

To the fauna of terrestrial bugs (Heteroptera: Cimicomorpha, Pentatomomorpha) of Altai Krai (Russia) I

К фауне наземных клопов (Heteroptera: Cimicomorpha, Pentatomomorpha) Алтайского края (Россия) I

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КЛЮЧЕВЫЕ СЛОВА: Насекомые, биоразнообразие, Heteroptera, Алтайский край, Сибирь, Россия, фауна, новые данные.

ABSTRACT. Basing on the materials of the Altai State University expedition in 2020, we provide new data on the distribution of 84 heteropteran species of 15 families in the Altai Krai. Of them, *Coptosoma mucronatum* Seidenstücker, 1963 (Plataspidae) is reported as new to the Siberian fauna. 17 species are recorded as new to the Altai Krai: *Nabis brevis brevis* Scholtz, 1847, *N. ferus* (Linnaeus, 1758), *N. incryptus* (Kirby, 1837) (Nabidae); *Lygus gemellatus gemellatus* (Herrich-Shaeffer, 1835), *L. rugulipennis* Poppius, 1911, *L. sibiricus* Aglyamzyanov, 1990, *Orthops mutans* (Stål, 1858), *Phytocoris pini* Kirschbaum, 1856, *Pinalitus rubricatus* (Fallén, 1807), *Stenodema holsata* (Fabricius, 1787), *S. sibirica* Bergroth, 1914, *Anapus rugicollis* (Jakovlev, 1877), *Chlamydatus pulicarius* (Fallén, 1807), *Dacota hesperia* Uhler, 1872, *Psallus anticus* (Reuter, 1876) (Miridae); *Drymus brunneus brunneus* (R.F. Sahlberg, 1848) (Lygaeidae); *Elasmucha grisea* (Linnaeus, 1758) (Acanthosomatidae).

РЕЗЮМЕ. На основе материалов экспедиции Алтайского государственного университета 2020 года приводятся новые данные о распространении 84 видов полужесткокрылых из 15 семейств на территории Алтайского края. Из них *Coptosoma mucronatum* Seidenstücker, 1963 (Plataspidae) является новым для фауны Сибири. 17 видов относятся к новым для Алтайского края: *Nabis brevis brevis* Scholtz, 1847, *N. ferus* (Linnaeus, 1758), *N. incryptus* (Kirby, 1837) (Nabidae); *Lygus gemellatus gemellatus* (Herrich-Shaeffer, 1835), *L. rugulipennis* Poppius, 1911, *L. sibiricus* Aglyamzyanov, 1990, *Orthops mutans* (Stål, 1858), *Phytocoris pini*

Kirschbaum, 1856, *Pinalitus rubricatus* (Fallén, 1807), *Stenodema holsata* (Fabricius, 1787), *S. sibirica* Bergroth, 1914, *Anapus rugicollis* (Jakovlev, 1877), *Chlamydatus pulicarius* (Fallén, 1807), *Dacota hesperia* Uhler, 1872, *Psallus anticus* (Reuter, 1876) (Miridae); *Drymus brunneus brunneus* (R.F. Sahlberg, 1848) (Lygaeidae); *Elasmucha grisea* (Linnaeus, 1758) (Acanthosomatidae).

Introduction

The Altai Krai is located in the southern part of Western Siberia within 49–54°N and 78–87°E. It borders in the west and south with Pavlodar and East Kazakhstan Regions of the Republic of Kazakhstan, in the north and north-east with Novosibirsk and Kemerovo Regions, in the southeast with the Republic of Altai. The territory belongs to two geographical regions — the West Siberian Plain and the Altai-Sayan mountainous country [Lysenkova, Purdik, 1995]. A characteristic feature of the western lowlands are steppes, forest-steppe and belt forests, and the eastern part is mountainous, covered with mountain coniferous forests and developed mountain steppes.

The earliest data on heteropteran in Altai Krai were published in the first half of XIX century by Gebler [1830]. 80 years later, Kiritshenko [1910] published his data on bugs of Western Siberia basing on the collection of the Zoological Institute of RAS (ZIN); 65 species of 20 families were registered in the Altai Krai within its current borders of 1992. In her monograph, Petrova [1975] provided data on the distribution and biology of shield bugs in Western Siberia, 56 species

of them were reported for Altai Krai. Vinokurov [2007a, b], Vinokurov and Golub [2007] gave new data on the distribution of heteropteran on the collection of ZIN, and on the collection of the first author from Belokurikha resort environs. Knyshov and Namyatova [2010] compiled an annotated list of bugs of the Tigirek State Reserve, including 162 species, some of them were reported as new to the regional fauna. The information on the distribution of bugs in the Altai Krai is found in various taxonomic and faunistic works [see Vinokurov et al., 2010].

Below, we represent new data on the fauna of Heteroptera in the Altai Krai, basing on the materials of entomological expeditions of the Institute of Biology and Biotechnology (Altai State University).

Material and methods

In 2020, under the guidance of Professor R.V. Yakovlev, studies of Heteroptera were carried out in the north, west and south of the Altai Krai. Blagoveshchensky, Mikhailovsky, Loktevsky, Rubtsovsky, Kuryinsky, Krasnoshchekovsky, Pervomaisky, Charyshsky, Smolensky and Soloneshensky regions were studied (Fig. 1.). The collection was performed by traditional ento-

mological methods: sweeping by entomological net in herbaceous and tree-shrub layers, manual collection from the soil surface and the root part of plants [Golub et al., 2012]. The collected material includes 293 specimens from 14 families.

When listing data on the labels, we used the following abbreviations. The coordinates of the following localities are not mentioned:

Blagoveshchensky District: 15 km SSW of Nizhnyaya Suetka village (53°05'20"N, 79°47'22"E);

Mikhailovsky District: 2 km NNE of Malinovoe Ozero village (51°41'51"N, 79°47'53"E);

Loktevsky District: Vicinity of Ust'yanka village (51°10'03"N, 81°35'39"E), 1 km N of Ust'yanka village (51°09'47"N, 81°35'45"E);

Rubtsovsky District: 4 km W of Nazarovka village (51°25'50"N, 81°36'06"E);

Kuryinsky District: 7.5 km W of Kolyvan village, Loktevka River basin (51°18'08"N, 82°29'05"E);

Krasnoshchekovsky District: 3 km WNW of Ust'-Chagyra village (51°26'17"N, 83°04'13"E);

Pervomaisky District: Mylnikovo village (53°27'50"N, 83°46'33"E);

Charyshsky District: vicinity of the village Sentelek, 5 km SW of the village Mashenka, the basin of the River Charysh (51°14'28"N, 83°48'51"E), Kumir River valley (50°54'38"N, 84°15'56"E; 50°55'17"N, 84°16'01"E);



Fig. 1. Collection points of heteropteran in the Altai Krai. Districts: 1 — Blagoveshchensky, 2 — Mikhailovsky, 3 — Loktevsky, 4 — Rubtsovsky, 5 — Kuryinsky, 6 — Krasnoshchekovsky, 7 — Pervomaisky, 8 — Charyshsky, 9 — Smolensky, 10 — Soloneshensky.

Рис. 1. Пункты сбора полужесткокрылых на территории Алтайского края. Районы: 1 — Благовещенский, 2 — Михайловский, 3 — Локтевский, 4 — Рубцовский, 5 — Курьинский, 6 — Краснощечковский, 7 — Первомайский, 8 — Чарышский, 9 — Смоленский, 10 — Солонешенский.

Smolensky District: Bank of Peschanaya River (52°00'24"N, 84°33'10"E);

Solonshensky District: vicinity of Tog-Altai village, Denisov's Cave (51°26'09"N, 84°36'55"E).

The collectors' surnames are omitted: R.V. Yakovlev, A.A. Fomichev, A.E. Naydenov, Yu.V. Dyachkov, V.V. Rudoi

Annotated list of Heteroptera of the Altai Krai

Family Nabidae A. Costa, 1853

Nabis limbatus Dahlbom, 1851

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♂.

DISTRIBUTION. Euro-Siberian. Recorded from Altai Krai [Kerzhner, 1981].

Nabis tesquorum (Kerzhner, 1968)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 2 ♀.

DISTRIBUTION. Black Sea-Kazakhstan steppe. From south of East Europe east to West Mongolia. Recorded from Altai Krai [Kerzhner, 1981].

Nabis brevis brevis Scholtz, 1847

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂, 3 ♀; 7.5 km W of Kolyvan village, Loktevka river basin, H = 417 m, 1.VI.2020, 2 ♂; Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀; bank of Peschanaya river, H = 310 m, 29.V.2020, 2 ♀; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.V.2020, 1 ♀.

DISTRIBUTION. Euro-Siberian. First record from Altai Krai.

Nabis ferus (Linnaeus, 1758)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. Trans-Euroasian. First record from Altai Krai.

Nabis rugosus (Linnaeus, 1758)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂, 1 ♀.

DISTRIBUTION. From West Europe east to the Enisei River and Altai Mts. Recorded from Altai Krai [Kerzhner, 1981].

Nabis incriptus (Kirby, 1837)

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♂.

DISTRIBUTION. Holarctic. First record from Altai Krai.

Family Anthocoridae Fieber, 1836

Orius niger (Wolff, 1811)

MATERIAL. 7.5 km W of Kolyvan village, Loktevka river basin, H = 417 m, 1.VI.2020, 1 ♂; Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Kiritshenko, 1910].

Family Miridae Hahn, 1833

Deraeocoris ater (Jakovlev, 1889)

MATERIAL. Mylnikovo village, H = 146 m, 13.VII.2019, A.E. Naydenov, K.E. Naydenova leg., 1 ♀.

DISTRIBUTION. South Siberia, South of the Far East.

— North-East China, Korea, Japan. Recorded from Altai Krai [Vinokurov, Golub, 2007].

Adelphocoris lineolatus (Goeze, 1778)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♀; 7.5 km W of Kolyvan village, Loktevka river basin, H = 417 m, 1.VI.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Kiritshenko, 1910; Kulik, 1965b; Putshkov, 1965; Knyshev, Namyatova, 2010].

Adelphocoris quadripunctatus (Fabricius, 1794)

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♀.

Distribution. Transpalaeartic. Recorded from Altai Krai [Vinokurov, Golub, 2009; Knyshev, Namyatova, 2010].

Lygus gemellatus gemellatus (Herrich-Schaeffer, 1835)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂; Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♀; Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 2 ♂, 4 ♀.

DISTRIBUTION. Transpalaeartic. First record from Altai Krai.

Lygus pratensis (Linnaeus, 1758)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀.

DISTRIBUTION. West-Central Palaeartic. — India. Recorded from Altai Krai [Kiritshenko, 1910; Kulik, 1965b].

Lygus rugulipennis Poppius, 1911

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 9–11.VIII.2020, 11 ♂, 6 ♀.

DISTRIBUTION. Holarctic. First record from Altai Krai.

Lygus sibiricus Aglyamzyanov, 1990

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♂.

DISTRIBUTION. From South of West Siberia east to South of Far East. — Mongolia, China, Korea. First record from Altai Krai.

Orthops mutans (Stål, 1858)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂; Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 2 ♂; Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 5 ♂, 2 ♀.

DISTRIBUTION. Siberia. — Mongolia, China. First record from Altai Krai.

Orthops scutellatus Uhler, 1877

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♂; Korgon Mts., Kumir river Valley, H = 880 m, 9–11.VIII.2020, 3 ♀.

DISTRIBUTION. Siberia, South of the Far East. — East China, Korea, Japan, North USA. Recorded from Altai Krai [Vinokurov, Golub, 2007].

Phytocoris pini Kirschbaum, 1856

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♀.

DISTRIBUTION. Euro-Siberian. First record from Altai Krai.

Pinalitus rubricatus (Fallén, 1807)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 2 ♀.

DISTRIBUTION. Euro-Siberian. — Introduced to North America. First record from Altai Krai.

Polymerus unifasciatus (Fabricius, 1794)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♀; Vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Holarctic. Recorded from Altai Krai [Kiritshenko, 1910].

Salignus distinguendus (Reuter, 1875)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂.

DISTRIBUTION. Siberia. — Mongolia, China. Recorded from Altai Krai [Knyshov, Namyatova, 2010].

Stenotus binotatus (Fabricius, 1794)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀.

DISTRIBUTION. Euro-Siberian. Recorded from Altai Krai [Vinokurov, Golub, 2007].

Notostira elongata (Geoffroy, 1785)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Vinokurov, Golub, 2007; Knyshov, Namyatova, 2010].

Stenodema holsata (Fabricius, 1787)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀.

DISTRIBUTION. Euroasian. First record from Altai Krai.

Stenodema sibirica Bergroth, 1914

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–11.VIII.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Siberia, South of the Far East. — China, Korea, Japan. First record from Altai Krai.

Stenodema calcarata (Fallén, 1807)

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8.11.VIII.2020, 2 ♂, 7 ♀; Vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Kiritshenko, 1910; Vinokurov, Golub, 2009].

Anapus rugicollis (Jakovlev, 1877)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♀.

DISTRIBUTION. Euroasian. First record from Altai Krai.

Euryopicoris nitidus (Meyer-Dur, 1843)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂.

DISTRIBUTION. Euro-Siberian. Recorded from Altai Krai [Vinokurov, Golub, 2007].

Labops sahlbergi (Fallén, 1829)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 2 ♂, 2 ♀; Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂, 1 ♀; Vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 2 ♂, 1 ♀.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Vinokurov, Golub, 2007].

Globiceps flavomaculatus (Fabricius, 1794)

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♂.

DISTRIBUTION. Euro-Siberian. Recorded from Altai Krai [Vinokurov, Golub, 2007].

Chlamydatus pulicarius (Fallén, 1807)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♀.

Distribution. Trans-Euroasian. First record from Altai Krai.

Dacota hesperia Uhler, 1872

MATERIAL. Vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Holarctic. First record from Altai Krai.

Plagiognathus arbustorum arbustorum (Fabricius, 1794)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♂.

DISTRIBUTION. Holarctic. Recorded from Altai Krai [Vinokurov, Golub, 2007; Knyshov, Namyatova, 2010].

Psallus anticus (Reuter, 1876)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. Euroasian. First record from Altai Krai.

Family Tingidae Laporte, 1832

Derephysia longispina Golub, 1974

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 2 ♀.

DISTRIBUTION. East Europe, South of West Siberia. Recorded from Altai Krai [Knyshov, Namyatova, 2010].

Tingis ampliata (Herrich-Schaeffer, 1838)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Petrova, 1978; Knyshov, Namyatova, 2010].

Family Reduviidae Latreille, 1807

Phymata crassipes (Fabricius, 1775)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♂; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♀; Charysh river valley, 3 km WNW of Ust'-Chagyra village, H = 330 m, 18–20.V.2020, 2 ♂, 2 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Kanyukova, Vinokurov, 2010; Knyshov, Namyatova, 2010].

Rhynocoris annulatus (Linnaeus, 1758)

MATERIAL. Vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Euro-Baikalian. Recorded from Altai Krai [Gebler, 1830; Oshanin, 1870; Kiritshenko, 1910; Putshkov, 1982; Knyshov, Namyatova, 2010].

Rhynocoris iranducus (Poda, 1761)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagyra village, H = 330 m, 18–20.V.2020, 1 ♀.

DISTRIBUTION. From Europe east to South of West Siberia and North-West China. — Kashmir. Recorded from Altai Krai [Oshanin, 1870; Kiritshenko, 1910; Vinokurov, Kanyukova, 1995a, b].

Family Piesmatidae Amyot et Serville, 1843

Parapiesma quadratum (Fieber, 1844)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♀.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Kanukova, Vinokurov, 2009a].

Family Berytidae Feiber, 1851

Berytinus clavipes (Fabricius, 1775)

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 3 ♀; Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Kanukova, Vinokurov, 2009a; Knyshev, Namyatova, 2010].

Family Lygaeidae Schilling, 1829

Nithecus jacobaeae (Schilling, 1829)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Vinokurov, 2007a; Knyshev, Namyatova, 2010].

Nysius helveticus (Herrich-Schaeffer, 1850)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂, 2 ♀.

DISTRIBUTION. Euroasian. Recorded from Altai Krai [Vinokurov, 2007a; Knyshev, Namyatova, 2010].

Kleidocerys resedae resedae (Panzer, 1797)

MATERIAL. NE of coast of lake Kulundinskoye, 15 km SSW of Nizhnaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♀; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂, 2 ♀; vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 6 ♂, 5 ♀; Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♂, 1 ♀; bank of Peschanaya river, H = 310 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Vinokurov, 2007a].

Platyplax salviae (Schilling, 1829)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Vinokurov, 2007a].

Oxycarenus pallens (Herrich-Schaeffer, 1850)

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 5 ♂, 1 ♀.

DISTRIBUTION. West-Central Palaearctic. — India, Sudan. Recorded from Altai Krai [Vinokurov, 2007b; Knyshev, Namyatova, 2010].

Drymus brunneus brunneus (R.F. Sahlberg, 1848)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 3 ♀.

DISTRIBUTION. Transpalaearctic. First record from Altai Krai.

Eremocoris abietis abietis (Linnaeus, 1758)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 2 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910].

Panaorus adspersus (Mulsant et Rey, 1872) 203

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. Euro-Siberian. Recorded from Altai Krai [Kiritshenko, 1910; Vinokurov, 2007a; Knyshev, Namyatova, 2010].

Rhyparochromus pini (Linnaeus, 1758)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagy-rka village, H = 330 m, 18–20.V.2020, 1 ♀; Korgon Mts., Kumir river valley, H = 888 m, 8–11.VIII.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Vinokurov, 2007a; Knyshev, Namyatova, 2010].

Family Coreidae Leach, 1815

Coreus marginatus marginatus (Linnaeus, 1758)

MATERIAL. 1 km N of Ust'yanka village, H = 330 m, 17–18.V.2020, 2 ♂, 1 ♀; Kizikha river valley, 4 km W of Nazarovka village, H = 270 m, 15–16.V.2020, 1 ♂.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910].

Family Rhopalidae Amyot et Serville, 1843

Corizus hyoscyami hyoscyami (Linnaeus, 1758)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagy-rka village, H = 330 m, 18–20.V.2020, 6 ♂; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♂.

DISTRIBUTION. Transpalaearctic and Oriental. Recorded from Altai Krai [Kiritshenko, 1910].

Rhopalus latus (Jakovlev, 1883)

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–11.VIII.2020, 2 ♂, 2 ♀; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♂, 1 ♀.

DISTRIBUTION. From South of the Far East west to Altai and East Kazakhstan. Recorded from Altai Krai [Kiritshenko, 1910; Knyshev, Namyatova, 2010].

Rhopalus conspersus (Fieber, 1837)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♀.

DISTRIBUTION. From Europe and East Mediterranean east to mountains of Middle Asia and South Siberia. Recorded from Altai Krai [Putshkov, 1986; Knyshev, Namyatova, 2010].

Rhopalus subrufus (Gmelin, 1790)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagy-rka village, H = 330 m, 18–20.V.2020, 1 ♀.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Knyshev, Namyatova, 2010].

Stictopleurus abutilon (Rossi, 1790)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Kanyukova, Vinokurov, 2009a; Knyshev, Namyatova, 2010].

Stictopleurus crassicornis (Linnaeus, 1758)

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂; vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 4 ♂; Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 2 ♂, 2 ♀; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Kiritshenko, 1910; Knyshev, Namyatova, 2010].

Stictopleurus punctatonervosus (Goeze, 1778)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♀; 1 km N of Ust'yanka village, H = 330 m, 17–18.V.2020, 1 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Knyshev, Namyatova, 2010].

Myrmus miriformis miriformis (Fallén, 1807)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀, 2 ♂.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Kiritshenko, 1910; Knyshev, Namyatova, 2010].

Family Plataspidae Dallas, 1851

Coptosoma mucronatum Seidenstücker, 1963

Figs 2–3.

MATERIAL. Bank of Peschanaya river, H = 310 m, 29.VI.2020, 1 ♂, 3 ♀.

DISTRIBUTION. Steppe and semi-deserts of Europe and Kazakhstan. New record of the fauna of Siberia. This species inhabits on bank of the Peschanaya River (Smolensky District) together with *Coptosoma scutellatum*.

Coptosoma scutellatum (Geoffroy, 1785)

Figs 4–5.

MATERIAL. Bank of Peschanaya river, H = 310 m, 29.VI.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Transpalaeartic. Recorded from Altai Krai [Gebler, 1830; Oshanin, 1870; Jakovlev, 1875; Kiritshenko, 1910; Knyshev, Namyatova, 2010].

Family Acanthosomatidae Signoret, 1864

Elasmotherus interstinctus (Linnaeus, 1758)

MATERIAL. N coast of lake Yodnoe, 2 km NNE of Malinovo Ozero village, H = 160 m, 13–14.V.2020, 2 ♂; 1 km N of

Ust'yanka village, H = 330 m, 17–18.V.2020, 9 ♂, 1 ♀; Kizikha river valley, 4 km W of Nazarovka village, H = 270 m, 15–16.V.2020, 1 ♂; vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 5 ♂, 6 ♀.

DISTRIBUTION. Holarctic. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975].

Elasmucha fieberi (Jakovlev, 1865)

MATERIAL. Bank of Shchebnyukha river, H = 420 m, 31.05.2020, 1 ♂; Korgon Mts., Kumir river valley, H = 888 m, 8–11.VIII.2020, 1 ♂, 3 ♀; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♂.

DISTRIBUTION. Euro-Siberian. Recorded from Altai Krai [Kiritshenko, 1910].

Elasmucha grisea (Linnaeus, 1758)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnaya Suetka village, H = 100 m, 10–12.V.2020, 3 ♀; N coast of lake Yodnoe, 2 km NNE of Malinovo Ozero village, H = 160 m, 13–14.05.2020, 1 ♀.

DISTRIBUTION. Euro-Siberian. First record from Altai Krai.

Family Cydnidae Billberg, 1820

Canthophorus impressus (Horvath, 1880)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagyrka village, H = 330 m, 18–20.V.2020, 1 ♀.

DISTRIBUTION. Euro-Baikalian. Recorded from Altai Krai [Asanova, 1964; Petrova, 1975].



Figs 2–5. Species of the genus *Coptosoma*: 2–3 — *C. mucronatum*; 4–5 — *C. scutellatum*; 2, 4 — habitus; 3, 5 — ♂ genital segment.
Рис. 2–5. Виды рода *Coptosoma*: 2–3 — *C. mucronatum*; 4–5 — *C. scutellatum*; 2, 4 — внешний вид, 3, 5 — генитальный сегмент самца.

Family Scutelleridae Leach, 1815

Eurygaster dilaticollis Dornh, 1860

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagy-rka village, H = 330 m, 18–20.V.2020, 1 ♂.

DISTRIBUTION. Euroasian. Recorded from Altai Krai [Petrova, 1975].

Family Pentatomidae Leach, 1815

Arma custos (Fabricius, 1794)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♀.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975].

Aelia acuminata (Linnaeus, 1758)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnyaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♀; Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Gebler, 1830; Oshanin, 1870; Kiritshenko, 1910; Petrova, 1975].

Aelia klugii Hahn, 1833

MATERIAL. Kizikha river valley, 4 km W of Nazarovka vil-lage, H = 270 m, 15–16.V.2020, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975].

Neottiglossa leporina (Herrich-Schaeffer, 1830)

MATERIAL. Vicinity of Ust'yanka village, H = 368 m, 1.VI.2020, 2 ♂; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 2 ♂, 2 ♀; Charysh river valley, 3 km WNW of Ust'-Chagyryka village, H = 330 m, 18–20.V.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975; Knyshov, Namyatova, 2010].

Neottiglossa pusilla (Gmelin, 1790)

MATERIAL. Korgon Mts., Kumir river valley, H = 888 m, 8–9.VIII.2020, 1 ♂; Bank of Peschanaya river, H = 310 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Trans-Euroasian. Recorded from Altai Krai [Kanyukova, Vinokurov, 2009b; Knyshov, Namyatova, 2010].

Antheminia lunulata (Goeze, 1778)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnyaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♀.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Kulik, 1965a; Petrova, 1975; Kerzhner, 1972].

Carpocoris purpureipennis (De Geer, 1773)

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂; Charysh river valley, 3 km WNW of Ust'-Chagyryka village, H = 330 m, 18–20.V.2020, 2 ♀; Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 2 ♀; Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♂.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975; Knyshov, Namyatova, 2010].

Carpocoris fuscispinus (Boheman, 1851)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnyaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♂, 1 ♀; 1 km N of Ust'yanka village, H = 330 m, 17–18.05.2020, 1 ♀; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♀.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Petrova, 1975; Derzhankiy, 1990].

Dolycoris baccarum (Linnaeus, 1758)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagy-rka village, H = 330 m, 18–20.V.2020, 1 ♀; vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♀; Korgon Mts., Kumir river valley, H = 888 m, 8–11.VIII.2020, 2 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975].

Peribalus strictus vernalis (Wolff, 1804)

MATERIAL. 1 km N of Ust'yanka village, H = 330 m, 17–18.05.2020, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Petrova, 1975].

Palomena prasina (Linnaeus, 1761)

MATERIAL. Korgon Mts., Kumir river valley, H = 880 m, 9–11.VIII.2020, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Petrova, 1975].

Palomena viridissima (Poda, 1761)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 2 ♂, 2 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kiritshenko, 1910].

Rubiconia intermedia (Wolff, 1811)

MATERIAL. Charysh river valley, 3 km WNW of Ust'-Chagy-rka village, H = 330 m, 18–20.V.2020, 1 ♀; vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♀; Bank of Peschanaya river, H = 310 m, 29.VI.2020, 1 ♂; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Kanyukova, Vinokurov, 2009b; Knyshov, Namyatova, 2010].

Eysarcoris aeneus (Scopoli, 1763)

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva River basin, H = 417 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Knyshov, Namyatova, 2010].

Piezodorus lituratus (Fabricius, 1794)

MATERIAL. 1 km N of Ust'yanka village, H = 330 m, 17–18.V.2020, 1 ♀; vicinity of Tog-Altai village, Denisov's Cave, H = 610 m, 29.VI.2020, 1 ♂, 1 ♀.

DISTRIBUTION. Transpalaearctic. Recorded from Altai Krai [Petrova, 1975; Knyshov, Namyatova, 2010].

Eurydema oleracea (Linnaeus, 1758)

MATERIAL. 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♀; vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♂.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Kiritshenko, 1910; Petrova, 1975].

Eurydema ornata (Linnaeus, 1758)

MATERIAL. NE coast of lake Kulundinskoye, 15 km SSW of Nizhnyaya Suyetka village, H = 100 m, 10–12.V.2020, 1 ♀; Kizikha river valley, 4 km W of Nazarovka village, H = 270 m, 15–16.V.2020, 2 ♀; 7.5 km W of Kolyvan village, Loktevkva river basin, H = 417 m, 1.VI.2020, 1 ♂.

DISTRIBUTION. West-Central Palaearctic. Recorded from Altai Krai [Gebler, 1830; Oshanin, 1870; Mamaev, 1929; Kovrigin, 1958, 1965; Kulik, 1965a; Petrova, 1975].

Eurydema dominulus (Scopoli, 1763)

MATERIAL. Vicinity of Sentelek village, 5 km SW of Mashenka village, Charysh river basin, H = 625 m, 30.V.2020, 1 ♀; Korgon Mts., Kumir river Valley, H = 880 m, 9–11.VIII.2020, 1 ♀.

DISTRIBUTION. Transpalearctic. Recorded from Altai Krai [Kiritshenko, 1910].

Graphosoma lineatum (Linnaeus, 1758)

MATERIAL. 1 km N of Ust'yanka village, H = 330 m, 17–18.V.2020, 1 ♂, 1 ♀; Kizikha river valley, 4 km W of Nazarovka village, H = 270 m, 15–16.V.2020, 2 ♀.

DISTRIBUTION. West-Central Palearctic. Recorded from Altai Krai [Oshanin, 1870; Kiritshenko, 1910; Petrova, 1980].

Conclusion

The article provides data on 84 species of Heteroptera of 15 families. Among them, *Coptosoma mucronatum* Seidenstucker, 1963 (Plataspidae) is a new species for Siberia, and 17 species are new for Altai Krai: *Nabis brevis brevis*, *N. ferus*, *N. incriptus*, (Nabidae); *Lygus gemellatus gemellatus*, *L. rugulipennis*, *L. sibiricus*, *Orthops mutans*, *Phytocoris pini*, *Pinalitus rubricatus*, *Stenodema holsata*, *S. sibirica*, *Anapus rugicollis*, *Chlamydatus pulicarius*, *Dacota hesperia*, *Psal-lus anticus* (Miridae); *Drymus brunneus brunneus* (Lygaeidae), *Elasmucha grisea* (Acanthosomatidae).

According to the recent data, the fauna of Heteroptera of Altai Krai now includes 340 species of 180 genera belonging to 29 families. The bugs fauna of investigated territory is studied insufficiently, as evidenced by the discovery of new species, including 18 species indicated in this article, which were previously reported from the adjacent regions.

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