

**NEW RECORDS OF INSECTS (HETEROPTERA, COLEOPTERA,
NEUROPTERA, HYMENOPTERA, DIPTERA) FROM KUNASHIR
ISLAND**

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Summary. Two species, *Pseudoleptaleus trigibber* (Marseul, 1879) (Coleoptera: Anthicidae) and *Suillia rubida* (Coquillett, 1898) (Diptera: Heleomyzidae), are recorded from Russia for the first time. Twelve species are reported as new for the fauna of Kuril Islands: *Urostylis striicornis* Scott, 1896 (Heteroptera: Urostylidae), *Micromus angulatus* (Stephens, 1836) (Neuroptera: Hemerobiidae), *Vespa crabro* Linnaeus, 1758, *V. mandarinia* Smith, 1852 (Hymenoptera: Vespidae), *Toxoneura venusta* (Loew, 1858) (Diptera: Pallopteridae), *Suillia bicolor* (Zetterstedt, 1838), *S. brunneipennis* Okadome, 1968, *S. gorodkovi* Okadome, 1968, *S. miki* (Pokorny, 1886), *S. nartshukella* Gorodkov, 1965, *S. taigensis* Gorodkov, 1979 (Diptera: Heleomyzidae), *Calliphora subalpina* (Ringdahl, 1931) (Diptera: Calliphoridae).

Key words: bugs, ant-like beetles, brown lacewings, wasps, flies, fauna, new records, Kuril Islands, Russian Far East.

В. В. Дубатов, В. К. Зинченко. Новые находки насекомых (Heteroptera, Coleoptera, Neuroptera, Hymenoptera, Diptera) с острова Кунашир // Дальневосточный энтомолог. 2024. N 494. С. 14-20.

Резюме. С острова Кунашир впервые для фауны России приводятся *Pseudoleptaleus trigibber* (Marseul, 1879) (Coleoptera: Anthicidae) и *Suillia rubida* (Coquillett, 1898) (Diptera: Heleomyzidae). Для Курильских островов впервые указываются 12 видов: *Urostylis striicornis* Scott, 1896 (Heteroptera: Urostylidae), *Micromus angulatus* (Stephens, 1836) (Neuroptera: Hemerobiidae), *Vespa crabro* Linnaeus, 1758, *V. mandarinia* Smith, 1852 (Hymenoptera: Vespidae), *Toxoneura venusta* (Loew, 1858) (Diptera: Pallopteridae), *Suillia bicolor* (Zetterstedt, 1838), *S. brunneipennis* Okadome, 1968, *S. gorodkovi* Okadome, 1968, *S. miki* (Pokorny, 1886), *S. nartshukella* Gorodkov, 1965, *S. taigensis* Gorodkov, 1979 (Diptera: Heleomyzidae), *Calliphora subalpina* (Ringdahl, 1931) (Diptera: Calliphoridae).

INTRODUCTION

While a lot of new for Kuril Islands insects have been recorded recently (Makarov & Sundukov, 2021; Grichanov & Selivanova, 2022; Rybalkin *et al.*, 2022; Rybalkin & Beljaev, 2023), the fauna of Kunashir Island is not studied completely. During expedition for autumn-flying moths to Kunashir in September-October, 2022, authors collected several insects of other orders that are new for this island, as well as for all Kuriles (Dubatolov *et al.*, 2023). Several places were studied in Kunashir:

1) Danilovskii kordon (43°57'14" N, 145°35'35" E), western side of Kunashir, a meadow; the neighbouring slope covered by an oak forest, mixed forest is located about one km away; catching by light at the kordon house was not rich and light trapping in forests is very poor; however, bait trapping on nearby *Morus* bush was successful;

2) Andreevskii kordon (43°53'16" N, 145°37'29" E), eastern side of Kunashir, a meadow near mainly alder forest on neighbouring slope and mixed forest apart on the plateau; light trapping was not rich but bait trapping was also successful; some species were caught in forest with a net at night time.

NEW RECORDS

ORDER HETEROPTERA

Family Urostylidae

Urostylis striicornis Scott, 1896

Fig. 1

MATERIAL. **Russia:** Kunashir Island, about 1 km SW of Danilovskii kordon, oak forest, by light trap, 18-19.IX 2022, 1 ♂.

DISTRIBUTION. **Russia:** Primorskii krai; China (central, northern and south-western provinces), Korea, Japan (Kanyukova, 1988; Rider, 2006). The species was newer recorded from Kuril Isl. either by Kanyukova (1988) or Vinokurov & Kanyukova (2016).

NOTES. The bug lives on oak trees (Kanyukova, 1988) and was caught in oak forest. Shape of the male terminal abdominal process is characteristic: it has elongate triangular shape with a cut on apical edge (Fig. 1).

ORDER COLEOPTERA

Family Anthicidae

Pseudoleptaleus trigibber (Marseul, 1879)

Fig. 3

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 30.IX 2022, 1 ♀.

DISTRIBUTION. The new species for Russia. Formerly known from Korea and Japan (Honshu, Shikoku, Kyushu, Tsushima) (Lafer, 1996).

NOTES. Dry beetle was found on a window pane in a house.

ORDER NEUROPTERA

Family Hemerobiidae

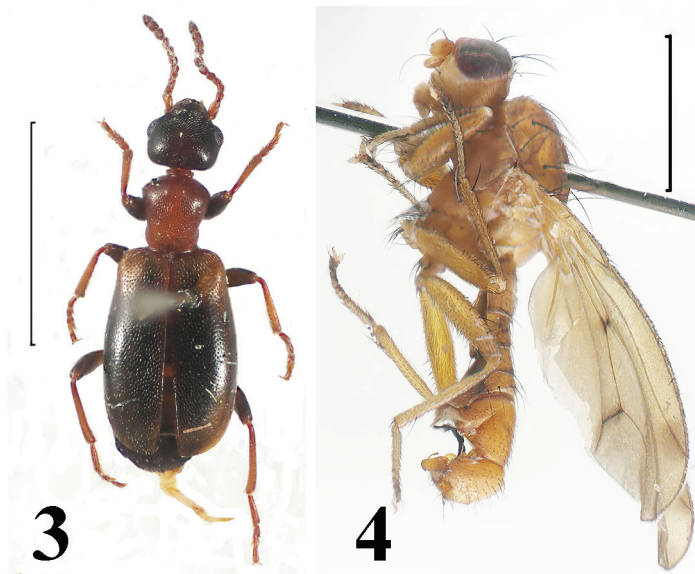
Micromus angulatus (Stephens, 1836)

MATERIAL. **Russia:** Kunashir Island, about 1 km SW of Danilovskii kordon, oak forest, by light trap, 10-11.X 2022, 1 ♂, 1 ♀.

DISTRIBUTION. A transholarctic species. In the Pacific islands it was known from Sakhalin (Makarkin, 1995).



Figs 1, 2. Male genitalia, general view. 1 – *Urostylis stricornis* Scott, 1896 (Heteroptera, Urostylidae); 2 – *Suillia rubida* (Coquillett, 1898) (Diptera, Heleomyzidae). Scale bars: 1 = 1 mm; 2 = 0.5 mm.



Figs 3, 4. Insects, general view. 3 – *Pseudoleptaleus trigibber* (Marseul, 1879), ♀ (Coleoptera, Anthicidae), dorsal view; 4 – *Suillia rubida* (Coquillett, 1898), ♂ (Diptera, Heleomyzidae), lateral view. Scale bars: 2 mm.

ORDER HYMENOPTERA

Family Vespidae

Vespa crabro Linnaeus, 1758

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 1-22.X 2022, 6 ♂, 11 workers.

DISTRIBUTION. Originally transpalearctic species, but introduced into North America: Canada, USA (Carpenter, Kojima, 1997) and recently extended to Guatemala (European hornet, 2023). In the Pacific Islands it was known formerly from Sakhalin and Japan.

NOTES. The species was collected mainly by bait traps together with similar and more rare *Vespa simillima* Smith, 1868.



Fig. 5. *Vespa mandarinia* Smith, 1852, ♀ (Hymenoptera, Vespidae), Kunashir Is., Veslo Peninsula, photo by S.Yu. Stefanov.

Vespa mandarinia Smith, 1852, ssp. *japonica* Radoszkowski, 1857

Fig. 5

MATERIAL. **Russia:** Kunashir Island, Veslo Peninsula, on photo, 13.X 2023, 6 ♀ (S.Yu. Stefanov).

DISTRIBUTION. Russia: Amur Province: Nature Reserve Khinganskii (E.V.Ignatenko, pers. comm.); Jewish Province: Bastak Nature Reserve (Dubatolov, 2011); Khabarovskii Krai: Khabarovsk vic. (Dubatolov & Novomodnyi, 2006; Dubatolov & Dolgikh, 2009), Mukhen, Anyui National Park (new records: Bikhan, Bogbasu); Primorskii Krai; Kuril Islands (*V. m. japonica* Radoszkowski, 1857); Kunashir (new record); Korea, China, Japan (*V. m. japonica* Rad.), Indochina, Nepal, Bhutan, India, Sri Lanka (Kurzenko, 1995; Carpenter & Kojima, 1997).

ORDER DIPTERA

Family Pallopteridae

Toxoneura venusta (Loew, 1858)

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, bait traps, 19-20.X 2022, 1 ♀.

DISTRIBUTION. Transpalaerctic species (Ozerov, 2009), but never recorded from the Pacific Islands, including Japan.

Family Heleomyzidae

Suillia bicolor (Zetterstedt, 1838)

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 5-6, 15-24.X 2022, 23 ♂, 23 ♀; Danilovskii kordon, 10-11, 13.X 2022, 2 ♀.

DISTRIBUTION. Transpalaerctic species, distributed east to Korea and Japan (Honshu), (Gorodkov, 1984; Mun, Sang, 2019). Never recorded from Kuril Islands before.

Suillia brunneipennis Okadome, 1968

MATERIAL. **Russia:** Kunashir Island: Ivanovsky Cape, 13.VII.1989, A. Barkalov, 1 ♂; Andreevskii kordon, 18-20.X 23-24.X 2022, 4 ♂.

DISTRIBUTION. **Russia:** Primorskii krai, Sakhalin; South Korea and Japan (Hokkaido, Honshu, Shikoku, Kyushu) (Gorodkov, 1984; Mun, Sang, 2019).

Suillia gorodkovi Okadome, 1968

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 17-24.X 2022, 19 ♂, 12 ♀.

DISTRIBUTION. A Central Siberian and South Far Eastern species. In the Pacific Islands it was known formerly from Japan only (Gorodkov, 1984; Okadome, 1968).

Suillia mikii (Pokorny, 1886)

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 22-25.X 2022, 5 ♂, 1 ♀.

DISTRIBUTION. Transpalaerctic species. In the Pacific Islands it was known formerly from Russian Sakhalin, Paramushir (Northern Kuriles) and Japan (Gorodkov, 1963, 1980).

Suillia nartshukella, Gorodkov, 1965

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 15, 17-24.X 2022, 15 ♂, 4 ♀.

DISTRIBUTION. **Russia:** Primorskii krai, Sakhalin; South Korea, Japan (Honshu, Shikoku, Kyushu) (Gorodkov, 1965; Mun, Sang, 2019).

Suillia rubida (Coquillett, 1898)

Figs 2, 4

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 2.X 2022, 1 ♂.

DISTRIBUTION. The new species for **Russia**. Formerly known from Korea and Japan (Honshu, Shikoku, Kyushu, Tsushima) (Gorodkov, 1984; Mun, Sang, 2019).

NOTES. The species is characterized by a bifurcated, Y-shaped right aedit (Fig. 2).

Suillia taigensis Gorodkov, 1979

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 23-24.X 2022, 1 ♂, 2 ♀.

DISTRIBUTION. Central Siberian and the continental South Far Eastern species (Gorodkov, 1979).

Family Calliphoridae

Calliphora (Acrophaga) subalpina (Ringdahl, 1931)

MATERIAL. **Russia:** Kunashir Island, Andreevskii kordon, 17-19, 22-23.X 2022, 5 ♂, 11 ♀.

DISTRIBUTION. A transpalearctic species. In the Pacific Islands it was known from Japan (Verves, Khrokalo, 2006) only.

ACKNOWLEDGEMENTS

The authors thanks Mr. Aleksandr A. Kisleiko (Director of the Nature Reserve “Kurilsky”), Mrs. Elena V. Linnik (Scientific Vice Director of the Nature Reserve “Kurilsky”) for a possibility to study insects in the Nature Reserve, Mr. Sergei Yu. Stefanov (Nature Reserve “Kurilsky”) for the photo of *Vespa mandarina* from Kunashir Island, as well as Mr. Mikhail Ragimov for the much help during studies. The work was partly supported by the Project 1021051703269-9-1.6.12 “Development and Dynamics of Biological Systems in Eurasia”; some financing was received via Dr. V. Martem’yanov (Novosibirsk). Material is preserved the Institute of Systematics and Ecology of Animals, Siberian Branch of the RAS, in the collection of «Siberian Zoological Museum, Novosibirsk», supported by the Program of Bioresource Collections of FANO of Russia (No AAAA-A17-117101070002-6). The authors are grateful to Dr. O.E. Kosterin (Novosibirsk, Russia) for language correcting.

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