

## New data on the leaf beetle fauna (Coleoptera: Chrysomelidae) of the southern Far East of Russia

### Новые данные к фауне жуков-листоедов (Coleoptera: Chrysomelidae) юга Дальнего Востока России

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**Key words:** Biodiversity, fauna, new records, leaf beetle, *Longitarsus*, East Palearctic.

**Ключевые слова:** биоразнообразие, фауна, новые указания, жуки-листоеды, *Longitarsus*, восточная Палеарктика.

**Abstract.** *Longitarsus osimaensis* Takizawa, 2015 and its previously unknown food plant are presented for the first time for the fauna of Russia. *Oulema duftschmidi* (L. Redtenbacher, 1846) is reported for the first time for the Russian Far East. New localities in the Russian Far East are given for a further 13 species.

**Резюме.** Впервые для фауны России приведён *Longitarsus osimaensis* Takizawa, 2015, и указано его ранее неизвестное кормовое растение. Впервые для Дальнего Востока России отмечен *Oulema duftschmidi* (L. Redtenbacher, 1846). Ещё для 13 видов установлены новые местонахождения на Дальнем Востоке России.

## Introduction

Leaf beetles are one of the largest groups of herbivorous beetles in the Russian Far East in terms of species number and, according to preliminary estimates, comprise three families (Chrysomelidae, Orsodacnidae, and Megalopodidae), 114 genera and more than 500 species. Leaf beetles are most abundant in the southern Russian Far East, where all three families and more than 80 % of all species known from the Far East are found [Medvedev, 1992, 2011, 2014, 2018; Medvedev, Skomorokhov, 2009; Mikhailov, Chashchina, 2009; Guskova, 2012; Sergeev, 2020, 2022, 2023, 2024; Romantsov, 2021, 2023; Legalov, Sergeev, 2022; Sergeev, Legalov, 2022; Dubatolov, 2024]. At the same time, the species composition of leaf beetles in the Khabarovskii Krai and the Jewish Autonomous Oblast was found to be no more than half of the total. This paper presents faunal finds that allow us to expand our understanding of the faunal diversity of leaf beetles not only in the south, but also in the Russian Far East as a whole, and indicates the prospects for further research in this region.

## Materials and methods

The work was based on collection materials: Federal Scientific Centre of the East Asia Terrestrial Biodiversity,

FEB RAS (FSCV), Institute of Systematics and Ecology of Animals, SB RAS (ISEA), Zoological Institute RAS (ZIN). We also used material collected by the author in Primorski Krai in 2018 and 2023, and in Khabarovskii Krai in 2019. Information on food plants is given according to the «Catalogue of Leaf Beetle Food Plants of the USSR» [Medvedev, Rogynskaya, 1988]. The material that has been collected by the author is given in the annotated list without the name of the collector. Abbreviations: Chuk. — Chukotka; Kamch. — Kamchatka; Mag. — Magadanskaya oblast; Khab. — Khabarovskii Krai; Prim. — Primorski Krai; JAO — Jewish Autonomous Oblast; Amur. — Amur oblast; Sakh. — Sakhalin; Kur. — Kuril Island.

Photographs were taken with the stereomicroscope Olympus SZX16 and digital camera Olympus DP74 and stacked using Helicon Focus software. The final illustrations were postprocessed for contrast and brightness using Adobe Photoshop® software.

Annotated list of leaf beetle species collected in the southern Far East of Russia is given in Appendix (p. 16–17).

The present work is registered in ZooBank (www.zoobank.org) under LSID urn:lsid:zoobank.org:pub:1C129B4D-BDEC-4B52-81DE-A3F7547CD640

## Results

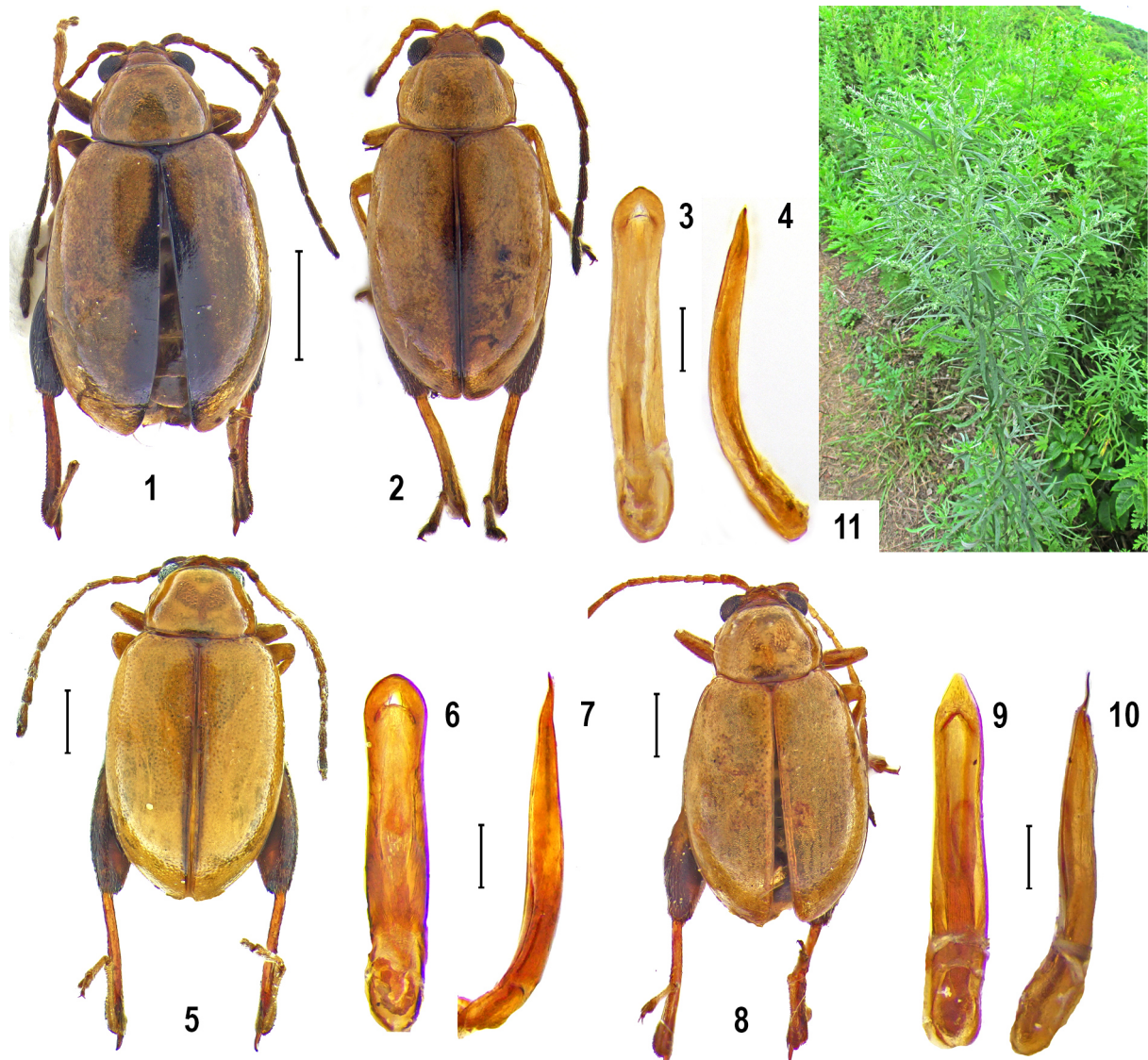
As a result of the research carried out, *Longitarsus osimaensis* is presented for the first time for the fauna of Russia. Details of morphology of *Longitarsus osimaensis* (Figs 1–4) compared to *L. tabidus* (Figs 5–7) and *L. foudrasi* (Figs 8–10) are given. Also, the external view of *L. osimaensis* food plant is provided (Fig. 11). The species is currently known only from the islands of Hokkaido and Furugelma. New to the fauna of the Russian Far East, *Oulema duftschmidi*, is a widespread Palearctic species. Like its sister species *O. melanopus*

(Linnaeus, 1758), *O. duftschmidi* lives here at the eastern limit of its range. Among the other species recorded are those that are widespread both in the Palearctic (*Altica oleracea*, *Cassida vittata*, *Chrysolina sanguinolenta*) and in East Asia (*Altica fragariae*, *Nonarthra cyanea*, *Cassida piperata*, *Cryptocephalus nobilis*, etc.). Of particular interest are the species found in the high mountains of Sikhote-Alin: *Altica oleracea*, *Agelastica coerulea*, *Phyllotreta erysimi baicalica*. The leaf beetle fauna of the highlands of the Russian Far East is not rich in species. Among them there are species specific to these habitats (*Apterocuris brinevi* Mikhailov, 2023)

[Sergeev, 2024] and species with a wide range, spreading in biotopes following their host plants.

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Figs 1–11. Details of morphology of the *Longitarsus* Latreille species: *Longitarsus osimaensis* (1–4), and *L. tabidus* (5–7) and *L. foudrasi* (8–10) (both from Donetsk env.), female (1) and male (2–10). 1, 2, 5, 8 — external appearance, dorsal view; 3–4, 6–7, 9–10 — aedeagus; 11 — external view of *L. osimaensis* food plant. Scale bars 1, 2 — 1 mm, 3, 4, 6, 7, 9, 10 — 0.2 mm, 5, 8 — 0.5 mm.

Рис. 1–11. Детали строения видов рода *Longitarsus* Latreille: *Longitarsus osimaensis* (1–4), и *L. tabidus* (5–7) и *L. foudrasi* (8–10) (оба из окр. Донецка), самки (1) и самца (2–10). 1, 2, 5, 8 — внешний вид сверху; 3–4, 6–7, 9–10 — эдеагус; 11 — внешний вид кормового растения *L. osimaensis*. Масштаб: 1, 2 — 1 мм, 3, 4, 6, 7, 9, 10 — 0,2 мм, 5, 8 — 0,5 мм.

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**Appendix to the article:** M.E. Sergeev. New data on the leaf beetle fauna (Coleoptera: Chrysomelidae) of the southern Far East of Russia. (Euroasian Entomological Journal. 2024. Vol.23. No.6. P.344–346).

**Приложение к статье:** М.Е. Сергеев. Новые данные к фауне жуков-листоедов (Coleoptera: Chrysomelidae) юга Дальнего Востока России. (Евразийский энтомологический журнал. 2024. Т.23. Вып.6. С.344–346).

## Annotated list of leaf beetle species collected in the southern Far East of Russia

### Chrysomelidae Latreille, 1802

Criocerinae Latreille, 1807

#### *Oulema* Des Gozis, 1886

*Oulema (Oulema) duftschmidi*

(L. Redtenbacher, 1846)

**Material.** Primorskii Krai: 1 ex. — Kedrovaya Pad' Reserve (43°06' N, 131°31' E), VII–VIII.1956, R. Regalin det. (ZIN).

**Distribution.** Russia: Prim., Caucasus, European part, Afghanistan, C Asia, Iran, Syria, Lebanon, Israel, Jordan, Turkey, Transcaucasia, Europe, N Afrika [Bezdek, Baselga, 2015; Sergeev, 2018].

**Remarks.** On Poaceae.

Cassidinae Gyllenhal, 1813

#### *Cassida* Linnaeus, 1758

*Cassida (Cassida) conha* Solsky, 1872

**Material.** Khabarovskii Krai: 1 экз. — Nanaisky district, env. Malmyzh village (49°51' N, 136°45' E), meadow by the lake, 3.VII.1974, V.A. Mutin (FSCV).

**Distribution.** Russia: Khab., Prim., Amur. Japan, N and S Korea, N and C China, Taiwan [Medvedev, 1992; Kimoto, Takizawa, 1994; Cho, An, 2020].

**Remarks.** On Caryophyllaceae. New record for Khabarovskii Krai.

*Cassida (Cassida) mandli* Spaeth, 1921

**Material.** Jewish Autonomous Oblast: 1 ex. — Volochaevka st. (48°35' N, 134°34' E), 23.VII.1979, S.Yu. Storozhenko (FSCV).

**Distribution.** Russia: Prim., JAO, Amur. N and S Korea, S and SE China, Mongolia [Medvedev, 1992; Cho, An, 2020].

**Remarks.** On *Artemisia* (Asteraceae). New record for Jewish Autonomous Oblast.

*Cassida (Cassida) piperata* Hope, 1842

**Material.** Khabarovskii Krai: 2 ex. — near Khabarovskii, Maly Khekhtsir ridge, Ilyinka vill., vegetable garden, 27.VI.2022, A.M. Dolgikh (ISEA).

**Distribution.** Russia: Khab., Prim., Amur. Japan, N and S Korea, China, Taiwan, Philippines [Medvedev, 1992; Kimoto, Takizawa, 1994; Cho, An, 2020]. **Remarks.** On *Amaranthus*, *Atriplex*, *Chenopodium* (Chenopodiaceae); *Commelina* (Commelinaceae); *Achyranthes* (Amaranthaceae). New record for Khabarovskii Krai.

*Cassida (Cassida) vittata* Villers, 1789

**Material.** Primorskii Krai: 1 ex. — env. Razdolnoye vill. (34 km NW of Ussuriysk), 11.VI.2023 (FSCV); 2 ex. — Golubinyy utes (7 km NE of Khasan), 12.VII.2023 (FSCV).

**Distribution.** Russia: Prim., south of E Siberia, N Caucasus. Japan, S Korea, Uzbekistan, Kazakhstan, Israel, Turkey, Europe [Medvedev, 1992; Kimoto, Takizawa; Cho, An, 2020]. New record for Primorskii Krai.

**Remarks.** On *Urtica* (Urticaceae); *Spergula* (Caryophyllaceae).

Chrysomelinae Latreille, 1802

#### *Chrysolina* Motschulsky, 1860

*Chrysolina (Stichoptera) sanguinolenta*

(Linnaeus, 1758)

**Material.** Khabarovskii Krai: 1 экз. — env. village Pivan (20 km SE of Komsomolsk-on-Amur), 10.IX.1979, V.A. Mutin (FSCV).

**Distribution.** Russia: Khab., Prim., E and W Siberia, S Ural, N Caucasus, European part, Mongolia, Kyrgyzstan, Kazakhstan, Turkey, Europe [Medvedev, 1992; Biełkowski, 2004; Gus'kova, 2010; Cho, An, 2020].

**Remarks.** On *Linaria* (Scrophulariaceae), *Plantago* (Plantaginaceae). New record for Khabarovskii Krai.

Galerucinae Latreille, 1802

#### *Galerucella* Crotch, 1873

*Galerucella (Neogalerucella) medvedevi*

Beenen, 2008.

**Material.** Amurskaya oblast: 1 ex. — env. Natalino village (86 km S of Blagoveshchensk), pine wood, 10.VI.1975, V.N. Kuznetsov (FSCV).

**Distribution.** Russia: S Kur., Khab., Prim., Amur., south of E Siberia [Biełkowski, 2024]. New record for Amurskaya oblast.

*Agelastica* Chevrolat, 1836

*Agelastica coerulea* Baly, 1874.

**Material.** Khabarovskii Krai: 1 ex. — Khekhtsir ridge, near the stream, 12.VIII.1979, G.Sh. Lafer (FSCV); 1 ex. — Tardoki-Yani ridge, h=1350 m., meadow with willows, 26.VI.1980, G.Sh. Lafer (FSCV).

**Distribution.** Russia: S Kur. (Kunashir), Kamch., Khab., Prim., JAO, Amur., E Siberia. Japan, N and S Korea, NE China, N Америка [Medvedev, 1992; Kimoto, Takizawa, 1994; Cho, An, 2020].

**Remarks.** On *Alnus*, *Betula*, *Corylus* (Betulaceae); *Salix* (Salicaceae); *Castanea* (Fagaceae). New record for Khabarovskii Krai.

*Altica* Geoffroy, 1762

*Altica oleracea oleracea* (Linnaeus, 1758)

**Material.** Khabarovskii Krai: 2 ex. — Tardoki-Yani ridge, mountain tundra, h=1700 m., 28.VI.1980, G.Sh. Lafer (FSCV).

**Distribution.** Россия: Камч., S Kur., Sakh., S Khab., Prim., Amur., E Siberia, S Ural, N Caucasus, European part. Japan, N and S Korea, China, Mongolia, Kyrgyzstan, Kazakhstan, Iran, Turkey, Georgia, Europe, Israel, N Africa [Medvedev, 1992; Gus'kova, 2010; Sergeev, 2018; Suenaga, 2020].

**Remarks.** On *Epilobium*, *Oenothera* (Onagraceae); Polygonaceae; *Cirsium*, *Carduus* (Asteraceae). New record for Khabarovskii Krai.

*Altica fragariae* (Nakane, 1955)

**Material.** Primorskii Krai: more than 10 ex. — Golubinyy utes (7 km NE of Khasan), 13.VII.2023 (FSCV); 8 ex. — env. Novitskoe vill. (5 km S of Partiznisk), 26.VII.2023 (FSCV).

**Distribution.** Russia: S Sakh., S Prim., Amur. Japan, N and S Korea, NE China [Medvedev, 1992; Cho, An, 2020; Suenaga, 2020].

**Remarks.** On *Potentilla* (Rosaceae). New record for Primorskii Krai.

**Longitarsus** Latreille, 1829

*Longitarsus (Longitarsus) osimaensis* Takizawa, 2015  
Figs 1–4, 11.

**Material.** Primorskii Krai: 8 ex. — Furugelm Isl. (25 km NE of Khasan), 17–22.VIII.2018 (FSCV).

**Distribution.** Russia: S Prim. Japan (Hokkaido) [Takizawa, 2015; Sergeev, 2019].

**Remarks.** We have observed the feeding of the species *Artemisia* aff. *umbrosae* (Asteraceae) (Fig. 11). The previous records of *Longitarsus tabidus tabidus* (Fabricius, 1775) [Sergeev, 2019] are incorrect and belong to *Longitarsus osimaensis*. Based on Takizawa [2015], *L. osimaensis* shares many morphological characters with *L. tabidus*. However, the latter differs in the structure of the aedeagus, host plants of the genus *Verbascum* and *Veronica* (Scrophulariaceae) [Medvedev, Rogynskaya, 1988], and is not found east of the south of western Siberia and Mongolia [Medvedev, 1982, 1992]. Figs. 1–10 show photographs of imago and aedeagus specimens of *L. osimaensis*, *L. tabidus*, and a closely related species, *L. foudrasi* Weise, 1893. *L. foudrasi* also feeds on various *Verbascum* species (Fig. 11). It is known from the Amur oblast of the Russian Far East [Medvedev, 1992]. New record for Primorskii Krai.

**Neocrepidodera** Heikertinger, 1911

*Neocrepidodera obscuritarsis* (Motschulsky, 1859)

**Material.** Khabarovskii Krai: 1 ex. — Anyuisky National Park, 60 km E from Lidoga, 31.VII.2019 (FSCV).

**Distribution.** Russia: Sakh., S Khab., Prim., JAO, Amur. Japan, N and S Korea, SW China [Medvedev, 1992; Kimoto, Takizawa, 1994; Medvedev, Skomorokhov, 2009].

**Remarks.** On *Artemisia* (Asteraceae); *Plantago* (Plantaginaceae); *Persicaria* (Polygonaceae). New record for Khabarovskii Krai.

**Nonarthra** Baly, 1862

*Nonarthra cyanea cyanea* Baly, 1874

**Material.** Khabarovskii Krai: 1 ex. — Ussurka basin, Birskoye vill. (=10 km NE from Lermontovka), 10.VI.1958, Kostyakov (FSCV).

**Distribution.** Russia: S Kur. (Kunashir), S Khab., S Prim., S Amur. Japan, N and S Korea, NE, C and SW China, N Vietnam [Medvedev, 1992; Kimoto, Takizawa, 1994; Cho, An, 2020; Makarov, 2024].

**Remarks.** On Asteraceae. New record for Khabarovskii Krai.

**Phyllotreta** Chevrolat, 1836

*Phyllotreta erysimi baicalica*

Heikertinger, 1941.

**Material.** Khabarovskii Krai: 4 ex. — Tardoki-Yani ridge, mountain tundra, h=1700 m., 28.VI.1980, G.Sh. Lafer (FSCV).

**Distribution.** Russia: Mag., S Khab., S Prim., Amur., E Siberia. Mongolia [Medvedev, 1982; 1992].

**Remarks.** On Brassicaceae. New record for Khabarovskii Krai.

Cryptocephalinae Gyllenhal, 1813

**Cryptocephalus** Geoffroy, 1762

*Cryptocephalus (Cryptocephalus) nobilis*

Kraatz, 1879

**Material.** Jewish Autonomous Oblast: 1 ex. — Dichun river (48.59N, 130.80 E), 25.VII.1978, Konovalova (ZIN).

**Distribution.** Россия: Amur., JAO, S Prim. Japan, N and S Korea [Medvedev, 1992; Kimoto, Takizawa, 1994; Cho, An, 2020]. New record for Jewish Autonomous Oblast.

**Remarks.** On *Quercus* (Fagaceae); *Prunus* (Rosaceae). New record for Jewish Autonomous Oblast.

*Cryptocephalus (Cryptocephalus) peliopterus*  
*peliopterus* Solsky, 1872

**Material.** Jewish Autonomous Oblast: 1 ex. — Pashkovo vill. (35 km SW of Obluchye), 9.VI.1977, (collector unknown) (ZIN).

**Distribution.** Russia: S Prim., JAO, Amur., E and W Siberia. Japan, S Korea, N and NE China [Medvedev, 1992; Kimoto, Takizawa, 1994; Cho, An, 2020].

**Remarks.** On *Betula*, *Corylus* (Betulaceae); *Populus* (Salicaceae); *Ulmus* (Ulmaceae); *Quercus* (Fagaceae). New record for Jewish Autonomous Oblast.