On Latvian weevils of the subfamily Entiminae (Coleoptera: Curculionidae): Genus *Polydrusus* Germar, 1817

Maksims Balalaikins

Institute of Systematic Biology, Daugavpils University, Vienības iela 13, LV-5401, Daugavpils, Latvia; e-mail: maksims.balalaikins@biology.lv

BALALAIKINS M. 2012. ON LATVIAN WEEVILS OF THE SUBFAMILY ENTIMINAE (COLEOPTERA: CURCULIONIDAE): GENUS *POLYDRUSUS* GERMAR, 1817. – *Latvijas Entomologs* 51: 12-26.

Abstract: Faunal data on ten species of the genus *Polydrusus* Germar, 1817 are presented. A total of 265 specimens of this genus were reviewed. New faunal data on ten species are presented. Bibliographic information on this genus in Latvia is summarised for the first time. The annotated list including ten species and illustrated key to Latvian *Polydrusus* are given.

Key words: Coleoptera, Curculionidae, *Polydrusus*, Latvia, fauna, identification key.

Introduction

There are 194 species of the genus *Polydrusus* Germar, 1817 known in the world fauna (Sleeper 1957, Korotyaev, Meleshko 1997, Korotyaev et al. 2003, Meleshko, Korotyaev 2003, 2005), most of which are native to the Palaearctic region. Of them, 15 species are known from northern Europe (Silfverberg 2004). In Latvian fauna the genus *Polydrusus* is presented by five subgenera and ten species: *Metallites* Germar with single species, *Neoeustolus* Alonso-Zarazaga et Lyal with two species, *Eustolus* Thomson with four species, *Polydrusus* Germar with two species and *Eudipinus* Thomson with single species. In adjacent territories the number of the registered species from this genus differs a little: 13 – Belarus (Alexandrovich et al. 1996), Estonia – 9 species (Silfverberg 2004), Lithuania – 12 (Tamutis et al. 2011), Russian Karelia – 6 (Silfverberg 2011).

The first information on weevils of the genus *Polydrusus* in Latvia was published at the beginning of the 19th century (Fleischer 1829), and about 12 studies appeared with fragmentary information on this genus beetles. Latvian beetles of this genus have been

irregularly investigated. In 1993 A. Barševskis monograph „The beetles of Eastern Latvia" include data about seven species of *Polydrusus*. In 1997 A. Barševskis published check-list of Latvian Curculionidae and faunistic data about 266 species including ten species of genus *Polydrusus*. In recent years only separate data on occurrence of some species have been published (Barševskis 2001, Barševskis et al. 2002, Kalniņš et al. 2007), as well as a list of species of *Polydrusus* can be found in published catalogues of Latvian beetles (Telnov et al. 1997, Telnov 2004). Faunal data on this genus can also be found in articles published by the following authors: Mikutowicz (1905), Lindberg (1932), Lackschewitz, Mikutowicz (1939), Ozols (1982, 1985).

The imagos of the genus *Polydrusus* feed in the foliage of trees and shrubs (*Salix* spp., *Populus* spp., *Betula* spp. and other), and their larvae feed on roots of tree or shrubs species on which adults feed (Yunakov 2003).

Some *Polydrusus* species considered to be parthenogenetic (Dieckmann 1980).

The aim of the current work is to summarise data on the genus *Polydrusus* in Latvia and prepare an original identification key to Latvian species.

Material and methods

265 specimens of weevils were reviewed in this investigation, representing ten species of the genus *Polydrusus*. The examined material is deposited in the collection of the Institute of Systematic Biology of Daugavpils University (DUBC, Daugavpils, Latvia), the entomological collection of the Institute of Biology of the Latvian University (LUBI, Salaspils, Latvia), the collection of the Latvian Natural History Museum (LDM, Rīga, Latvia), the collection of A. Barševskis (Daugavpils, Latvia), the collection of C. Müthel (Latvian Natural History Museum, Rīga, Latvia). The following identification keys were used for identification of specimens: Dieckmann (1980), Hoffmann (1950), Kippenberg (1981), Morris (1997), Palm (1996), Smreczynski (1966), Yunakov (2003). We follow the systematics suggested by Alonso-Zarazaga & Lyal (1999). The nomenclature and synonymy suggested by Silfverberg (2004). A distribution of species and host plants is presented in the following works: Dieckmann (1980), Hoffmann (1950), Legalov (2010), Legalov et al. (2010). Palm (1996), Yunakov (2003), Classification of chorotypes follows as suggested by Vigna-Taglianti et al. (1999). The abbreviations of

chorotypes codes: CAE – Central Asiatic-European, EUR – European, SIE – Sibero-European, WPA – West Palaearctic. The following information is given for each species: scientific name and author, published bibliographic sources for Latvia, faunal data (locality, collecting date, number of collected specimens in brackets, information on the habitat and the collector's name), host plants, phenology (Latvian data only; IV, VI, VII, VIII, IX – months from April to September, respectively; in parentheses – ten-day period), distribution of species and the chorotype code.

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

Explanations of the abbreviations used: d. – administrative district (system of administrative districts used in Latvia from 1991 to 2008), env. – environs, syn. – synonym, NPT – particularly protected nature territory, NP – national park, S – South, N – North, E – East, W – West.

Results and discussion

During the current research, the occurrence of ten species of *Polydrusus* was confirmed for the Latvian fauna. West Palaearctic – single species [*P. impressifrons* Gyllenhal], Sibero-European – five species [*P. undatus* (F.), *P. fulvicornis* (F.), *P. flavipes* (DeGeer), *P. mollis* (Ström), *P. cervinus* (L.)], Central Asiatic-European – two species [*P. corruscus* Germar, *P. pterygomalis* Boheman], European – single species [*P. pallidus* (Gyllenhal)].

A list of *Polydrusus* species of the Latvian fauna

Polydrusus Germar, 1817

Subgenus *Metallites* Germar, 1824

***P. (M.) pallidus* (Gyllenhal, 1834)**

syn.: *atomarius* (Olivier, 1807 nec Linnaeus, 1761)

References: Mikutowicz 1905, Ozols 1982, 1985, Telnov et al. 1997, Telnov 2004.

Examined material: 1 ind.: Saldus d.: Reņģe, 20.05.1934 (1, leg. J. Muskars).

Host plant genera: *Picea, Pinus* (Pinaceae), *Juniperus* (Cupressaceae), *Corylus* (Corylaceae).

Phenology: V.

Distribution: Europe [EUR].

Note: A very rare and insufficiently known species in Latvia, known only from a few localities.

Subgenus *Polydrusus* Germar, 1817

***P. (P.) undatus* (Fabricius, 1781)**

syn.: *tereticollis* auct. nec. (DeGeer, 1775)

References: Seidlitz 1872-1875, 1887-1891, Rathlef 1905, Barševskis 1993, 1997, Telnov et al. 1997, Barševskis 2001, Barševskis et al. 2002, Telnov 2004, Kalniņš et al. 2007.

Examined material: 39 ind.: Balvi d.: Kuprava, 19.05.1991 (1, leg. A. Barševskis); Daugavpils d.: Daugavpils, Rīga-Krāslava beltway, behind Mežciems, 11.05.2008 (1, clearing, leg. A. Barševskis), Dviete flood-lands, Zamečkas castle mound, 18.06. 2010 (1, leg. M. Balalaikins, A. Bukejs), Ilgas, Silene Nature Park, 17.-20.06.2008 (1, leg. J. Daņilova, A. Zdankovska), Pilskalne, Nature Park „Pilskalnes Siguldiņa", 9.05.2005 (3, leg. A. Barševskis); Jēkabpils d.: Dunava, 25.04.1998 (3, leg. A. Barševskis), Rubene, 28.04.1999 (3, leg. I. Leiskina), Viesīte, 15.04.2008 (11, leg. A. Barševskis); Krāslava d.: Baltica, 24.05.1990 (1, leg. A. Barševskis); Liepāja d.: Kazdanga, 7.07.1975 (2, leg. L. Danka); Ludza d.: 1.5 km SW Gāgari, 56°26`44``N 027°50`02``E, 10.05.2008 (2, old clearing, leg. A. Bukejs); Madona d.: Krustkalni Nat. Reserve, 23.05.1991 (1, leg. A. Barševskis), Mārciena, 7.07.2006 (1, near Arona river, leg. A. Pankjāns, A. Barševskis); Preiļi d.: Galēni, 19.05.1991 (1, leg. G. Kukars), Stabulnieki, 24.04.1991 (1, leg. A. Barševskis); Rīga d.: „Pumpuri" (1, on *Betula*, leg. M. Šternbergs); Talsi d.: Dundaga, restricted area „Kaļkupes ieleja", 5.08.2009 (1, window traps, leg. A. Pankjāns), Kaļķupe, Puiškalns, restricted area „Kaļķupe", 2.06.2009 (2, leg. A. Barševskis), Slītere, 06.2002 (1, leg. A. Barševskis).

Host plant genera: *Salix, Populus* (Salicaceae), *Quercus, Fagus* (Fagaceae), *Betula, Alnus* (Betulaceae), *Carpinus, Corylus* (Corylaceae), *Pinus*, *Picea* (Pinaceae).

Phenology: IV-VIII.

General distribution: Europe, N Kazakhstan, Siberia, the Russian Far East, Iran [SIE].

***P. (P.) fulvicornis* (Fabricius, 1792)**

syn.: *ruficornis* (Bonsdorff, 1785 nec Linnaeus, 1758)

References: Fleischer 1829, Seidlitz 1872-1875, 1887-1891, Rathlef 1905, Barševskis 1993, 1997, Telnov et al. 1997, Barševskis 2001, Barševskis et al. 2002, Telnov 2004.

Examined material: 81 ind.: Aizkraukle d.: Koknese, 28.07.1946 (1, leg. A. Strand); Cēsu d.: Dzērbene, 3.07.2006 (1, leg. A. Barševskis, U. Valainis, A. Pankjāns), Lode, 2.-9.07.2001 (1, alder forest, leg. J. Gailis), Vecpiebalga, 3.07.1991 (1, meadow, leg. D. Teļnov); Daugavpils d.: Bebrene, 15.06.2006 (3, leg. E. Rudāns), 18.06.2006 (2, leg. E. Rudāns), Faltopi, 15.06.1989 (2, leg. A. Barševskis), Ilgas, Silene

Nature Park, 13.06.1989 (1, leg. A. Barševskis), 9.06.1992 (1, leg. A. Barševskis), 17.06.1993 (2, leg. A. Barševskis), 28.06.1994 (1, leg. A. Barševskis), 29.06.1994 (1, leg. A. Barševskis), 21.06.1995 (2, leg. A. Barševskis), 06.-07. 2000 (3, leg. I. Haka, G. Hļebnaja), 4.07.2000 (1, leg. A. Barševskis), 2.-10.07.2004 (1, leg. A. Barševskis), Pilskalne, 29.05.1993 (1, leg. A. Barševskis), Šedere, Straumēni house, 5.06.2010 (2, leg. M. Janovska), Vecsaliena, Mārkalne river, Lejzemnieki house, 21.05.2008 (1, leg. A. Pankjāns); Jēkabpils d.: Dunava, 23.06.1993 (4, leg. A. Barševskis), 22.-23.06.1998 (5, leg. A. Barševskis), Jēkabpils, 5.08.1922 (1, leg. J. Muskars), Rubene, 8.06.1998 (1, leg. I. Leiskina), Zasa, 19.06.2000 (1, leg. I. Leiskina); Jelgava d.: Svēte 18.06.1972 (2, bank of river, leg. unknown), Krāslava d.: Baltica, 24.05.1990 (1, leg. A. Barševskis), 25.05.1990 (1, leg. A. Barševskis), Kaplava, 10.07.1991 (1, leg. A. Barševskis), Piedruja, 23.05.1989 (3, leg. A. Barševskis), Ūdrīši, Tartaks, 55°54`15``N 026°48`54``E, 30.05.2008 (1, leg. A. Pankjāns), Šķeltova, Barševski house, 17.07.2008 (1, leg. A. Barševskis); Kuldīga d.: Renda 26.05.1973 (2, leg. M. Šternbergs); Ogre d.: Dzelmes, 12.06.2009 (1, leg. A. Barševskis); Preiļi d.: Jersika, Kurpnieki house, 27.05.2007 (2, leg. A. Barševskis), 23.-24.06.2008 (1, leg. A. Barševskis); Rīga d.: Annuškas 6.08.1969 (1, leg. unknown), Bajārkrogs, 6.07.1969 (3, on *Alnus,* leg. unknown), Garupe, 20.06.1976 (2, leg. S. Burlakovs), 20.06.1976 (2, leg. V. Lazovskis), Saulkrasti, 22.06.1973 (1, leg. M. Šternbergs), Sigulda, 6.06. 1969 (1, meadow, leg. unknown), 19.06.1969 (1, meadow, unknown leg.), 25.06. 1969 (1, forest, leg. unknown), 16.07.1969 (3, leg. unknown), 17.07.1969 (2, meadow, leg. unknown) 27.08.1969 (1, leg. unknown); Saldus d.: Reņģe, 5.05.1932 (1, leg. J. Muskars); Talsi d.: Slītere NP, Pitragsupe, 7.07.2010 (1, leg. R. Cibuļskis), Stende 13.08.1973 (1, leg. M. Šternbergs), 18.08.1973 (1, on *Trifolium*, leg. M. Šternbergs); Valka d.: Trikāta, 23.06.1992 (2, leg. M. Kalniņš); Valmiera d.: Mazsalaca, 15.07.1992 (1, meadow, leg. unknown).

Host plant genera: *Salix* (Salicaceae), *Fagus* (Fagaceae), *Betula, Alnus* (Betulaceae), *Carpinus, Corylus* (Corylaceae), *Rubus*, *Rosa* (Rosaceae).

Phenology: V-VIII.

General distribution: Europe, N and W Kazakhstan, Siberia, the Russian Far East [SIE].

Subgenus *Eustolus* Thomson, 1859

***P. (E.) flavipes* (DeGeer, 1775)**

References: Seidlitz 1872-

1875, 1887-1891, Rathlef 1905, Barševskis 1997, Barševskis 2001, Barševskis et al. 2002, Telnov 2004.

Examined material: 6 ind.: Daugavpils d.: Upīte, 28.07.1992 (1, leg. A. Barševskis); Vabole, 13.07.1997 (1, leg. A. Barševskis); Jēkabpils d.: Tadenava, 1.06. 2002 (1, leg. A. Barševskis); Madona d.: Ošupe, 2.5 km. NE lake Lubāns, 56°50`03``N 26°56`05``E, 6.07.2008 (1, wet meadow, bank of Aiviekste river, leg. M. Balalaikins, A. Bukejs); Talsi d.: Mazirbe, 10.07.2004 (1, leg. A. Barševskis); Ventspils d.: Moricsala nature reserve, 15.07.2008 (1, leg. V. Alekseev, A. Pavlova).

Host plant genera: *Salix, Populus* (Salicaceae), *Betula, Alnus* (Betulaceae), *Quercus* (Fagaceae), *Carpinus* (Corylaceae).

Phenology: VI-VII.

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

***P. (E.) corruscus* Germar, 1824**

References: Mikutowicz 1905, Lindberg 1932, Barševskis 1993, 1997, Telnov et al. 1997, Telnov 2004, Kalniņš et al. 2007.

Examined material: 12 ind.: Daugavpils d.: Butišķi, 1.07.2009 (1, bank of Daugava river, on *Salix*, leg. M. Balalaikins, A. Bukejs), Daugavpils SE env., 2 km. SE Apses, 1.08.2009 (1, bank of Daugava river, on *Salix*, leg. A. Bukejs), Dviete, 12.07. 2009 (2, on *Salix*, leg. M. Balalaikins), Slutišķi, 1.07.1995 (1, Daugava valley, leg. A. Barševskis); Jēkabpils d.: Dunava, 18.07.1995 (1, leg. A. Barševskis), Vandāni, 26.06.2009 (1, bank of Daugava, on *Salix*, leg. M. Balalaikins); Krāslava d.: Indrica, 17.06.1989 (1, leg. A. Barševskis), Piedruja, 07.1988 (2, on Daugava islands, leg. A. Barševskis); Rīga d.: Sigulda, 16.07.1969 (2, on *Salix*, leg. unknown).

Host plant genera: *Salix, Populus* (Salicaceae), *Quercus* (Fagaceae), *Acer* (Aceraceae), *Betula, Alnus* (Betulaceae), *Corylus* (Corylaceae).

Phenology: VI-VIII.

General distribution: Europe, The Caucasus, Turkey, W Kazakhstan, Central Asia, Siberia, the Russian Far East, Mongolia [CAE].

***P. (E.) pterygomalis* Boheman, 1840**

References: Seidlitz 1872-1875, 1887-1891, Rathlef 1905, Lindberg 1932, Telnov et al. 1997, Telnov 2004, Kalniņš et al. 2007.

Examined material: 2 ind.: Daugavpils d.: Ilgas, Silene Nature Park, 20.08.2002 (2, leg. A. Barševskis);

Host plant genera: *Salix, Populus* (Salicaceae), *Quercus, Fagus* (Fagaceae), *Betula* (Betulaceae), *Carpinus, Corylus* (Corylaceae),

Crataegus (Rosaceae).

Phenology: VIII.

General distribution: Europe, the Caucasus, Turkey, Iran, N Kazakhstan, Central Asia, W Siberia [CAE].

***P. (E.) impressifrons* Gyllenhal, 1834**

References: Seidlitz 1872-1875, 1887-1891, Rathlef 1905, Lindberg 1932, Barševskis 1997, Telnov et al. 1997, Telnov 2004, Kalniņš et al. 2007.

Examined material: 9 ind.: Cēsu d.: Līgatne, 11.06.1974 (1, leg. L. Danka); Daugavpils d.: Daugavpils, near Mežciems, 1.06.2008 (1, bank of Daugava river, leg. A. Bukejs), fortress, 17.06.2009 (1, bank of Daugava river, on *Salix*, leg. A. Bukejs), Daugavpils SE env., 2 km. SE Apses, 5.07.2010 (1, bank of Daugava river, on *Salix*, leg. M. Balalaikins), Ilgas, Silene Nature Park, 1994 (1, leg. A. Barševskis); Rīga d.: Sigulda, 12.05.1969 (1, leg. unknown), 16.07.1969 (1, on *Salix*, leg. unknown), Silciems, 30.05.1939 (1, leg. M. Stiprais); Valka d.: Trikāta, 23.06.1992 (1, leg. unknown).

Host plant genera: *Salix, Populus* (Salicaceae), *Quercus, Fagus* (Fagaceae), *Betula, Alnus* (Betulaceae), *Carpinus, Corylus* (Corylaceae), *Ulmus* (Ulmaceae), *Crataegus*, *Rosa* (Rosaceae).

Phenology: V-VII.

General distribution: Europe, Iran, N Africa; introduced to N America [WPA].

Subgenus *Eudipnus* Thomson, 1859

***P. (Eud.) mollis* (Ström, 1768)**

syn.: *micans* (Fabricius, 1792)

References: Fleischer 1829, Seidlitz 1872-1875, 1887-1891, Rathlef 1905, Lindberg 1932, Barševskis 1993, Barševskis 1997, Telnov et al. 1997, Barševskis 2001, Barševskis et al. 2002, Telnov 2004.

Examined material: 41 ind.: Aizkraukle d.: Rīteri, 20.06.2006 (1, leg. A. Barševskis), 05.2009 (6, leg. A. Barševskis), 8.06.2009 (1, leg. R. Orlovskis, A. Barševskis), Skrīveri, arboretum, 26.04.2008 (1, leg. A. Barševskis), 05.2009 (3, leg. A. Barševskis), Daugavpils d.: Bebrene, 16.06.2006 (1, leg. E. Rudāns), Daugavas loki Nature Park, Vecpils, 2,8 km S Naujene, 1,5 km SSW Vecpils, Starozamkovij rov, 55°54`10``N 026°43`51``E, 9.05.2008 (1, Daugava river valley, broad leaved forest and meadowy with glens, leg. U. Valainis), Daugavas loki Nature Park, Vecpils, 2,8 km S Naujene, 1,5 km SSW Vecpils 55°54`10``N 026°43`51``E, 9.05.2008 (1, leg. R. Cibuļskis), Doļnaja, Dvietes flood-lands, Daugava river valley, 18.06.2010 (1, meadow, leg. M. Balalaikins, A. Bukejs), Ilgas,

11.06.1994 (1, leg. A. Barševskis), 2.07.1996 (1, leg. A. Barševskis), 8.-10.06.1998 (1, leg. A. Barševskis), 06.-07.2000 (1, leg. I. Haka, G. Hļebnaja), Naujene, 55°54`44``N 26°49`28``E, 29.04.2008 (2, Daugava river valley, leg. A. Pankjāns, U. Valainis), Šedere, Straumēni house, 1.-3.05.2008 (3, leg. M. Janovska), 10.-11.05.2008 (1, leg. M. Janovska), 1.06.2008 (1, leg. M. Janovska), Šedere, 2.05.2009 (1, near Šarlote lake, leg. M. Janovska), Šedere, NPT Raudas meži, 13.05.2010 (1, leg. K. Aksjuta), Vecsaliena, Mārkalne river, Lejzemnieki house, 21.05.2008 (1, leg. A. Pankjāns); Krāslava d.: Šķeltova, Barševski house, 6.-7.04.1990 (1, leg. A. Barševskis), 1.05.1996 (1, leg. A. Barševskis), 10.06.2010 (1, leg. A. Barševskis, K. Barševska), Saldus d.: Reņģe, 20.05.1934 (2, leg. J. Muskars); Talsi d.: Slītere, 4.05.1998 (1, malayse trap, leg. N. Savenkovs), Slītere National park, 06.2002 (1, leg. U. Valainis, A. Barševskis), 30.05.2006 (1, leg. A. Barševskis), Kaļķupe, Puiškalns restricted area, Kaļķupes valley, 2.06.2009 (1, leg. R. Cibuļskis), Kaļķi, restricted area, Kaļķupes ieleja, 57°32`31``N 022°30`45``E, 12.05.2009 (1, leg. A. Barševskis), 13.07.2009 (1, leg. J. Ivanova).

Host plant genera: *Quercus, Fagus* (Fagaceae), *Carpinus, Corylus* (Corylaceae), *Tilia* (Tiliaceae), *Crataegus* (Rosaceae).

Phenology: IV(1)-VII.

General distribution: Europe, the Caucasus, Turkey, Kazakhstan, Siberia [SIE].

Subgenus *Neoeustolus* Alonso-Zarazaga et Lyal, 1999

***P. (N.) cervinus* (Linnaeus, 1758)**

References: Seidlitz 1872-1875, 1887-1891, Rathlef 1905, Barševskis 1993, Barševskis 1997, Telnov et al. 1997, Telnov 2004, Kalniņš et al. 2007.

Examined material: 36 ind.: Aizkraukle d.: Rīteri, 29.06.2006 (1, leg. A. Pankjans); Daugavpils d.: Daugavpils, 16.06.2005 (1, leg. A. Barševskis), Elerne, 55°55`05``N 26°41`18``E, 19.06.2009 (3, bank of Daugava river, leg. M. Nitcis), Ilgas, Silene Nature Park, 6.06.1994 (1, leg. A. Barševskis), 25.-30.05.1998 (3, leg. A. Barševskis), 29.04.-10.07.2000 (1, leg. A. Rutka), 06.-07. 2000 (1, leg. I. Haka, G. Hļebnaja), 14.-20.06.2002 (1, leg. A. Barševskis) 6.-15.06.2004 (1, leg. A. Barševskis), 28-30.06.2004 (1, leg. A. Barševskis), 7.06.1997 (1, leg. A. Barševskis), 17.06.2008 (1, leg. R. Cibuļskis), 8.06.2009 (2, leg. J. Stašķeviča), Līksna, 3 km. N Daugavpils, 55°56`01``N 026°33`36``E, 28.07.2009 (1, leg. A. Bukejs), Ļubesti, 16.06.2005 (1, leg. U. Valainis), Mežciems, 2.07.1991 (1, leg. A. Barševskis), 28.05.1993

(1, leg. A. Barševskis); Jēkabpils d.: Dunava, 22.-23 .06.2006 (2, leg. A. Barševskis), 23.-30.06.2007 (1, leg. K. Barševska), Rubene, 7.07.1999 (1, leg. I. Leiskina), 4.06.2001 (1, leg. I. Leiskina), Zasa, 22.07.1998 (1, leg. I. Leiskina); Krāslava d.: Krāslava, 5.06.1989 (2, leg. A. Barševskis), Varnaviči, 22.05.1989 (1, leg. A. Barševskis); Rīga d.: Kūdra, 10.06.2000 (1, leg. A. Titovs), 2.06.2006 (2, leg. A. Titovs), 8.06.2006 (2, leg. A. Titovs); Valka d.: Seda, 3.07.2006 (1, Seda bog, leg. A. Barševskis, U. Valainis, A. Pankjāns).

Host plant genera: *Salix, Populus* (Salicaceae), *Quercus* (Fagaceae), *Acer* (Aceraceae), *Betula, Alnus* (Betulaceae), *Tilia* (Tiliaceae), *Corylus* (Corylaceae), Crataegus, *Prunus* (Rosaceae).

Phenology: V-VII.

General distribution: Europe, N Kazakhstan, Siberia [SIE].

***P. (N.) pilosus* Gredler, 1866**

syn.: *binotatus* Thomson, 1868

References: Lackschewitz, Mikutowicz 1939, Barševskis 1993, Barševskis 1997, Telnov et al. 1997, Barševskis 2001, Barševskis et al. 2002, Telnov 2004.

Examined material: 38 ind.: Aizkraukle d.: Aizkraukle, 4.05.1995 (1, forest, clearing, leg. A. Barševskis); Daugavpils d.: Bebrene, Nature park Dvietes palienes, 25.06.2006 (1, leg. E. Rudāns), Daugavpils, beltway between Križi and Ļubesti, 8.06.2001 (1, leg. A. Barševskis), Ilgas, Silene Nature Park, 9.04.1994 (1, leg. A. Barševskis), 21.-24.04.1995 (2, leg. A. Barševskis), 25.-30.05.1998 (1, leg. A. Barševskis), 5.05.1999 (2, leg. A. Barševskis), 6.06.2000 (1, leg. A. Barševskis), 06. –07.2000 (1, leg. I. Haka, G. Hļebnaja), 17.-20.06.2008 (1, leg. J. Daņilova, A. Zdankovska), 8.06.2009 (1, leg. J. Stašķeviča), Ļubesti, 16.06.2005 (2, leg. U. Valainis), Naujene, Daugavas loki Nature Park, 55°54`15``N 026°48`54``E, 23.05.2008 (1, leg. A. Pankjāns) Svente, near the bridge, 16.04.2007 (1, clearing, leg. A. Soldāns); Jēkabpils d.: Asare, 2.05.1998 (1, leg. I. Leiskina), Dunava, 25.04.1998 (1, leg. A. Barševskis), Rubene, 28.04.1999 (1, leg. I. Leiskina), Viesīte, 15.04.2008 (6, leg. A. Barševskis); Krāslava d.: Indrica, 29.05.1991 (1, leg. A. Barševskis); Ludza d.: 1.5 km SW Gāgari, 56°26`44``N 027°50`02``E, 10.05.2008 (2, old clearing, leg. A. Bukejs); Ogre d.: 4km. NW Dīrikupīte river connect with Daugava river 3.05.2006 (1, leg. A. Barševskis, U. Valainis, E. Rudans); Rēzekne d.: Puša, 27.05.2002 (1, leg. A. Barševskis), 26.06.2002 (1, leg. A. Barševskis), Rušenīca, 30.04.2010 (1, leg. M. Balalaikins); Rīga d.: Jūrmala, Kūdra, 11.05.1997 (1, leg.

A. Titovs), 7.05.2006 (1, leg. A. Titovs), 1.06.2008 (1, leg. A. Titovs), 13.05.2010 (1, leg. A. Titovs); Talsi d.: Slītere National Park 06.2002 (1, leg. A. Barševskis), „Zilie kalni", 2.05.2006 (1, leg. A. Barševskis).

Host plant genera: *Salix, Populus* (Salicaceae), *Fagus* (Fagaceae), *Betula, Alnus* (Betulaceae), *Sorbus* (Rosaceae).

Phenology: IV(1)-VI.

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

A key to the Latvian *Polydrusus*

1 All femora with tooth 2
- Femora without tooth 4
2 All femora with very small tooth. Upper surface black-brown, elytra often duller, legs and antennae yellow or rufous. Body length 4.0-5.5 mm. Habitus (Fig. 10) ... *P. pallidus*
- All femora with distinct tooth 3
3 All femora covered only with very thin scales. Body length 5.0-6.5 mm. Habitus (Fig. 3) ..... *P. pilosus*
- All femora covered with two different in shape scales, very thin ones and other lanceolate scales. Body length 3.9-5.7 mm. Habitus (Fig. 2) ..... *P. cervinus*
4 All tibiae with longitudinal keels (Fig. 5). Upper surface covered with fine, narrow, linear, shining coppery or golden green scales. Body length 6.0-8.5 mm. Habitus (Fig. 1) ..... *P. mollis*
- Tibiae without longitudinal keels (Fig. 6) 5
5 Upper surface covered with brown and grey, not metallic scales, usually forming a pattern of irregular, oblique stripes on elytra, especially on posterior half 6
- Upper surface covered with green or greenish-blue scales 7
6 Pronotum with two lateral transversal impressions Body length 3.2-5.2 mm. Habitus (Fig. 4) ..... *P. fulvicornis*
- Pronotum without lateral transversal impressions Body length 4.0-5.8 mm. Habitus (Fig. 5) ..... *P. undatus*
7 Vertex with two distinct tuberculus in lateral sides. Upper surface covered with bright golden-green scales and with erect setae. Body length 3.8-5.6 mm. Habitus (Fig. 6). Aedeagus (Fig. 8) ..... *P. pterygomalis*
- Vertex without tuberculus in lateral sides 8
8 Rostrum not shorter than its width (Fig. 12). Frons with impression. Pronotum almost cylindrical. Upper surface covered with bright golden-green scales and with very short semi-erect dark setae. Body length 3.8-5.3 mm. Habitus (Fig. 7). Aedeagus (Fig. 9) ..... *P. impressifrons*
- Rostrum distinctly shorter, than its width (Fig. 11) 9
9 Upper surface covered with dense metalic-green scales and without erect setae. Frons with impression. Body length 4.0-5.6 mm. Habitus (Fig. 9). Aedeagus (Fig. 7) .... *P. corruscus*

- Upper surface covered with not dense metalic-green scales and with erect setae. Frons flat or slightly convex. Body length 4.4-5.6 mm. Habitus (Fig. 8). Aedeagus (Fig. 10) ..... *P. flavipes*

Acknowledgements

For the presented material, we are grateful to Vitaliy Alexeev and Anastasiya Pavlova (Kaliningrad, RU), Kristīne Aksjuta, Arvīds Barševskis, Raimonds Cibuļskis, Marina Janovska, Māris Nitcis, Ainārs Pankjāns, Arvis Soldāns, Uldis Valainis (all - Daugavpils University Institute of Systematic biology, LV), Katrīna Barševska and Iveta Leiskina (Daugavpils, LV), Aleksandrs Titovs (Rīga, LV), and students of Daugavpils University. Special thanks are due to Jānis Dreimanis and Nikolajs Savenkovs (LDM, Riga, LV) and Aina Karpa (LUBI, Salaspils, LV) for their permission to work with the collections.

We also express our sincere thanks to Nikolai Yunakov (St. Petersburg, RU) for constructive advice.

Current research has been done within the framework of the project of European Social Fund (No .2009/0206/1DP/1.1.1.2.0/09/APIA/VIAA/010).

References

Alexandrovich O.R., Lopatin I.K., Pisanenko A.D., Tsinkevitch V.A. and Snitko S.M. 1996. *A catalogue of Coleoptera (Insecta) of Belarus.* Minsk, Fund Fundamental Research of Republic of Belarus: 53-61 (in Russian).

Alonso-Zarazaga M.A., Lyal C.H.C. 1999. *A world catalogue of families and genera of Curculionoidea (Insecta: Coleoptera) (Excepting Scolytidae and Platypodidae).* Barcelona, Entomopraxis: 315 pp.

Barševskis A. 1993. *The Beetles of Eastern Latvia.* Daugavpils, Saule: 221 pp. (in Latvian, English abstract).

Barševskis A. 1997. Materials about Latvian beetles (Coleoptera). – *Acta coleopterologica latvica* **1**, No. 2: 63-71 (in Latvian, English summary).

Barševskis A. 2001. New and rare species of beetles (Insecta: Coleoptera) in the Baltic states and Belarus. – *Baltic Journal of Coleopterology* **1**, No. 1/2: 3-18.

Barševskis A. 2002. Beetles (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.) *Fauna, flora and vegetation of Silene Nature Park.* Daugavpils, Baltic Institute of Coleopterology: 37-60 (in Latvian).

Dieckmann L. 1980. Beiträge zur Insektenfauna der DDR: Coleoptera – Curculionidae (Brachycerinae, Otiorhynchinae, Brachyderinae). – *Beiträge zur Entomologie Berlin* **30**: 145-310.

Egorov A.B., Zherikhin V.V., Korotyaev B.A. 1996. Family Curculionidae – Weevils. In: Ler P.A. (ed.) *Guides to the insects of the Russian Far East.* Volume **3**. Coleoptera or beetles. Part 3. Vladivostok, Dalnauka: 249-311 (in Russian).

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, Kurländische Gesellschaft für Literatur und Kunst* **1**, No. 2: 9-19.

Hoffmann A. 1950. *Faune de France. vol. 52. Coléoptères Curculionides (I Partie).* Paris, Federation Française des Societes des Sciences Naturelles: 486 pp.

Kippenberg H. 1981. Unterfamilie. Brachycerinae. In: Freude H., Harde K., Lohse G.A. (eds) *Die Käfer Mitteleuropas*. Volume **10**, Krefeld, Goecke & Evers: 183-278.

Korotyaev B.A., Meleshko J.Y. 1997. On the systematics of the weevil genus *Polydrusus* (Coleoptera: Curculionidae). – *Zoosystematica rossica* **6** No. 1/2: 275-286.

Korotyaev B.A., Ismailova M.S., Melehko J.E. 2003. A new species of the weevil genus *Polydrusus* Germ. (Coleoptera, Curculionidae) from Mountain Daghestan. – *Entomologicheskoe obozrenie* **82** No. 2: 437-443 (In Russian).

Lackschewitz T., Mikutowicz J. 1939. Zur Koleopterenfauna des ostbaltischen Gebietes, II. – *Korrespondenzblatt des Naturforscher-Vereins zu Riga* **63**: 48-76.

Legalov A.A. 2010. Annotated checklist of species of superfamily Curculionoidea (Coleoptera) from Asian Part of the Russia. – *Amurian zoological journal* **2**, No. 2: 93-132.

Legalov A.A., Ghahari H., Arzanov Y.G. 2010. Annotated catalogue of Curculionid-beetles (Coleoptera: Anthribidae, Rhynchitidae, Attelabidae, Brentidae, Brachyceridae, Dryophtoridae and Curculionidae) of Iran. – *Amurian zoological journal* **2**, No, 3: 191-244.

Lindberg H. 1932. Käfer, gesammelt in Lettland 1931. – *Folia*

zoologica et hydrobiologica **4**, No. 2: 163-166.

Meleshko J.E., Korotyaev B.A. 2003. A new species of the weevil genus *Polydrusus* (Coleoptera, Curculionidae) from Turkey. – *Zoologicheskii zhurnal* **82**, No. 9: 1129–1132 (In Russian).

Meleshko J.E., Korotyaev B.A. 2005. Two new species of the weevil genus *Polydrusus* Germar (Coleoptera, Curculionidae) from Iran. In: Konstantinov A.S., Tishechkin A., Penev L. (eds). *Contributions to Systematics and Biology of Beetles. Papers Celebrating the 80th Birthday of Igor Konstantinovich Lopatin.* Series Faunistica **43**, Sofia–Moscow, Pensoft Publishers: 289-297.

Mikutowicz J. 1905. Zur Koleopterenfauna der Ostseeprovinzen Russlands, I. – *Korrespondenzblatt des Naturforscher-Vereins zu Riga* **48**: 73-92.

Morris M.G. 1997. *Broad-nosed weevils (Coleoptera: Curculionidae) (Entiminae). Handbooks for the identifcation of British insects.* Volume **5** No. 17a. Royal Entomology Society, London: 106 pp.

Ozols G. 1982. Investigation of the fauna of dendrophagous beetles of pine and spurce in the Latvian SSR. – *Latvijas Entomologs* **25**: 20-36 (in Latvian, English abstract).

Ozols G. 1985. *The materials on insects of pine and spruce in Latvian forests.* Rīga, Zinātne: 208 pp. (in Latvian).

Palm E. 1996. *North European weevils. 1. The short-nosed species (Coleoptera: Curculionidae) - with special reference to the Danish fauna.* Stensrup, Apollo Books: 356 pp.

Rathlef H. 1905. *Coleoptera Baltica. Käfer-Verzeichnis der Ostseeprovinzen nach den Arbeiten von Ganglbauer und Reitter.* Dorpat, C. Mattiesen: 16+199 pp.

Seidlitz G. 1872-1875. *Fauna Baltica. Die Kaefer (Coleoptera) der Ostseeprovinzen Russlands.* Dorpat, H. Laakmann: 4+ XLII+142+560 pp.

Seidlitz G. 1887-1891. *Fauna Baltica. Die Kaefer (Coleoptera) der Ostseeprovinzen Russlands. Zweite neu bearbeitete Auflage mit 1 Tafel.* Königsberg, Hartungsche Verlagsdruckerei: 12+LVI+192+818 pp.

Silfverberg H. 2011. Enumeratio renovata Coleopterorum Fennoscandiae, Daniae et Baltiae. – *Sahlbergia* **16** No. 2: 1-144.

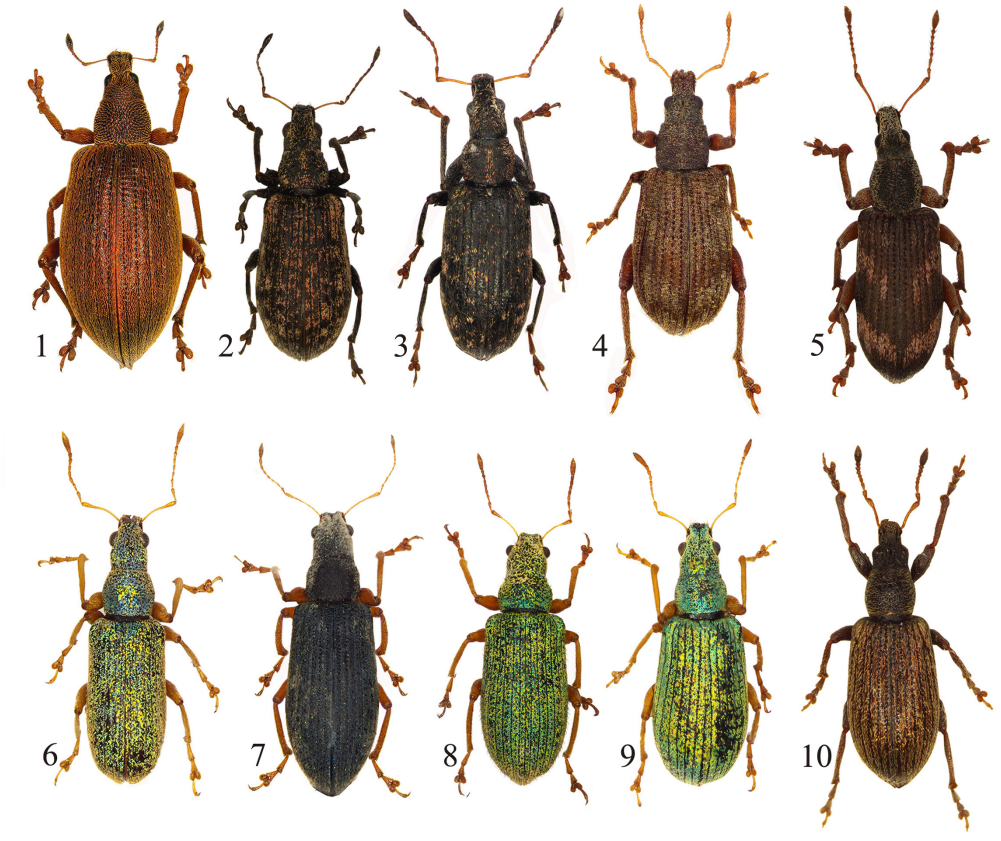
Sleeper E.L. 1957. Notes on

North American species of *Polydrusus* Germar (Coleoptera: Curculionidae, Brachyderinae). – *The Ohio Journal of science* **57**, No. 3: 129 – 134.

Smreczynski S. 1966. *The key for identification of Polish insects. Beetles – Coleoptera. Weevils – Curculionidae. Subfamilies: Otiorhynchinae, Brachyderinae.* Volume 19, No, 98b. Warsaw, Polish Scientific Publishers: 130 pp.

Tamutis V., Tamutė B., Ferenca R. 2011. A catalogue of Lithuanian beetles (Insecta, Coleoptera). – *ZooKeys* **121**: 1–494.

Telnov D. 2004. *Check-List of Latvian Beetles (Insecta: Coleoptera).* Second edition. In: Telnov D. (ed.) *Compendium of Latvian Coleoptera*. Volume **1**. Rīga,



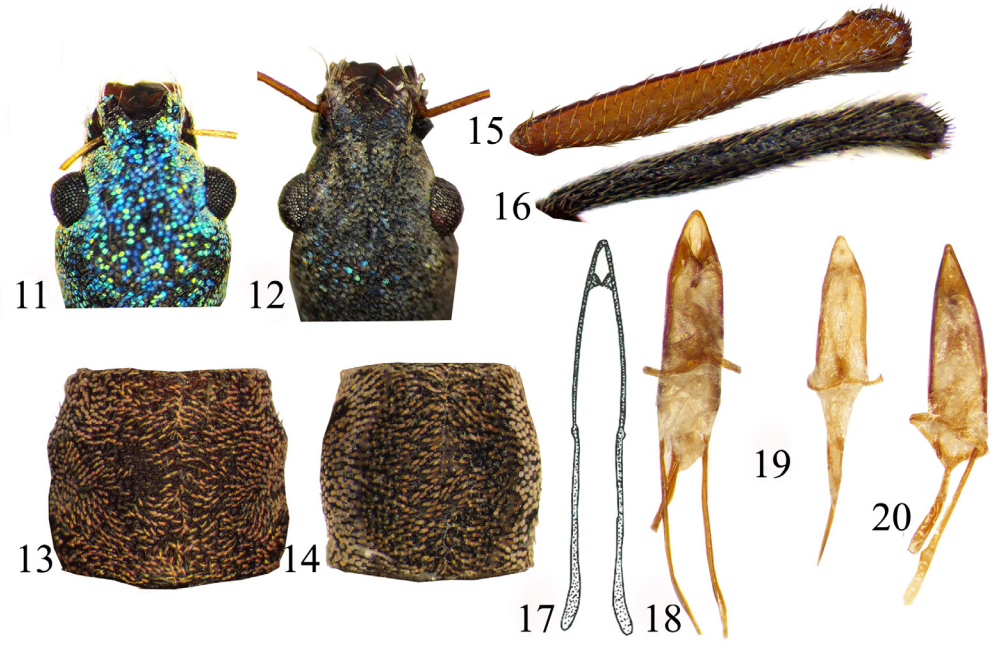
Figures 1-10. Species of *Polydrusus*, habitus (dorsal view): 1 - *P. mollis*, 2 - *P. cervinus*, 3 - *P. pilosus*, 4 - *P. fulvicornis*, 5 - *P. undatus*, 6 - *P. pterygomalis*, 7 - *P. impressifrons*, 8 - *P. flavipes*, 9 - *P. corruscus*, 10 - *P. pallidus*.

Pertovskis & Ko: 114 pp.

Telnov D., Barsevskis 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 e.V.,* Supplementum **5**: 1-140 pp.

Yunakov N.N. 2003. *Weevils of subfamily Entiminae (Coleoptera, Curculionidae) in Ukraine.* Unpublished doctoral theses. Zoological Institute of the Russian Academy of Sciences, St. Peterburg, Russia: 489 pp.

Received: September 23, 2011.



Figures 11-20. Morphological details of *Polydrusus* species. 11-12 rostrum (dorsal view): 1 - *P. flavipes*, 2 - *P. impressifrons*; 13-14 pronotum (dorsal view): 13 - *P. fulvicornis*, 14 - *P. undatus*; 15-16 front tibiae: 15 - *P. mollis*, 16 - *P. pilosus*; 17-20 aedeagus (dorsal view): 17 - *P. corruscus* (after Palm 1996), 18 - *P. pterygomalis*, 19 - *P. impressifrons*, 20 - *P. flavipes*.