

New records of true bugs (Heteroptera) from Khakasia

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The paper contains data of 15 species of heteropterous insects from 8 families for the first time found for Khakassia.

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Introduction

The territory of Khakassia compared with other regions of Eastern Siberia relatively to hemiptera has been studied much less. Only 238 bugs are listed according to the latest data (Vinokurov, Kanyukova, & Golub, 2010; Babichev & Vinokurov, 2011). The author's research work carried out within one field season of the Minusinsk Basin exactly in the Coibal steppes allowed to find 15 new species of Hemiptera.

The Koibal steppe is located between the and the rivers, between 53° 04' and 53° 40' northern latitude. It is characterized by interchange of gentle uplands, sandstones, small closed basins (about 300–350 meters above sea level) occupied by salt lakes. The examined meadows and steppes are located next to the Koibal irrigation system presenting ancient Yenisei River. Polydominant bunchgrass cereal steppes are wide-distributed in the Coibal steppe. Coarse-grained feather-grass steppes are less common in black humus earth lands. Plowed steppes are more mesophilic, include about 40 species of plants with a significant participation of steppe cereal grasses and forbs. There are cheegrass (*Lasiagrostis*), lyme grass (*Elymus*), hemp nettle (*Galeopsis*) from the saline steppes of the Koibal steppe (Kuzmin, 2007).

Material and methods

Bugs (Hemiptera) were collected mainly mowing grass vegetation using entomological net. Manual method of collecting the exhaustor was used in the collection of materials. Further the insects were pickled with ethyl acetate and mounted on entomological pins.

The material is stored at the Common Use Center "Biological Collection Center" ("Terrestrial Invertebrates" Sector) of Tuvanian Institute for Exploration of Natural Resources of the Siberian Branch of the of Sciences (Russia, Kyzyl). Information about species distribution are taken from the Catalogue of the Heteroptera of the Asian part of Russia (Vinokurov et al., 2010).

Species list

Family **MIRIDAE**

Stenodema trispinosa Reuter, 1904

MATERIAL. Altai Distr., 15 km village, River Abakan, duct, Poa meadow (53,377121N, 90,985647E), 21.VII. 2018 (Kuzhuget S.V.), 2♀.

DISTRIBUTION. Holarctic.

Stenotus binotatus (Fabricius, 1794)

MATERIAL. Altai Distr., village, River Abakan, duct, Poa meadow (53,377121N, 90,985647E), 21.VII.2018 (Kuzhuget S.V.), 1♀.

DISTRIBUTION. European-Siberian.

Pilophorus mongolicus Kerzhner, 1984

MATERIAL. Altai Distr., village, River Abakan, duct, Poa meadow (53,377121N, 90,985647E), 21.VII. 2018 (Kuzhuget S.V.), 1♂.

DISTRIBUTION. Siberia. - Mongolia.

Closterotomus samojedorum (J. Sahlberg, 1878)

MATERIAL. Altai Distr., village, River Abakan, duct, Poa meadow (53,377121N, 90,985647E), 21.VII. 2018 (Kuzhuget S.V.), 1♀.

DISTRIBUTION. North European part of Russia, Siberia. - Mountains of Central Asia.

Halticus pusillus (Herrich-Schaeffer, 1835)

MATERIAL. Beysky Distr., village, River Solobool, floodplain (53,319633N, 90,885430E), 24.VII.2018 (Kuzhuget S.V.), 2♂, 2♀.

DISTRIBUTION. European-Siberian.

Family **TINGIDAE**

Dictyla minuta Golub, 1976

MATERIAL. Altai Distr., SE Arshanovo village, sea buckthorn thickets (53,375021N, 90,017469E), 26.VI.2018 (Kuzhuget S.V.), 1♂.

DISTRIBUTION. East steppe.

Dictyla lupuli (Herrich-Schaeffer, 1837)

MATERIAL. Altai Distr., village, River Abakan, duct, Poa meadow (53,319633N, 90,885430E), 21.VII.2018 (Kuzhuget S.V.), 1♀.

DISTRIBUTION. European-Siberian.

Lasiacantha kaszabi Hoberlandt, 1977

MATERIAL. Altai Distr., village, River Abakan, duct, Poa meadow (53,319633N, 90,885430E), 21.VII. 2018 (Kuzhuget S.V.), 1♂.

DISTRIBUTION. East Siberia. - Mongolia.

Kalama tricornis (Schrank, 1801)

MATERIAL. Altai Distr., S Arshanovo village, bluegrass-wormwood steppe (53,352518N, 91,063673E), 22.VII.2018 (Kuzhuget S.V.), 1 ♀.

DISTRIBUTION. Holarctic.

Family **LYGAEIDAE**

Peritrechus convivus (Stål, 1858)

MATERIAL. Altai Distr., SE Arshanovo village, feather grass and wormwood steppes with *Achnatherum splendens* (53,378688N, 91,051692E), 08.V.2018 (Kuzhuget S.V.), 3♂, 3♀; Beysky Distr., SW Shalginov village, Poa meadow (53,316419N, 90,9187573E), 25.VI.2018 (Kuzhuget S.V.), 5♀.

DISTRIBUTION. Holarctic.

Family **RHOPALIDAE**

Myrmus miriformis miriformis (Fallen, 1807)

MATERIAL. Altai Distr., SE Arshanovo village, caraganno-grass steppe (53,35N, 91,066667E), 21.III.2018, 3♀.

DISTRIBUTION. Transpalearctic.

Family **PIESMATIDAE**

Parapiesma salsolae (Becker, 1867)

MATERIAL. Beysky Distr., S Shalginov village, alkali soils, collection with *Salsola* spp. (53,304531N, 90,918346E), 26.VI.2018 (Kuzhuget S.V.), 1♀.

DISTRIBUTION. European-Siberian. – Mountains of Central Asia

Family **BERYTIDAE**

Berytinus crassipes (Herrich-Schaeffer, 1835)

MATERIAL. Altai Distr., SE Arshanovo village, meadow steppe (53,377603N, 91,038214E), 09.V.2018 (Kuzhuget S.V.), 1♂.

DISTRIBUTION. European-Siberian.

Family **COREIDAE**

Coriomerus scabricornis scabricornis (Panzer, 1805)

MATERIAL. Altai Distr., S Arshanovo village, grass-wormwood-feather grass steppe (53,368766N, 91,046873E), 22.VII.2018 (Kuzhuget S.V.), 1♂.

DISTRIBUTION. Transpalearctic.

Family **RHOPALIDAE**

Rhopalus parumpunctatus Schilling, 1829

MATERIAL. Altai Distr., S Arshanovo village, grass-wormwood-feather grass steppe (53,368766N, 91,046873E), 22.VII.2018 (Kuzhuget S.V.), 1♀.

DISTRIBUTION. Transpalearctic.

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