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## NEW AND LITTLE KNOWN HISTERIDAE SPECIES (COLEOPTERA) FROM RUSSIA WITH A SYNONYMY NOTE

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**Summary.** *Margarinotus maruyamai* Ôhara, 1999, *Eulomalus longipunctatus* Seung et Lee, 2019 and *Platysoma jongwooki* Ôhara et Ahn, 2018 are recorded from Russia for the first time. New localities are reported for *Niponius osorioceps* Lewis, 1885, *Bacanius kurbatovi* Gomy et Tishechkin, 1993, *B. lableri* (Reichardt, 1941), and *Onthophilus extraordinarius* Reichardt 1941. New synonymy is established: *Onthophilus extraordinarius* Reichardt 1941 = *Onthophilus jackli* Kapler, 1993, *syn. n.*

**Key words:** hister beetles, synonymy, fauna, new record, Russian Far East.

**А. К. Тищекин, В. К. Зинченко, М. Е. Сергеев. Новые и малоизвестные виды жуков-карапузиков (Coleoptera, Histeridae) из России с замечаниями по синонимии // Дальневосточный энтомолог. 2022. N 467. С. 11-16.**

**Резюме.** Впервые для фауны России приводятся виды жуков-карапузиков *Margarinotus maruyamai* Ôhara, 1999, *Eulomalus longipunctatus* Seung et Lee, 2019 и *Platysoma jongwooki* Ôhara et Ahn, 2018. Приводятся места новых находок для *Niponius osorioceps* Lewis, 1885, *Bacanius kurbatovi* Gomy et Tishechkin, 1993, *B. lableri* (Reichardt, 1941) и *Onthophilus extraordinarius* Reichardt, 1941. Установлена новая синонимия: *Onthophilus extraordinarius* Reichardt, 1941 = *Onthophilus jackli* Kapler, 1993, *syn. n.*

## INTRODUCTION

Histeridae includes about 4300 species in approximately 400 genera and nine subfamilies (Mazur, 1997, 2011). Histerid fauna of the Russian Far East is relatively well studied. For Primorsky Krai, 69 species belonging to 25 genera are reported (Kryzhanovskij & Reichardt, 1976; Kryzhanovskij, 1989; Tishechkin, 1991; Gomy & Tishechkin, 1993; Kapler, 1993; Ôhara, 1994). Below, we report new distributional data on rare and poorly known Far Eastern Histeridae collected in the 2000–2022s. Also, we synonymize one species; both involved species are known so far only from Russian Far East.

## MATERIAL AND METHODS

The material was studied and photographed with a Zeiss Stemi 2000-C and Altami PS0745-T binocular microscope. Specimens deposited in the collections of the All-Russian Plant Quarantine Center, Bykovo, Moscow Distr., Russia (VNIIKR), California State Collection of Arthropods, Sacramento, USA (CSCA), Siberian Zoological Museum, Institute of Systematics and Ecology of Animals, SB RAS, Novosibirsk, Russia (ISEA), Federal Scientific Center of the East Asia Terrestrial Biodiversity, Vladivostok, Russia (FSCV) and Zoological Institute of the Russian Academy of Sciences, St. Petersburg, Russia (ZIN).

## RESULTS

### Family Histeridae Gyllenhal, 1808

#### Genus *Niponius* Lewis, 1885

NOTES. The genus includes 24 described species from the Indo-Malay region and the East Asian subregion of the Holarctics. Beetles are typical for forest areas, but are rare in collections. They live in the galleries of bark and ambrosia beetles, where they prey on soft-bodied invertebrates, primarily bark beetle larvae. Out of three species recorded in Russia, two species are known exclusively from the south of the Far East (Kryzhanovskij & Reichardt, 1976).

#### *Niponius osorioceps* Lewis, 1885

*Niponius osorioceps*: Okeanskaia near Vladivostok (Kryzhanovskij & Reichardt, 1976: 78); Lazovski Nature Reserve, Cordon Proselochnaya (43°00'805"N 134°06'424"E) (Zaitsev & Zaitsev, 2019: 149).

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Ussuri Dist., near Kamenushka, 4.VIII 1979, 1 ex., leg. A.V. Mikheev & N.B. Nikitsky (CSCA); same locality, 13.VI 1990, *Tilia* sp. stump, 1 ex., leg. S.A. Kurbatov (CSCA); same locality, 18.VII 1991, 1 ex., leg. S.A. Kurbatov (CSCA); Lazovski Nature Reserve, Cordon Zviozdochka, 10 km to NE from Kievka, 14–21.V 2009, 3 ex., leg. S.A. Kurbatov; Vladivostok, Botanic Garden, flight intercept trap, 11.V 2022, 1 ex.; same locality, 22.V 2022, 1 ex.; same locality, 17.VI 2022, 1 ex., leg. M.E. Sergeev (FSCV).

DISTRIBUTION. Russia: Primorsky Krai (Kryzhanovskij & Reichardt, 1976; Ôhara, 1999; Sokolov, 2009; Lee *et al.*, 2012). Japan: Hokkaido, Honshu, Kyushu, Shikoku; Korea.

NOTES. A rare, dendrophilous species associated with the galleries of *Hylesinus tristis* Blandford, 1894 (Coleoptera: Curculionidae: Scolytinae), where it preys on their larvae and pupae (Zaitsev & Zaitsev, 2019).

#### Genus *Margarinotus* Latreille, 1809

#### Subgenus *Myrmecohister* Ôhara, 1999

NOTES. There are forty species belonging to six subgenera of *Margarinotus* Marseul, 1853 reported for the Palaearctics (Kryzhanovskij & Reichardt, 1976; Mazur, 1997, 2011), 12 of them are known from Primorsky Krai (Kryzhanovskij, 1989). The monotypic subgenus *Myrmecohister* Ôhara, 1999 was originally described from Japan (Ôhara, 1999). One specimen of *M. mariyamai* was collected by MES with flight intercept trap in the Vladivostok Botanical Garden.

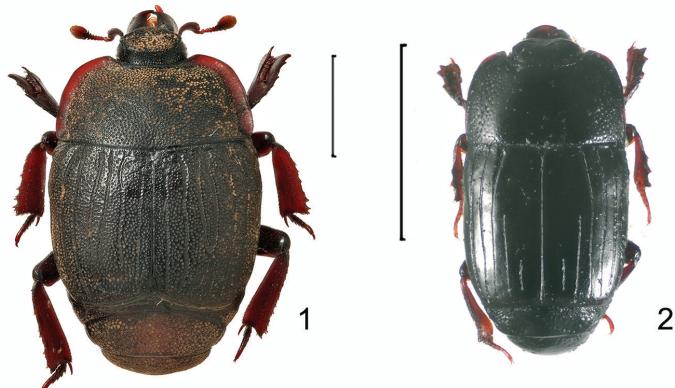
***Margarinotus (Myrmecohister) maruyamai* Ôhara, 1999**

Fig 1

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Vladivostok, Botanic Garden, flight intercept trap, 24.VI 2021, 1 ♂, leg. M.E. Sergeev (ISEA).

DISTRIBUTION. Russia (new record): Primorsky Krai. Japan: Hokkaido, Honshu (Ôhara, 1999).

NOTES. In Japan, this species was found in the colonies of *Lasius (Dendrolasius) fuliginosus* (Latreille, 1798) ants. In Vladivostok, the specimen was collected in a fir forest on the slope of northern exposition, by a flight intercept trap hanging on a tree ~ 1.5 m above the ground, near the nest of *Lasius fuliginosus*.



Figs 1–2. Histeridae spp., habitus, dorsal view. 1 – *Margarinotus maruyamai*; 2 – *Platysoma jongwooki*: Scale bars 2 mm.

**Genus *Eulomalus* Cooman, 1937**

NOTES. The genus *Eulomalus* Cooman, 1937 includes 28 species distributed primarily in the South-East Asia, Australia and Oceania, nine of which are reported fr Palaeartic region (Mazur, 2011; Lackner *et al.*, 2015; Seung & Lee, 2019). *Eulomalus longipunctatus* Seung et Lee, 2019 was recently described from South Korea.

***Eulomalus longipunctatus* Seung et Lee, 2019**

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Ussuri Dist., near Kamenushka, 25 km to SE from Ussurijsk, 20.VI 1991, 1 ex., leg. S.A. Kurbatov (CSCA); near Kravtsovka, 43.3645°N 131.6389°E, ~115 m, in rotten *Tilia sp.*, 7.VI 2019, 3 ex., S.A. Kurbatov (CSCA & VNIIKR).

DISTRIBUTION. Russia (new record): Primorsky Krai. South Korea (Seung & Lee, 2019).

**Genus *Platysoma* Leach, 1817**

**Subgenus *Platysoma* Leach, 1817**

NOTES. There are 25 *Platysoma* species known from the Palaeartic out of about 65 species described in the genus globally (Mazur, 2011; Lackner *et al.*, 2015; Ôhara & Ahn, 2018). Five species are reported from Primorsky Krai, but only two of them belong to the nominative subgenus (Kryzhanovskij, 1989). The third species from this subgenus found

recently in the southern Primorsky Krai appeared to be the species recently described from South Korea. These beetles are found under bark of conifers, in bark beetle galleries.

***Platysoma jongwooki* M. Ôhara et Ahn, 2018**

Fig 2

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Vladivostok, Botanic Garden, 43.2112°N, 131.9954°E, 27.VII 2021, 1 ex., leg. M.E. Sergeev (ISEA); Kravtsovka, 43.3645°N 131.6389°E, ~115 m, flight intercept trap, 8.VI 2019, 2 ex. leg. S.A. Kurbatov (CSCA); ~8 km NW Zanadvorovka, 43.384° N 131.528° E, ~420 m, window trap, 6–8.VI 2021, 2 ex., leg. I. Melnik (CSCA & VNIIKR); Gulf of Peter the Great, Popov Island, oak forest, 42.9558°N, 131.7421°E, 30.V 2021, 1 ex., M.E. Sergeev; Sikhote-Alin Nature Reserve, 20 km to NW from Plastun, Kuruma River floodplain, 44.9152°N, 136.2118°E, 1.VII 2021, 1 ex., M.E. Sergeev (ISEA).

NOTES. The Vladivostok specimen was collected under bark of *Pinus koraiensis* Siebold & Zucc. (windfall from previous winter), in bark beetle galleries, the Sikhote Alin Range specimen – in pine-hardwood forest under bark of *Larix sp.*, in the *Ips subelongatus* (Motschulsky, 1860) galleries, on Popov Island the specimen was collected in pitfall trap set up in an oak forest.

DISTRIBUTION. Russia: Far East (new record). South Korea (Ôhara & Ahn, 2018).

**Genus *Bacanius* leConte, 1853**

NOTES. There are seven *Bacanius* species in the Palearctic, only two following species are known in Primorsky Krai (Lackner *et al.*, 2015). Both of these species are rarely collected and known from a few localities and specimens, so we are reporting new recent records of the rather long series of them below.

***Bacanius kurbatovi* Gomy et Tishechkin, 1993**

*Bacanius kurbatovi*: Gomy & Tishechkin, 1993: 16 (Ussuri Dist., Kamenushka); Gomy & Tishechkin, 1993: 16 (Merkushevka, S of Spassk-Dalny).

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Kravtsovka, 43.3645°N 131.6389°E, ~115 m, in rotten wood of *Betula sp.* and *Tilia sp.*, 6–7.VI 2019, 19 ex., S.A. Kurbatov (CSCA & VNIIKR).

DISTRIBUTION. Russia: Primorsky Krai (Gomy & Tishechkin, 1993).

***Bacanius lableri* (Reichardt, 1941)**

*Bacanius lableri*: Kryzhanovskij & Reichardt, 1976: 270 (Vladivostok); Kryzhanovskij & Tishechkin, 1994: 95 (Ussuri Dist., Kamenushka); Kryzhanovskij & Tishechkin, 1994: 95 (Merkushevka, S of Spassk-Dalny).

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Kravtsovka, 43.3645°N 131.6389°E, ~115 m, in rotten wood of *Alnus sp.*, *Betula sp.*, *Tilia sp.* and *Ulmus sp.*, 4–7.VI 2019, 26 ex., S.A. Kurbatov (CSCA & VNIIKR).

DISTRIBUTION. Russia: Primorsky Krai (Kryzhanovskij & Reichardt, 1976).

**Genus *Onthophilus* Leach, 1817**

NOTES. There are 20 *Onthophilus* species in the Palearctic with six species recorded in Primorsky Krai (Lackner *et al.*, 2015). All local species are uncommon in collections, some of them are known from a very few specimens. Specimens of *Onthophilus* occur in dung, on carrion, on deciduous tree sap flows; they come to pitfall and carrion traps.

### *Onthophilus extraordinarius* Reichardt, 1941

*Onthophilus extraordinarius* Reichardt 1941: 344, 410 (holotype, "Sibirea orientalis: prov. Ussuriensis, Vladivostok, 2.VI 1919", H. Fried leg. [Russia, Primorsky Krai, environs of Vladivostok] [ZIN]); Kryzhanovskij & Reichardt, 1976: 288 (Vladivostok); Zinchenko *et al.*, 2009: 25 (Khabarovskiy Krai, Bychikha).

*Onthophilus jakli* Kapler, 1993: 25, ♂, (holotype, ♂, Russia or., Ussuri reg., Jasnoe 500 m, 12.VII 1989, Jákli leg.) [in the author collection]; **syn. n.**

MATERIAL EXAMINED. **Russia:** Primorsky Krai: Vladivostok, 2.VI 1919, 1 ex., leg. H. Fried (ZIN); Suvorovka River, Lamazin Creek valley, 1.VII 1983, 1 ex., leg. G.Sh. Lafer (ZIN); Lazovski Nature Reserve, Cordon Zviozdochka, 14–21.V 2009, 2 ♂, leg. S.A. Kurbatov; 20 km W of Nezhino, upper Malaia Ananievka River, 6.VIII 1988, 1 ♂, leg. S.A. Kurbatov (CSCA); 16 km N Sergeevka village, vicinity of Molchanovka, on carrion, 28.VI 1972, 2 ex., leg. E.L. Gur'eva (ZIN); Barabash-Levada, 44.7539°N, 131.4277°E, on dry [animal] bones, 24.V 1969, 5 ex., A.G. Kireychuk (ZIN); Sikhote-Alin Nature Reserve, middle course of Serebryanka River, Serebryanyy Spring, 15.VI 2018, 3 ♂, 8 ♀, leg. M.E. Sergeev; Kedrovaya Pad Nature Reserve, near Primorsky, 1.V 2015, 1 ♀, M.E. Sergeev; Ussuri Nature Reserve, along the road between Cordons 1 and 2, 25.IV 1983, 1 ex., leg. Z.V. Demidenko (ISEA).

NOTES. AKT was able to put side by side the Reichardt's holotype of *O. extraordinarius* with (labeled "Vladivostok, Ost-Asien, Herm. Frieb. 2.VI 1914(1919)" from the collection of ZIN as well as all-above mentioned more recent ZIN specimens of the species with a male and female from the type series of *O. jakli* Kapler. There is no doubt that these two taxa are conspecific. Apparently, Kapler never saw authentic material of *O. extraordinarius* and got confused dealing only with the keys of Reichardt and Kryzhanovskij. It should be noted that *O. extraordinarius* males possess a deep setose depression occupying most of the metaventral disc, making their identification pretty straightforward.

DISTRIBUTION. Russia: Primorsky Krai (Kryzhanovskij, 1989) and south of Khabarovskiy Krai (Zinchenko *et al.*, 2009).

### CONCLUSION

With the above data, the total number of species known from the Russian Far East grows up to 70 species. However, keeping in mind rarity of many Far Eastern species in collections and the presence of several species in the neighboring China and Japan still not found in Russia, it is safe to consider this number to be far from complete. It seems reasonable to expect more species to be found in Primorsky Krai in the future, even species new to science. This peculiar fauna definitely deserves more attention and exploration, especially with the use of productive passive techniques such as flight intercept traps, a well-known tool for collecting of rare small beetles, including members of Histeridae.

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