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New data on the leaf beetle fauna (Coleoptera: Chrysomelidae) from the Russian Far East

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Abstract. This article presents new data on the fauna and distribution of leaf beetles in the Russian Far East. *Chaetocnema koreana* Chûjô, 1942, a species previously unknown in Russia, has been found in the southern part of the Primorskiy Region. The genus *Kytorhinus* Fischer von Waldheim, 1809 and the species *Kytorhinus pectinicornis* (Melichar 1912), are newly recorded from the Kuril Islands. Five species are newly recorded for Sakhalin Island: *Phaedon armoraciae* (Linnaeus, 1758), *Chrysolina sanguinolenta* (Linnaeus, 1758), *Gonioctena sibirica* (Weise, 1893), *Longitarsus succineus* (Foudras, 1860) and *Psylliodes amurensis* Nadein, 2006. The species *Longitarsus fulgens* Foudras, 1860 is newly recorded from the Primorskiy Region. Data on the distribution of *P. amurensis* and *Chaetocnema transbaicalica* Heikertinger, 1951 in the Russian Far East have been clarified.

Key words: Bruchinae, Chrysomelinae, Galerucinae, fauna, morphology, new records, East Palaearctic.

Новые данные по фауне жуков-листоедов (Coleoptera: Chrysomelidae) Дальнего Востока России

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Резюме. Приведены новые данные по фауне и распространению жуков-листоедов Дальнего Востока России. *Chaetocnema koreana* Chûjô, 1942, впервые указанный для фауны России вид, обнаружен на юге Приморского края. Род *Kytorhinus* Fischer von Waldheim, 1809 и вид *Kytorhinus pectinicornis* (Melichar, 1912) впервые указаны для Курильских островов. Пять видов впервые приведены для острова Сахалин: *Phaedon armoraciae* (Linnaeus, 1758), *Chrysolina sanguinolenta* (Linnaeus, 1758), *Gonioctena sibirica* (Weise, 1893), *Longitarsus succineus* (Foudras, 1860) и *Psylliodes amurensis* Nadein, 2006. *Longitarsus fulgens* Foudras, 1860 впервые приводится для Приморского края. Уточнены данные о распространении на Дальнем Востоке России *P. amurensis* и *Chaetocnema transbaicalica* Heikertinger 1951.

Ключевые слова: Bruchinae, Chrysomelinae, Galerucinae, фауна, морфология, новые указания, Восточная Палеарктика.

Introduction

Currently, the leaf beetle fauna of the Russian Far East consists of three families (Megalopodidae, Orsodacnidae, and Chrysomelidae), 11 subfamilies, 119 genera, and 559 species [Sergeev, 2025]. However, further examination of the collection materials deposited at the Federal Scientific Center of the East Asia Terrestrial Biodiversity of the Far Eastern Branch of the Russian Academy of Sciences (FSCEATB FEB RAS, Vladivostok, Russia), revealed several new records for the fauna of the Far East and Russia.

Material and methods

This study is mainly based on the material collected by the author in Primorskiy Region and on Sakhalin Island from 2018 to 2022, as well as on specimens from the collection of FSCEATB FEB RAS (registration number 2797657) and materials provided for analysis by entomologist Dr K.A. Ostapenko (Vladivostok, Russia). The article also includes material collected by Dr V.A. Nechaev (1936–2018), a Soviet and Russian ornithologist who conducted research on Sakhalin for many years. All the studied material is deposited in the collection of the FSCEATB FEB RAS. Photographs were taken using a Olympus SZX16 stereomicroscope and a Olympus DP74 digital camera, and stacked using Helicon Focus software. The final illustrations were post-processed for contrast and brightness using Adobe Photoshop software.

Family Chrysomelidae Latreille, 1802
Subfamily Bruchinae Latreille, 1802
Genus *Kytorhinus* Fischer von Waldheim, 1809

Kytorhinus pectinicornis (Melichar, 1912)
(Figs 1, 2)

Kytorhinus pectinicornis: Legalov, 2011: 263; Sergeev, 2019: 125; Sergeev, 2025: 641.

Material. Russia, Sakhalin Region: 8 ex., Urup Island, Chernoburka Bay, 9.08.2000 (A.S. Lelej, S.Yu. Storozhenko).

Notes. In the mainland part of its distribution, *K. pectinicornis* inhabits mountain tundra and rocky scree slopes [Legalov, 2011; Sergeev, 2019]. On Urup Island, the beetles were collected on a vegetation on the sea coast. The species feeds and develops on Hedysarum (Fabaceae).

Distribution. Russia: the North Caucasus, Ural, East Siberia (Magadan Region, Kamchatka, north of Primorskiy Region, Kuril Islands (Urup) (new record)). Europe (Austria, Germany), Georgia, Kazakhstan, Kyrgyzstan, Mongolia, North America [Legalov, 2011; Sergeev, 2025].

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Subfamily Chrysomelinae Latreille, 1802
Genus *Phaedon* Latreille, 1829
Phaedon armoraciae (Linnaeus, 1758)
(Figs 3–6)

Phaedon armoraciae: Medvedev, 1982: 86; Bieńkowski, 2004: 71; Sergeev, 2025: 655.

Material. Russia, Sakhalin Island: 3 ex., Lunskiy Bay, 25 km SE Nogliki vill., 07.2022 (K.A. Ostapenko).

Notes. It inhabits damp, unsalted meadows, river valleys, bogs, and among water plants. Feeds on Plantaginaceae, Brassicaceae and Ranunculaceae [Dubeshko, Medvedev, 1989; Bieńkowski, 2025].

Distribution. Russia: European part, the North Caucasus, south of West Siberia, East Siberia (Magadan, Khabarovsk, Primorskiy regions, north of Sakhalin (new record)). Europe, Kyrgyzstan, Mongolia, China (Xinjiang, Ningxia, Beijing, Hebei) [Medvedev, 1992; Bieńkowski, Orlova-Beńkovskaya, 2017; Bieńkowski, 2025].

Genus *Chrysolina* Motschulsky, 1860
Chrysolina (*Stichoptera*) *sanguinolenta*
(Linnaeus, 1758)
(Figs 7, 8)

Chrysolina sanguinolenta: Lopatin, 1977: 147; Bieńkowski, 2004: 53; Sergeyev, 2018: 46; Sergeev, 2025: 649.

Material. Russia, Sakhalin Island: 2 ex., 61 km N Nogliki vill., environs of Val vill., floodplain of Val River, 1975 (V.A. Nechaev); 1 ex., floodplain of Okha River, 20.06–28.07.1988 (V.A. Nechaev).

Notes. The species occurs in dry sandy meadows, on river banks, and on low mountain slopes, feeding on Linaria (Scrophulariaceae) and Plantago (Plantaginaceae) [Medvedev, Roginskaya, 1988; Dubeshko, Medvedev, 1989].

Distribution. Russia: European part, the North Caucasus, south of Ural, south of West Siberia, East Siberia (south of Khabarovsk Region, Primorskiy Region, Sakhalin (new record)). Europe, Turkey, Armenia, Azerbaijan, Iran, Kazakhstan, Kyrgyzstan, Mongolia [Medevedev, 1992; Bieńkowski, Orlova-Beńkovskaya, 2017; Bieńkowski, 2025].

Genus *Gonioctena* Chevrolat, 1836
Gonioctena (*Gonioctena*) *sibirica* (Weise, 1893)
(Figs 9–12)

Gonioctena sibirica: Medvedev, 1982: 89; Cho, An, 2020: 12; Kippenberg, Mikhailov, 2024: 357; Sergeev, 2025: 654.

Material. Russia, Sakhalin Island: 1 ex., 38 km NE Korsakov, Lesnoe vill., Ochepukha River floodplain, 1980 (V.A. Nechaev).

Notes. Typical habitats are mixed and floodplain forests. Beetles and larvae feed on Prunus and Sorbus (Rosaceae) [Dubeshko, Medvedev, 1989].

Distribution. Russia: European part, south of West Siberia, East Siberia (Chukotka, Magadan and Khabarovsk regions, Jewish Autonomous Region, Amur and Primorskiy regions, Sakhalin (new record)). Mongolia, China (Jilin), North and South Korea, Japan (Hokkaido) [Bieńkowski, Orlova-Beńkovskaya, 2017; Bieńkowski, 2025; Sergeev, 2025].

Subfamily Galerucinae Latreille, 1802
Genus *Chaetocnema* Stephens, 1831
Chaetocnema koreana Chûjô, 1942
(Figs 13–15)

Chaetocnema koreana Chûjô, 1942: 33 (type locality: Korea, "Mt. Bazi-San, Kankyo-Hokudo", the holotype is deposited in Taiwan Agricultural Institute (Taipei, Taiwan) not studied); Konstantinov et al., 2011: 198–202; Cho, An, 2020: 15; Bezděk, Konstantinov, 2024a: 497.

Material. Russia, Primorskiy Region: 1 ex., Terney environs, floodplain of Serebryanka River, 15.09.2018 (M.E. Sergeev); 2 ex., 5 km SW Barabash vill., Kedrovaya Pad' Nature Reserve, 10.05.2019 (M.E. Sergeev); 1 ex., Pokrovka vill. environs, Sinelovka Mt., 7.05.2022 (M.E. Sergeev).

Notes. *Chaetocnema koreana* is morphologically similar to *Ch. transbaicalica* Heikertinger, 1951, which is known from Primorskiy Region, Transbaikalia, Buryatia, Mongolia [Konstantinov et al., 2011]. In the Russian Far East, *Ch. transbaikalica* has been recorded only in Primorskiy Region, while reports from other regions (Chukotka, Kamchatka, Magadan and Amur regions) are incorrect [Sergeev, 2025]. The main difference between these two species is the shape of the aedeagus:

1(2). Apical denticle of aedeagus absent. Ventral longitudinal groove in apical part of aedeagus not developed, absent in middle, poorly developed in basal half. Minute transverse wrinkles presented only in basal half of ventral side of aedeagus .... *Ch. transbaicalica*

2(1). Apical denticle of aedeagus presented, slightly differentiated. Ventral longitudinal groove developed from base to apical half. Minute transverse wrinkles presented in both apical and basal halves of ventral side of aedeagus (Figs 14, 15) ..... *Ch. koreana*

Distribution. Russia: Primorskiy Region (new record for the country). China (Heilongjiang), North and South Korea, Japan (Hokkaido, Honshu) [Konstantinov et al., 2011].

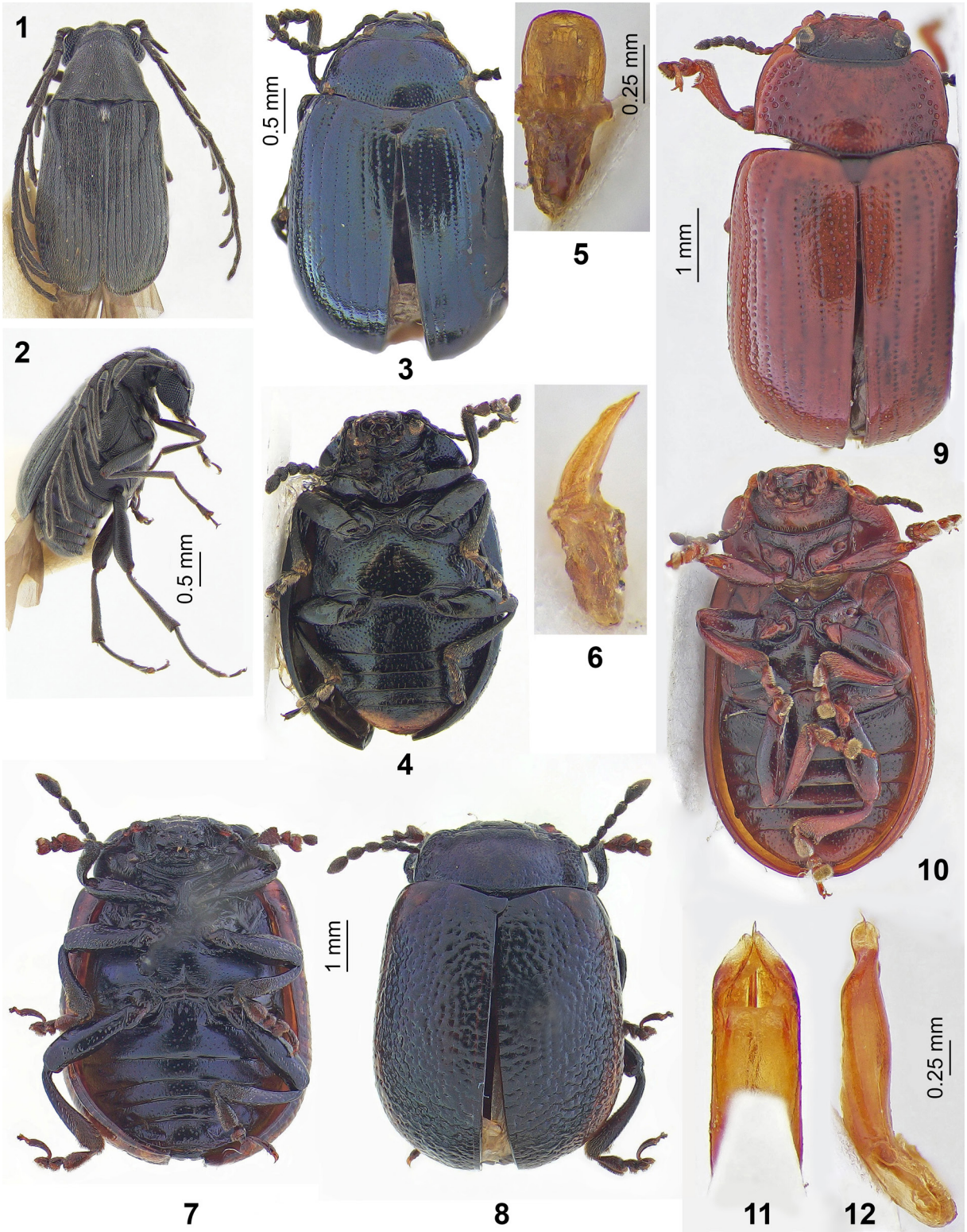
Genus *Longitarsus* Latreille, 1829
Longitarsus fulgens (Foudras, 1860)
(Figs 16–18)

Longitarsus fulgens: Bieńkowski, 2004: 106; Sergeyev, 2018: 77; Bezděk, Konstantinov, 2024b: 524; Romantsov, 2025: 56.

Material. Russia, Primorskiy Region: 1 ex., Barabash-Levada environs, 23.05.2022 (M.E. Sergeev); 6 ex., Pokrovka vill. environs, Sinelovka Mt., 1.06.2022 (M.E. Sergeev); 2 ex., same locality, 4.07.2022 (M.E. Sergeev); 5 ex., same locality, 10–15.07.2024 (M.E. Sergeev).

Notes. This species inhabits mainly forest-steppe areas. The author was unable to examine specimens from Amur Region [Bieńkowski, Orlova-Beńkovskaya, 2017]. Nevertheless, the morphological characteristics of the beetles collected in Primorskiy Region, along with the distinctive shape of the aedeagus, fully match the description of *L. fulgens* provided by Romantsov [2025].

Distribution. Russia: European part, the North Caucasus (Krasnodar Region, Dagestan), south of East Siberia (Khakassia), Amur Region (Norskiy Reserve), south of Primorskiy Region (new record). Europe, Georgia, Azerbaijan [Bieńkowski, Orlova-Beńkovskaya, 2017; Sergeyev, 2018; Bieńkowski, 2025].

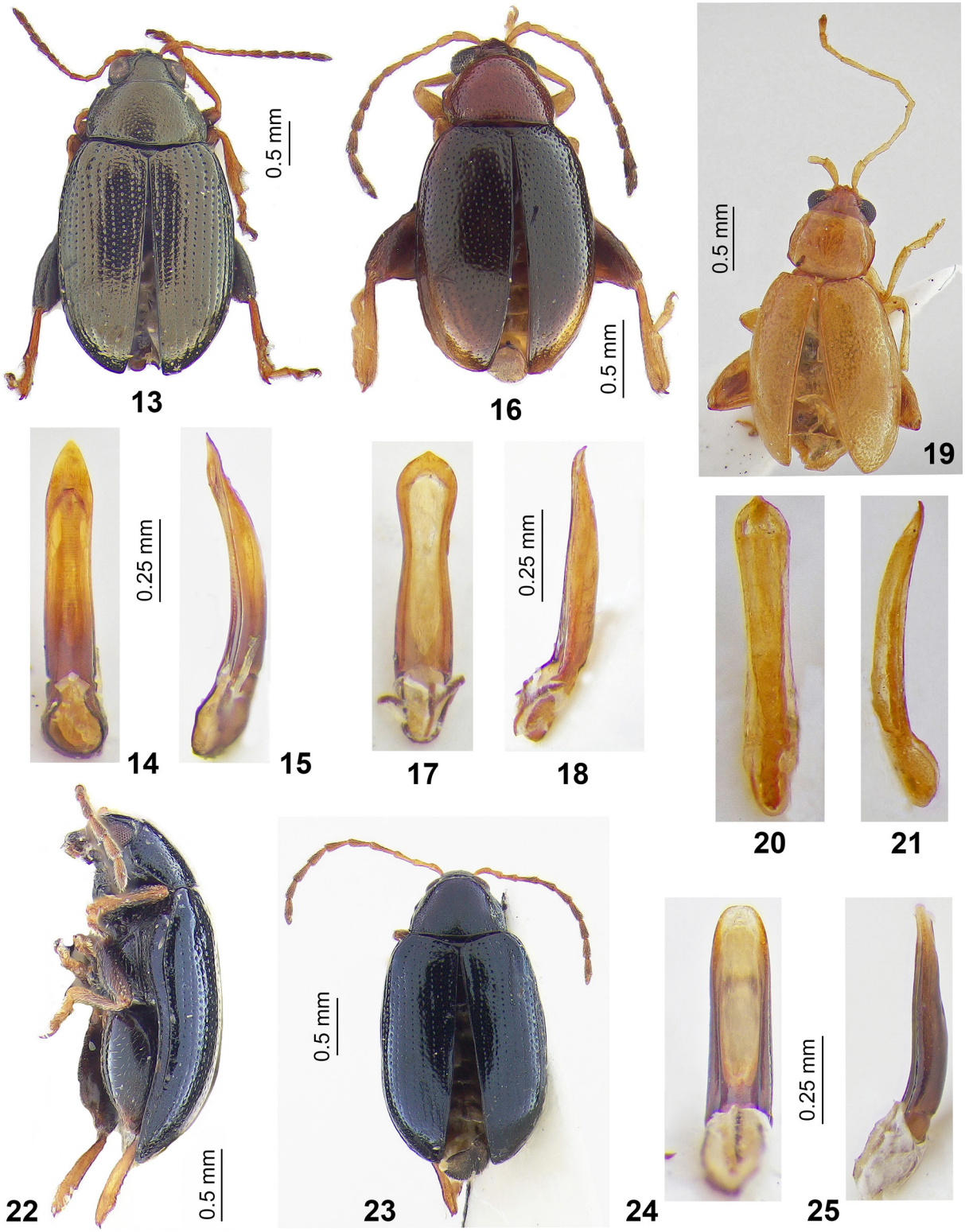


Figs 1–12. Chrysomelidae from the Russian Far East, habitus, male genitalia.

1–2 – *Kytorhinus pectinicornis*; 3–6 – *Phaedon armoraciae*; 7–8 – *Chrysolina sanguinolentha*; 9–12 – *Gonioctena sibirica*. 1–4, 7–10 – imago: 1, 3, 8–9 – dorsal view, 2 – lateral view, 4, 7, 10 – ventral view; 5–6, 11–12 – aedeagus: 5, 11 – dorsal view, 6, 12 – lateral view.

Рис. 1–12. Chrysomelidae с российского Дальнего Востока, габитус, гениталии самца.

1–2 – *Kytorhinus pectinicornis*; 3–6 – *Phaedon armoraciae*; 7–8 – *Chrysolina sanguinolentha*; 9–12 – *Gonioctena sibirica*. 1–4, 7–10 – имаго: 1, 3, 8–9 – дорсально, 2 – латерально, 4, 7, 10 – вентрально; 5–6, 11–12 – эдеагус: 5, 11 – дорсально, 6, 12 – латерально.



Figs 13–25. Chrysomelidae from the Russian Far East, habitus, male genitalia.

13–15 – *Chaetocnema koreana*; 16–18 – *Longitarsus fulgens*; 19–21 – *Longitarsus succineus*; 22–25 – *Psylliodes amurensis*. 13, 16, 19, 22–23 – imago: 13, 16, 19, 23 – dorsal view, 22 – lateral view; 14–15, 17–18, 20–21, 24–25 – aedeagus: 14, 17, 20, 24 – dorsal view, 15, 18, 21, 25 – lateral view.

Рис. 13–25. Chrysomelidae с российского Дальнего Востока, габитус, гениталии самца.

13–15 – *Chaetocnema koreana*; 16–18 – *Longitarsus fulgens*; 19–21 – *Longitarsus succineus*; 22–25 – *Psylliodes amurensis*; 13, 16, 19, 22–23 – имаго: 13, 16, 19, 23 – дорсально, 22 – латерально; 14–15, 17–18, 20–21, 24–25 – эдеагус: 14, 17, 20, 24 – дорсально, 15, 18, 21, 25 – латерально.

Longitarsus succineus (Foudras, 1860)
(Figs 19–21)

Longitarsus succineus: Lopatin, 1977: 216; Medvedev, 1982: 116; Bieńkowski, 2004: 113; Sergeyev, 2018: 84; Bezděk, Konstantinov, 2024b: 534; Sergeev, 2025: 683.

Material. Russia, Sakhalin Island: 1 ex., Korsakov environs, 29.09.2000 (A.B. Egorov); 9 ex., 8 km from Nevelsk, Yasnomorskoe vill. environs, 20–21.07.2019 (M.E. Sergeev); 2 ex., 28 km S Nevelsk, near Shebunino vill., 25.07.2019 (M.E. Sergeev).

Notes. The species inhabits sparse forests, dry meadows, and steppe habitats. Imagoes and larvae feed and develop on Asteraceae [Medvedev, Roginskaya, 1988; Dubeshko, Medvedev, 1989].

Distribution. Russia: European part, the North Caucasus, south of the Urals, West Siberia, East Siberia (Khabarovsk, Amur, Jewish Autonomous and Primorskiy regions, Sakhalin (new record)). Europe, Turkey (Anatolia), Cyprus, Israel, Georgia, Azerbaijan, Iran, Kazakhstan, Uzbekistan, Tajikistan, Kyrgyzstan, Afghanistan, Mongolia, China (Beijing, Gansu, Shaanxi, Fujian, Sichuan), North and South Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu), Nepal, India, Vietnam, Canada [Medvedev, 1992; Sergeyev, 2018; Bieńkowski, 2025].

Genus *Psylliodes* Latreille, 1829
Psylliodes amurensis Nadein, 2006
(Figs 22–25)

Psylliodes amurensis Nadein, 2006: 931 (holotype: ♂, "promysel Ozerpakh, liman of Amur, Chernavin, 3.VIII.915", deposited in the Zoological Institute of the Russian Academy of Sciences (St Petersburg, Russia), not studied); Nadein, 2007: 357; Bezděk, Konstantinov, 2024c: 564; Sergeev, 2025: 687.

Material. Russia, Sakhalin Island: 1 ex., Nogliki environs, 19.08.2000 (A.B. Egorov); Primorskiy Region: 1 ex., Vladivostok environs, floodplain of Bogataya River, 07.2023 (K.A. Ostapenko).

Notes. The record from Amur Region is erroneous [Sergeev, 2025]. This species belongs to the *punctifrons* species-group, that also includs *P. cyanescens* Weise, 1887, *P. subrugosus* Jacoby, 1885, and *P. laxa* 2006 [Nadein, 2006, 2007]. The main difference from the closely related species *P. subrugosus* lies in the structure of the aedeagus:

1(2). Apical portion of aedeagus with slightly pronounced impression at tip ..... *P. amurensis*
2(1). Apical portion of aedeagus with a wide and deep indentation at tip ..... *P. subrugosus*

Distribution. Russia: Khabarovsk and Primorskiy regions, Sakhalin (new record).

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