, 29.IV.2008 (1, leg. A.Pankjāns, U.Valainis); Jēkabpils d.: Dunava, 17.VII.1993 (1, leg. A.Barševskis), 18.V.2008 (1, leg. A.Barševskis); Salas parish, Sakas Isl., 27.V.2000 (1, leg. K.Uģeļska); Krāslava d.: Sauleskalns (hill), 12 km N Krāslava, 4.V.2008 (1, leg. K.Barševska, A.Barševskis); Ludza d.: Gagāri, 16.V.2009 (7, meadow, leg. A.Bukejs); Madona d.: Lubāna territory, Ezernieki house, 21.VIII.2008 (1, leg. A.Barševskis); Ošupe env., 2.5 km NE Lake Lubāns, 56°50'03"N 26°56'05"E, 6.VII.2008 (1, wet meadow and bank of the Aiviekste River, leg. M.Balalaikins, A.Bukejs); Preiļi d.: Jersika, Kurpnieki house, 4.V.2006 (2, leg. K.Barševska), 6-7.VI.2006 (1, leg. A.Barševskis, K.Barševska), 23-24.VI.2008 (1, leg. A.Barševskis), 29.VI.2008 (1, leg. A.Barševskis); Rīga d.: Saulkrasti S env., Inčupe train station, 24.VII.1974 (1, leg. anonymous); Valmiera d.: Mazsalaca, 21.V.1974

(1, leg. Varzinska), 16.V.1989 (1, leg. anonymous), 14.VII.1989 (1, leg. anonymous).

Host plants: *Tussilago*, *Senecio*, *Petasites* (Compositae).

Phenology: IV(3), V, VI, VII, VIII, IX, X(1).

General distribution: Europe, Asia Minor, Siberia, Mongolia, Russian Far East, Japan, China, N Korea. [ASE]

Note: One of most common species of the genus in Latvia.

***L. nasturtii* (Fabricius, 1792)**

syn.: *circumscriptus* Bach, 1859; *nasturtii* Fabricius, 1801 (*Crioceris*)

References: Precht 1818 (*Crioceris nasturtii*); Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b; Barševskis 1993; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007; Spuņģis 2008.

Examined material: 7 exx: Daugavpils d.: Līksna, 1.IV.1994 (1, in hibernation place, leg. R.Cibuļskis); Lociki, 15.V.2001 (1, leg. G.Lociks); Jēkabpils d.: Salas parish, Sakas Isl., 27.V.2000 (1, leg. K.Uģeļska), 26.V.2001 (1, leg. K.Uģeļska); Ludza d.: 1.5 km SW Gagāri, 56°26'44"N 27°50'02"E, 10.V.2008 (1, old clearing, leg. A.Bukejs); Valmiera d.: Talava, 57°43'04"N 25°09'75"E, 21.VIII.2006 (1, leg. A.Pankjāns); Valmiera d.: Mazsalaca, 12.VI.1989 (1, leg. anonymous).

Host plants: Boraginaceae.

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

General distribution: Europe, Asia Minor, Caucasus, Siberia, Kazakhstan, Centaral Asia (Kyrgyzstan), Mongolia, Russian Far East, N China, Korean Peninsula. [ASE]

(-) *L. quadriguttatus* (Pontoppidan, 1763)

syn.: *quadripustulatus* (Fabricius, 1775)

References: Seidlitz 1872-1875 (*quadripustulatus* F.), 1887-1891; Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: *Cynoglossum*, *Nonea* (Boraginaceae), *Digitalis* (Scrophulariaceae).

General distribution: Europe (northwards to S England and S Sweden), Caucasus, Asia Minor (Turkey). [EUR]

Note: There are not actual faunal data on this species for Latvia. Only in Seidlitz (1872-1875) it is mentioned for "Livland". Therefore it is deleted from the list of Latvian Coleoptera.

***L. apicalis* (Beck, 1817)**

syn.: *analis* Duftschmidt, 1825; *fischeri* Zetterstedt, 1838; *praticola* Sahlberg, 1834

References: Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Trauberga 1957; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: Compositae, Labiatae, Ranunculaceae (*Thalictrum*, *Ranunculus*).

Phenology: VIII.

General distribution: Europe, Caucasus, W Siberia, Altai, Sayans, Baikal env. [SIE]

Note: In Latvia the species is known from single locality (Pūtele 1965).

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

References: Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Lindberg 1932; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974; Telnov et al. 1997; Telnov 2004.

Examined material: 2 exx: Jēkabpils d.: Dunava, 9-10.VIII.2008 (1, leg. A.Barševskis); Tukums d.: Engure, 10.VI.1977 (1, leg. V.Pūtele).

Host plants: Scrophulariaceae (*Pedicularia*, *Veronica*).

Phenology: VI, VIII.

General distribution: Europe, Caucasus, Siberia, Russian Far East, Japan, E China, Korean Peninsula. [ASE]

Note: In Latvia this species known from few localities.

***L. luridus* (Scopoli, 1763)**

syn.: *brunneus* Stephens, 1831; *nigerrimus* Fowler, 1913 nec Gyllenhal, 1827

References: Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971, 1974, 1980, 1981a, 1981b, 1982; Priedītis, Pūtele 1976; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: 161 exx: Aizkraukle d.: Valle, 12.VIII.2008 (1, leg. A.Barševskis); Balvi d.: Kuprava, 26.VIII.1994 (1, leg. A.Barševskis); Vīļaka, 27.VII.1992 (1, leg. A.Barševskis);

d.: Taurene, 21.VIII.2006 (1, leg. A.Pankjāns); Daugavpils d.: Butišķi, 9.IX.2007 (1, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins); Daugavpils, Mežciems, 8.VIII.2007 (1, leg. K.Aksjuta, M.Murd); Dviete, 10.VIII.2008 (2, clearing, leg. A.Barševskis), 22.VIII.2006 (1, leg. A.Barševskis); Ilgas, Silene Nature Park, 2.IX.1993 (2, leg. A.Barševskis), 21-24.IV.1995 (1, leg. A.Barševskis), VI.2002 (1, leg. A.Barševskis); Ļūbaste E env., Daugavpils beltway, 22.VII.2008 (1, leg. A.Barševskis); Medumi, 29.IX.1992 (1, valley of the Laucese River, leg. A.Barševskis); Šedere, Straumēni house, 29.VII.2007 (1, leg. M.Murd), 1-4.V.2009 (2, leg. M.Janovska); Vābole, 22.II.1997 (1, in hibernation place, leg. R.Cibuļskis); Jēkabpils d.: Birži, 08.VIII.2008 (2, leg. A.Barševskis); Dunava, 10-13.VIII.1995 (1, leg. A.Barševskis), 20.VIII.2000 (1, leg. A.Barševskis), 20-31.VII.2006 (1, leg. K.Barševska), 11-13.VIII.2006 (1, leg. A.Barševskis), 29-31.VIII.2006 (1, leg. A.Barševskis), 29.VIII.2006 (1, leg. A.Barševskis), 13.V.2007 (1, leg. K.Barševska, A.Barševskis), 18.V.2008 (1, leg. A.Barševskis), 20.VII.2008 (1, leg. A.Barševskis); Jēkabpils, 16-17.VIII.2008 (2, aerodrome, leg. M.Balalaikins); Rubene, 30.VIII.1999 (1, leg. I.Leiskina); 6 km NW Vandāni, Vimbaru forest, 12.VIII.2008 (1, leg. M.Balalaikins); Jelgava d.: Tetele, 22.VII.1972 (1, leg. V.Pūtele); Jūrmala: Sloka, 22.VIII.1974 (3, leg. anonymous), 2.IX.1974 (5, leg. anonymous); Krāslava d.: Asūne, 27.VII.1990 (2, leg. A.Barševskis); Šķeltova, 22.VIII.1992 (5, leg. A.Barševskis), 26.VIII.1992 (1, leg. A.Barševskis), 30.VII.1993 (2, leg. A.Barševskis), 26.VII.1995 (1, leg. A.Barševskis), 28.VII.1996 (1, leg. A.Barševskis), 23.VIII.2005 (1, leg. A.Barševskis), 14.VIII.2006 (5, leg. A.Barševskis), 11.VIII.2009 (1, leg. A.Barševskis); Liepāja d.: Pāvilosta, 13.VIII.2008 (1, dunes, leg. A.Barševskis); Ludza d.: Bļāši, 10.VIII.2008 (5, meadow, leg. M.Balalaikins); Makašāni, 30.VII.1992 (1, leg. A.Barševskis); Madona d.: Aiviekste vill., 22.VIII.2006 (4, leg. A.Barševskis); Teiču purvs (bog), 134 quarter, x0645700 y6281000, 22.VIII-21.IX.1992 (1, leg. V.Spunģis), 22.VIII.1993 (1, leg. V.Spunģis); Preiļi d.: Jersika, 18.VIII.2006 (1, leg. A.Barševskis); Šņepst, 14.VIII.2008 (7, leg. A.Barševskis), 1-10.V.2009 (2, leg. K.Barševska, A.Barševskis); Sutri, 14.VIII.2008 (1, leg. A.Barševskis); Rēzekne

d.: Tīlīši, 8.VIII.2008 (1, leg. M.Balalaikins); Rīga: Vecdaugava, 20.VIII.1974 (4, leg. anonymous), 29.VIII.1974 (3, leg. anonymous), 9.IX.1974 (7, leg. anonymous), 18.IX.1974 (1, leg. anonymous); Rīga d.: Garupe, 7.VIII.1974 (1, leg. anonymous), 28.VIII.1974 (1, cultivated meadow, leg. anonymous); Saulkrasti S env., Inčupe train station, 6.VIII.1974 (1, leg. anonymous), 15.VIII.1974 (3, leg. anonymous), 27.VIII.1974 (13, leg. anonymous), 5.IX.1974 (1, leg. anonymous), 16.IX.1974 (1, leg. anonymous); Saldus d.: Saldus, 13.VII.2006 (3, bank of the Ciecere River, leg. A.Barševskis, K.Barševska); Talsi d.: Slītere, 13.VIII.1983 (7, leg. V.Pūtele), 22.VIII.1983 (1, leg. V.Pūtele), 23.VIII.1983 (3, leg. V.Pūtele); Slītere National Park, Zilie kalni (hills), 10.VIII.2006 (1, leg. A.Barševskis), 22.VIII.2008 (6, leg. A.Barševskis); Tukums d.: Klāpalknciems, 4.IX.1974 (1, natural meadow, leg. anonymous); Valmiera d.: Mazsalaca, 27.VIII.2006 (2, leg. A.Barševskis); Tālava, 21.VIII.2006 (2, leg. A.Barševskis); Ventspils d.: Moricsala Isl., Moricsala Nature Reserve, 3-5.VIII.2002 (1, leg. U.Valainis), VIII.2003 (1, leg. U.Valainis), IX.2003 (1, leg. U.Valainis), 11.VIII.2006 (1, leg. E.Rudāns). **Host plants:** Ranunculaceae (*Ranunculus*, *Clematis*). **Phenology:** IV (3), V, VI, VII, VIII, IX, X (2). **General distribution:** Europe, N Africa, Caucasus, Asia Minor, Near East, Iran, Iraq, Siberia, Kazakhstan, Central Asia, Mongolia, Russian Far East; introduced aslo to N America (Canada, USA). [PAL] **Note:** One of most common species of the genus in Latvia.

***L. fulgens* (Foudras, 1860)**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004. **Examined material:** 1 ex.: Jēkabpils d.: Vandāni, 16.VIII.2008 (1, bank of the Daugava River, leg. M.Balalaikins). Earlier record of this species in Latvia – “Slītere, 23.VIII.1983 (2, leg. V.Pūtele)” [in the collection of Institute of Biology] was based on misidentification and relate to *L. luridus*. **Host plants:** unknown. **Phenology:** VIII, IX. **General distribution:** Europe, Caucasus. [EUR]

Note: In Latvia this species known from 6 localities. According to the catalogue of Silfverberg (2004), the species is mentioned for Finland and Latvia. It is known also from Belarus (Lopatin, Nesterova 2005).

***L. brunneus* (Duftschmid, 1825)**

syn.: *castaneus* (Duftschmid, 1825); *lurida* var. 1 Gyllenhal, 1813 (*Haltica*) **References:** Fleischer 1829 (*Altica lurida* Gyl.); Seidlitz 1872-1875; Rathlef 1905; Pūtele 1974 (misidentification), 1980, 1981a, 1881b; Telnov et al. 1997; Telnov 2004. **Examined material:** 3 exx: Daugavpils d.: Butišķi, 26.V.2008 (1, valley of the Daugava River, leg. A.Bukejs), 9.IX.2007 (2, valley of the Daugava River, leg. A.Bukejs, M.Balalaikins). Earlier records of this species in Latvia – “Jelgava d.: Tetele, 22.VII.1972 (1, leg. V.Pūtele)” (Pūtele 1974) and “Slītere, 23.VIII.1983 (2, leg. V.Pūtele)” [in the collection of Institute of Biology] were based on misidentifications. **Host plants:** Ranunculaceae. **Phenology:** V, IX. **General distribution:** Europe, Caucasus, Siberia, Kazakhstan, Central Asia (Kyrghyzia), Russian Far East, Korean Peninsula. [ASE] **Note:** Authentically this species is known from single locality in SE Latvia.

(-) *L. minusculus* (Foudras, 1860)

References: Pūtele 1974; Telnov et al. 1997; Telnov 2004; Spuņģis 2008 (misidentification). **Examined material:** Not confirmed by the author. Some earlier records of this species in Latvia – “Slītere, 13.VIII.1983 (1, leg. V.Pūtele)” [in the collection of Institute of Biology] and “Teiču purvs (bog), 22.VIII-21.IX.1992 (1, leg. V.Spuņģis), 22.VIII.1993 (1, leg. V.Spuņģis)” (Spuņģis 2008) were based on misidentification and relate to *L. luridus*. **Host plants:** In the literature (Bieńkowski 2004), *Teucrium*, *Ballota*, *Stachys* and *Sideritis* (Labiatae) are mentioned as host plants. **General distribution:** Europe (Mediterranean part and southern part of C Europe to Erzgebirge, Sudetes and Carpathians), N Africa, Caucasus, Asia Minor. [EUM]

Note: The occurrence of this species in the Latvian fauna is doubtful. Therefore it is deleted from the list of Latvian Coleoptera.

(-) *L. echii* (Koch, 1803)

References: Pūtele 1974.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), *Anchusa*, *Echium* and *Cynoglossum* (Boraginaceae) are mentioned as host plants.

General distribution: Europe (excl. N, northward to C Poland), N Africa, Asia Minor, Caucasus, Afghanistan. [TEM]

Note: The occurrence of the species in the Latvian fauna is doubtful. Therefore it is deleted from the list.

***L. niger* (Koch, 1803)**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007; Bukejs, Telnov 2007 (misidentification).

Examined material: Not confirmed by the author. Earlier record of this species in Latvia – “Daugavpils d.: Stropi, 25.V.2007 (1, old clearing, leg. A.Bukejs)” (Bukejs, Telnov 2007) was based on misidentification.

Host plants: Boraginaceae, mostly on *Anchusa*, *Echium*.

Phenology: VI.

General distribution: Europe, Asia Minor (Turkey), Caucasus. [EUR]

Note: In Latvia, this species is known from single locality in Sigulda (Pūtele 1965).

***L. nigerrimus* (Gyllenhal, 1827)**

References: Müthel 1889; Seidlitz 1887-1891; Rathlef 1905; Palij 1958; Pūtele 1965, 1970a, 1970b, 1971; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author.

Host plants: Lentibulariaceae (*Utricularia vulgaris*).

Phenology: V.

General distribution: N Europe (relicy localities in W and C Europe, Alps), Caucasus, Siberia (east to Amur). [SIE]

Note: In Latvia, this species is known from two localities (Palij 1958; Barševskis 1993). Record needs confirmation.

According to the catalogue of Silfverberg (2004), it is mentioned for all countries.

***L. parvulus* (Paykull, 1799)**

syn.: *ater* Leesberg, 1882

References: Fleischer 1829 (*Altica parvula* Gyll); Seidlitz 1872-1875, 1887-1891; Rathlef 1905; Lindberg 1932; Trauberga 1957; Palij 1958; Pūtele 1959, 1965, 1970a, 1970b, 1971, 1974, 1982; Ozols 1963; Spuris 1974; Priedītis, Pūtele 1976; Barševskis 1993; Telnov et al. 1997; Telnov 2004; Petrova et al. 2006; Kalniņš et al. 2007.

Examined material: 25 exx: Daugavpils d.: Ambelī, 9.V.1993 (3, leg. A.Barševskis); Daugavpils, 2.V.1993 (1, leg. A.Barševskis), Daugavpils, near Mežciems, 1.VI.2008 (1, edge of pine forest, leg. A.Bukejs); Ilgas, Silene Nature Park, 11.VI.2007 (1, leg. U.Valainis); Vabole, 21.II.1997 (2, in hibernation place, leg. R.Cibuļskis), 22.II.1997 (2, in hibernation place, leg. R.Cibuļskis); Vecstropi, 3.V.2008 (2, leg. R.Cibuļskis); Krāslava d.: Piedruja, V.1993 (1, leg. A.Barševskis); Šķeltova, 13.IV.1990 (1, leg. A.Barševskis), 23.IX.1990 (1, leg. A.Barševskis), 22.VIII.1992 (1, leg. A.Barševskis), 9.V.1993 (1, leg. A.Barševskis); Liepāja d.: Pape, 18-25.VII.1995 (1, leg. N.Savenkovs); Rīga: Vecdaugava, 11.VI.1974 (1, leg. anonymous), 17.VI.1974 (2, leg. anonymous), 18.VII.1974 (3, leg. anonymous), 29.VII.1974 (1, leg. anonymous).

Host plants: Boraginaceae (*Linum*). Pest of flax (Palij 1958; Pūtele 1958, 1970c; Ozols 1963; Spuris 1974).

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

General distribution: Europe, N Africa, Asia Minor (Turkey), Near East (Israel), Caucasus, Siberia. [PAL]

Note: One of most common species of the genus in Latvia.

***L. absynthii* Kutschera, 1862**

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), *Artemisia* and *Tanacetum* (Compositae) are mentioned as host plants.

Phenology: VIII, IX.

General distribution: Europe (Austria, Danube basin, Poland, Czechia, Croatia, Hungary,

Rumania, Slovakia, Slovenia, Latvia, England, S Germany, N Italy, S Finland, France, Spain, Sweden), Asia Minor, Near East (Israel), Caucasus, Kazakhstan, Central Asia (Turkmenistan, Uzbekistan), Mongolia. [CAE]
Note: Pūtele (1965) reported this species from two localities. Record needs confirmation. According to the catalogue of Silfverberg (2004), the species is mentioned for Finland, Latvia and Sweden. It is not recorded in Belarus (Lopatin, Nesterova 2005).

(-) *L. obliteratus* (Rosenhauer, 1847)

References: Barševskis 1993 (misidentification); Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author. Earlier report of this species in Latvia – “Krāslava d.: Šķeltova, 23.IX.1990 (1, leg. A.Barševskis)” (Barševskis 1993) was based on misidentification.

Host plants: Labiatae (*Salvia*, *Thymus*, *Origanum*, *Melisa*).

General distribution: W, C and S Europe (northwards to S England and N Poland), NW Africa, Asia Minor, Near East, Caucasus, Iran, Afghanistan, south part of W Siberia, Kazakhstan. [CEM]

Note: There are not faunal data or bibliographical reports of this species for Latvia. Therefore it is deleted from the list of Latvian Coleoptera.

SUBGENUS *TESTERGUS* WEISE, 1893

(-) *L. fuscoaeneus* Redtenbacher, 1849

References: Pūtele 1965, 1968, 1970a, 1970b, 1971; Telnov et al. 1997; Telnov 2004; Kalniņš et al. 2007.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), *Cynoglossum*, *Echium*, *Lithospermum* and *Anchusa* (Boraginaceae) are mentioned as host plants.

General distribution: S and C Europe (north to Ukraine and S Poland), Asia Minor, Near East, Caucasus, Iran, Central Asia. [CAE]

Note: The occurrence of the species in the Latvian fauna is doubtful. Probably, single report of this species in Latvia from Āraiši (Pūtele 1965) was based on misidentification. Therefore it is deleted from the list of Latvian Coleoptera.

***L. anchusae* (Paykull, 1799)**

References: Mikutowicz 1905; Rathlef 1921; Pūtele 1965, 1970a, 1970b, 1971; Barševskis 1993, 2002; Telnov et al. 1997; Telnov 2004.

Examined material: Not confirmed by the author.

Host plants: In the literature (Bieńkowski 2004), Boraginaceae are mentioned as host plants.

Phenology: V, VI, VIII, IX.

General distribution: Europe, Asia Minor (Turkey), Near East, Caucasus, Iraq, Iran, Afghanistan, Kazakhstan, Central Asia, Siberia (Sayans, Altai, Baikal env.). [CAE]

Note: In Latvia, the species is known from 6 localities (Mikutowicz 1905; Pūtele 1965; Barševskis 1993).

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