

**THE LEAF BEETLES (COLEOPTERA: CHRYSOMELIDAE) OF THE FAR EASTERN STATE MARINE RESERVE, PRIMORSKII KRAI**

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**Summary.** An annotated list of 55 species in 35 genera of leaf beetles of the Far Eastern Marine Biosphere Reserve is given. The genus *Lythraria* Bedel, 1897 and three species, *L. salicariae* (Paykull, 1800), *Longitarsus tabidus tabidus* (Fabricius, 1775) and *Cassida denticollis* Suffrian, 1844), are recorded from the Russian Far East for the first time. The genus *Pallasiola* Jakobson, 1925 and two species, *P. absinthii* (Pallas, 1771) and *Cassida mongolica* Boheman, 1854, are newly recorded from Primorskii krai.

**Key words:** leaf beetles, fauna, new records, Peter the Great Bay, Russian Far East.

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**Резюме.** Приводится аннотированный список 55 видов из 35 родов жуков-листоедов Дальневосточного морского заповедника. Впервые для Дальнего Востока России указываются род *Lythraria* Bedel, 1897 и три вида: *L. salicariae* (Paykull, 1800), *Longitarsus tabidus tabidus* (Fabricius, 1775) и *Cassida denticollis* Suffrian, 1844, а для Приморского края – род *Pallasiola* Jakobson, 1925 и два вида: *P. absinthii* (Pallas, 1771) и *Cassida mongolica* Boheman, 1854.

**INTRODUCTION**

The Far Eastern State Marine Biosphere Reserve is located in Peter the Great Bay, on the west side of the Sea of Japan. There are four distinct areas with different biological and protection regimes, covering 63,000 ha (240 sq mi) of sea area, as well as Bolshoi Pelis, Matveev, Stenin, Furugelm, Popov and other small islands (with total area 1316 ha). While the fauna of the leaf beetles of Primorskii krai is diverse (Medvedev, 1992, 1998; Mikhailov & Chashchina, 2009; Medvedev, 2010; Sergeev, 2017), the data of the Far Eastern State Marine Reserve was unknown. The faunistic data on the Chrysididae from neighboring area (Vasiliev, 1964) require critical analysis and verification.

This paper is based on the material collected by the author (MS) in August 2018 in the Furugelm Island (42°28' N, 130°55' E) and Popov Island (42°57' N, 131°43' E), as well as on collections of the Institute of Systematics and Ecology of Animal (Novosibirsk, Russia, ISEA) and Federal Scientific Center of East Asian Terrestrial Biodiversity (Vladivostok, Russia, FSCB). An annotated list of species is given below.

## LIST OF THE SPECIES

### Family Chrysomelidae

#### Subfamily Criocerinae

##### *Lema diversa* Baly, 1873

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 6 ex. (MS).

DISTRIBUTION. Russia (Primorskii krai). – China, Korea, Japan (Schmitt, 2010).

##### *Lema pygmaea* Kraatz, 1879

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Khabarovskii krai, Primorskii krai). – China, Korea (Schmitt, 2010).

##### *Oulema septentrionis* (Weise, 1880)

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (European part, Siberia, Khabarovskii krai, Primorskii krai) (Bieńkowski, 2004).

#### Subfamily Cryptocephalinae

##### *Cryptocephalus exiguus amicus* (Baly, 1873)

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 7 ex. (MS); Popov Island, 26.VIII 2018, 4 ex. (MS).

DISTRIBUTION. Russia (Baikal, Zabaikalskii krai, Amurskaya oblast, Primorskii krai, Sakhalin, Kuril Islands). – Turkey, Mongolia, North China, Japan (Lopatin *et al.*, 2010).

##### *Cryptocephalus fulvus fuscolineatus* (Chûjô, 1940)

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 4 ex. (MS).

DISTRIBUTION. Russia (South Siberia, Amurskaya oblast, Primorskii krai, Sakhalin, Kuril Islands). – North China, Korea, Japan (Lopatin *et al.*, 2010).

##### *Cryptocephalus gussakovskii* Lopatin, 1952

MATERIAL. **Russia:** Furugelm Island, at light, 19.VIII 2018, 3 ex. (MS).

DISTRIBUTION. Russia (Primorskii krai). – North China, Korea, Japan (Lopatin *et al.*, 2010).

##### *Cryptocephalus bipunctatus cautus* (Weise, 1893)

MATERIAL. **Russia:** Furugelm Island, 8.VII 1975, 1 ex. (leg. Veligzhanin) (ISEA).

DISTRIBUTION. Russia (Zabaikalskii krai, Amurskaya oblast, Primorskii krai). – North China, Korea (Lopatin *et al.*, 2010).

##### *Cryptocephalus regalis regalis* Gebler, 1830

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 17 ex. (MS); Popov Island, 27.VIII 2018, 12 ex. (MS).

DISTRIBUTION. Russia (Siberia from Altai to Zabaikalskii krai, Yakutia, Amurskaya oblast, Primorskii krai). – Mongolia, North China, Korea, Japan (Lopatin *et al.*, 2010).

***Pachybrachis amurensis* L. Medvedev, 1973**

MATERIAL. **Russia:** Furugelm Island, 15.VII 2012, 2 ex. (leg. Shabalin) (FSCB).

DISTRIBUTION. Russia (Magadanskaya oblast, Amurskaya oblast, Khabarovskii krai, Primorskii krai). – Mongolia (Schöller *et al.*, 2010).

***Pachybrachis ochropygus* Solsky, 1872**

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 7 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – North China, Korea (Schöller *et al.*, 2010).

***Smaragdina aurita hammastroemi* Jacobson, 1901**

MATERIAL. **Russia:** Popov Island, 26.VIII 2018, 3 ex. (MS).

DISTRIBUTION. Russia (Siberia, Amurskaya oblast, Khabarovskii krai, Primorskii krai). – Mongolia, China (Regalin & Medvedev, 2010).

**Subfamily Eumolpinae**

***Basilepta fulvipes* (Motschulsky, 1860)**

MATERIAL. **Russia:** Popov Island, 26.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (Zabaikalskii krai, Amurskaya oblast, Primorskii krai, Kuril Islands). – Mongolia, China Korea (Moseyko & Schprecher-Uebersax, 2010).

***Bromius obscurus* (Linnaeus, 1758)**

MATERIAL. **Russia:** Furugelm Island, 18.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Holarctic species (Moseyko & Schprecher-Uebersax, 2010).

***Pagria ussuriensis* Moseyko et L. Medvedev, 2005**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (south part of Khabarovskii krai, Primorskii krai). – Northeast China, Korea (Moseyko & Medvedev, 2005).

**Subfamily Chrysomelinae**

***Chrysolina aurichalcea* (Mannerheim, 1825)**

MATERIAL. **Russia:** Furugelm Island, 18.VII 2012, 2 ex. (leg. Shabalin) (FSCB); Popov Island, 27.VIII 2018, 4 ex. (MS).

DISTRIBUTION. Russia (European part, Siberia, Far East). – Kazakhstan, Mongolia, China, Japan, Laos, Vietnam (Kippenberg, 2010).

***Chrysolina koltzei lamii* Takizawa, 1970**

MATERIAL. **Russia:** Furugelm Island, 18.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (South Siberia, Amurskaya oblast, Primorskii krai, Sakhalin, Kuril Islands). Siberia, Far East). – Japan (Kippenberg, 2010).

***Chrysolina exanthematica exanthematica* (Weidemann, 1821)**

MATERIAL. **Russia:** Furugelm Island, 22.IX 2012, 1 ex. (leg. Belyaev); Popov Island, 9.VIII 1965, 1 ex. (leg. Kupyanskaya) (FSCB).

DISTRIBUTION. Russia (European part, Siberia, Amurskaya oblast, Khabarovskii krai, Primorskii krai, Sakhalin, Kuril Islands). – Kazakhstan, Japan, China, Nepal, Pakistan, Oriental region (Kippenberg, 2010).

***Gonioctena fulva* (Motschulsky, 1861)**

MATERIAL. **Russia:** Popov Island, 8.VIII 1965, 2 ex. (leg. Kupyanskaya) (FSCB).

DISTRIBUTION. Russia (Baikal, Zabaikalskii krai, Amurskaya oblast, Primorskii krai). – China, Vietnam (Kippenberg, 2010).

***Phaedon cochleariae cochleariae* (Fabricius, 1792)**

MATERIAL. **Russia:** Stenin Island, 42°43' N, 131°30' E, 2.VI 1999, 1 ex. (leg. Klimov) (FSCB).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – Europe, Kazakhstan, Turkey, Mongolia (Kippenberg, 2010).

**Subfamily Galerucinae**

***Agelastica coerulea* Baly, 1874**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Kamchatka, Amurskaya oblast, Primorskii krai). – China, Korea, Japan (Beenen, 2010).

***Phyllobrotica signata* (Mannerheim, 1825)**

MATERIAL. **Russia:** Furugelm Island, 16.VII 2012, 2 ex. (leg. Belyaev) (FSCB).

DISTRIBUTION. Russia (South Siberia, Amurskaya oblast, Primorskii krai). – Mongolia, China, Korea (Beenen, 2010).

***Atrachya menetriesii* (Faldermann, 1835)**

MATERIAL. **Russia:** Popov Island, at light, 27.VIII 2018, 3 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai, Sakhalin, South Kuril Islands). – China, Korea, Japan (Beenen, 2010).

***Pallasiola absinthii* (Pallas, 1771)**

MATERIAL. **Russia:** Furugelm Island, 30–31.VII 1975, 3 ex. (leg. Veligzhanin) (ISEA).

DISTRIBUTION. Russia (European part, South Siberia, Amurskaya oblast). – Kazakhstan, Mongolia, China (Beenen, 2010).

***Galeruca daurica* (Joannis, 1865)**

MATERIAL. **Russia:** Furugelm Island, at light, 17–22.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (South Siberia, South Yakutia, Amurskaya oblast, Primorskii krai). – Mongolia, China, Korea (Beenen, 2010).

***Galeruca heydeni* Weise, 1887**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 3 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Japan, Korea (Beenen, 2010).

***Galerucella medvedevi* Beenen, 2008**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Tuva, Irkutskaya oblast, Khabarovskii krai, Primorskii krai, Kuril Islands). (Beenen, 2010).

***Gallerucida bifasciata* Motschulsky, 1861**

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Korea, Japan (Beenen, 2010).

***Gallerucida gloriosa* (Baly, 1861)**

MATERIAL. **Russia:** Furugelm Island, on *Ampelopsis brevipedunculata* (Maxim.) Trautv., 15.VII 2012, 2 ex. (leg. Shabalin) (FSCB).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Korea (Beenen, 2010).

***Taphinellina flaviventris* (Motschulsky, 1861)**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai, Sakhalin, South Kuril Islands). – China, Korea, Japan (Beenen, 2010).

***Monolepta quadriguttata* (Motschulsky, 1860)**

MATERIAL. **Russia:** Furugelm Island, 20.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Khabarovskii krai, Primorskii krai). – Mongolia, China, Korea, Japan (Beenen, 2010).

***Pyrrhalta annulicornis* (Baly, 1874)**

MATERIAL. **Russia:** Furugelm Island, on *Viburnum sargentii* Koehne, 17–22.VIII 2018, 20 ex. (MS); Popov Island, 27.VIII 2018, 5 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Khabarovskii krai, Primorskii krai, Sakhalin, South Kuril Islands). – China, Korea, Japan (Beenen, 2010).

**Subfamily Cassidinae**

***Cassida amurensis* (Kraatz, 1879)**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Korea (Borowiec & Sekerka, 2010).

***Cassida fusciorufa* Motschulsky, 1866**

MATERIAL. **Russia:** Furugelm Island, 16–20.VII 2012, 2 ex. (leg. Shabalin) (FSCB); Popov Island, 26.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Khabarovskii krai, Primorskii krai, Sakhalin, South Kuril Islands). – Mongolia, China, Korea, Japan (Borowiec & Sekerka, 2010).

***Cassida denticollis* Suffrian, 1844**

MATERIAL. **Russia:** Furugelm Island, 8.VII 1975, 1 ex. (leg. Veligzhanin) (ISEA).

DISTRIBUTION. Russia (European part, Siberia, Caucasus). – Europe, Kazakhstan, Mongolia, China (Xinjiang) (Borowiec & Sekerka, 2010).

***Cassida nebulosa* Linnaeus, 1758**

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 5 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai, Sakhalin, South Kuril Islands). – Europe, Kazakhstan, Mongolia, China, Korea (Borowiec & Sekerka, 2010).

***Cassida pallidicornis* Boheman, 1856**

MATERIAL. **Russia:** Furugelm Island, 20.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (South Siberia, Amurskaya oblast, Primorskii krai). – Mongolia, Korea, China (Borowiec & Sekerka, 2010).

***Cassida piperata* Hope, 1842**

MATERIAL. **Russia:** Furugelm Island, 18.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Korea, Japan, Taiwan, Philippines (Borowiec & Sekerka, 2010).

***Cassida mongolica* Boheman, 1854**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Baikal, Zabaikalskii krai, Amurskaya oblast, Khabarovskii krai). – Mongolia, China, Japan (Borowiec & Sekerka, 2010).

***Dactylispa angulosa* (Solsky, 1872)**

MATERIAL. **Russia:** Furugelm Island, 8.VII 1975, 1 ex. (leg. Veligzhanin) (ISEA).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Korea, Japan (Borowiec & Sekerka, 2010).

**Subfamily Alticinae**

***Altica bisulcata* (Weise, 1887)**

MATERIAL. **Russia:** Furugelm Island, 17.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – Mongolia, North-East China (Döberl, 2010).

***Aphthona modesta* Weise, 1887**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai). – China, Korea (Döberl, 2010).

***Argopistes biplagiatus* Motschulsky, 1860**

MATERIAL. **Russia:** Stenin Island, 42°43' N, 131°30' E, 2.VI 1999, 7 ex. (leg. Klimov) (FSCB); Furugelm Island 19.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai, Sakhalin). – China, Korea, Japan (Döberl, 2010).

***Batophila acutangula* Heikertinger, 1921**

MATERIAL. **Russia:** Popov Island 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai, Sakhalin, South Kuril Islands). – China, Korea, Japan (Döberl, 2010).

***Chaetocnema concinna* (Marsham, 1802)**

MATERIAL. **Russia:** Popov Island 27.VIII 2018, 11 ex. (MS).

DISTRIBUTION. Russia (Magadanskaya oblast, Amurskaya oblast, Khabarovskii krai, Primorskii krai). – Palearctic and Nearctic regions (Döberl, 2010).

***Hemipyxis plagioderoides* (Motschulsky, 1861)**

MATERIAL. **Russia:** Furugelm Island 8.VII 1975, 1 ex. (leg. Veligzhanin) (ISEA).

DISTRIBUTION. Russia (Amurskaya oblast, Khabarovskii krai, Primorskii krai). – Japan (Döberl, 2010).

***Longitarsus succineus* (Foudras, 1860)**

MATERIAL. **Russia:** Popov Island 26.VIII 2018, 3 ex. (MS).

DISTRIBUTION. Russia (European part, North Caucasus, Siberia, Amurskaya oblast, Primorskii krai). – Palearctic and Nearctic regions (Döberl, 2010).

***Longitarsus suturellus* (Duftschmidt, 1825)**

MATERIAL. **Russia:** Popov Island 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (European part, North Caucasus, Siberia, Amurskaya oblast, Primorskii krai). – Europe, Caucasus, Mongolia, Korea, Japan (Döberl, 2010).

***Longitarsus nitidus* Jacoby, 1885**

MATERIAL. **Russia:** Popov Island 26.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (Primorskii krai). – Northeast China, Korea, Japan (Döberl, 2010).

***Longitarsus tabidus tabidus* (Fabricius, 1775)**

MATERIAL. **Russia:** Furugelm Island, 17–22.VIII 2018, 8 ex. (MS).

DISTRIBUTION. Russia (European part, Siberia). – Europe, North Africa, Israel, Turkey, Caucasus, Kazakhstan, Central Asia, Iran (Döberl, 2010).

***Lythraria salicariae* (Paykull, 1800)**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (European part, North Caucasus, Siberia). – Europe, Iran, Iraq, Kazakhstan, Mongolia, Korea (Döberl, 2010).

***Neocrepidodera sibirica* (Pic, 1909)**

MATERIAL. **Russia:** Popov Island 27.VIII 2018, 2 ex. (MS).

DISTRIBUTION. Russia (Amurskaya oblast, Primorskii krai, Sakhalin). – Korea, Japan (Döberl, 2010).

***Phyllotreta kurbatovi* L. Medvedev, 2010**

MATERIAL. **Russia:** Furugelm Island, on *Cardamine leucantha* (Tausch) O.E. Schulz., 17–22.VIII 2018, 17 ex. (MS).

DISTRIBUTION. Russia (Primorskii krai). – Korea, Japan (Döberl, 2010; Sergeev, 2016).

***Phyllotreta undulata* Kutschera, 1860**

MATERIAL. **Russia:** Furugelm Island, 20.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (European part, North Caucasus, Siberia, Amurskaya oblast, Primorskii krai). – Europe, North Africa, Kazakhstan, Central Asia, Mongolia, Nearctic region, Australia (Döberl, 2010).

***Psylliodes cucullata cucullata* (Illiger, 1807)**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 1 ex. (MS).

DISTRIBUTION. Russia (European part, North Caucasus, Siberia, Amurskaya oblast, Primorskii krai). – Kazakhstan, Central Asia, Mongolia, Korea, China, Nearctic region (Döberl, 2010).

***Sphaeroderma unicolor* Kimoto, 1965**

MATERIAL. **Russia:** Popov Island, 27.VIII 2018, 3 ex. (MS).

DISTRIBUTION. Russia (Primorskii krai). – Japan (Döberl, 2010).

### CONCLUSION

Totally, 55 species in 35 genera and seven subfamilies of the family Chrysidae are recorded from the Far Eastern Marine Biosphere Reserve for the first time. The genus *Lythraia* Bedel, 1897 and three species, *L. salicariae* (Paykull, 1800), *Longitarsus tabidus tabidus* (Fabricius, 1775) and *Cassida denticollis* Suffrian, 1844, are recorded from Russian Far East for the first time. The genus *Pallasiola* Jakobson, 1925 and two species, *Pallasiola absinthii* (Pallas, 1771) and *Cassida mongolica* Boheman, 1854 are newly recorded from Primorskii krai.

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