

## New data on Heteroptera fauna of Zabaikalskii Krai, Russia

## Новые данные о фауне клопов (Heteroptera)

## Забайкальского края

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**Ключевые слова:** Heteroptera, полужесткокрылые, фауна, Забайкальский край, Восточная Сибирь, новые указания.

**Abstract.** Eight species of the true bugs from the families Nabidae, Miridae, Tingidae, Piesmatidae and Lygaeidae are recorded from Zabaikalskii krai of Russia for the first time.

**Резюме.** Восемь видов полужесткокрылых насекомых из семейств Nabidae, Miridae, Tingidae, Piesmatidae и Lygaeidae приводятся впервые для фауны Забайкальского края.

## Introduction

Heteroptera or true bugs, the largest group among hemimetabolous insects [Henry, 2009], is presented in East Siberia by at least 630 species [Vinokurov et al., 2010]. According to earlier publications it was known about 250 species for Zabaikalskii krai [Kerzhner, 1962, 1981; Kulik, 1974; Kanyukova, Vinokurov, 2009a, b; Vinokurov, 2007]. However, this number is certainly underestimated because of few numbers of regional studies. The only special paper about true bugs of the territory is a publication of V.P. Petrova with colleagues [Petrova et al., 2004]. The article is devoted to the Heteroptera fauna of the Sohondinskii reserve. All available data on the true bugs fauna of Zabaikalskii krai were summarized in a recently published Catalogue of the Heteroptera of the Asian part of Russia [Vinokurov et al., 2010].

## Materials and methods

The paper is based on the material collected by the author in the State Nature Biosphere Reserve Daurskii, in the Federal refuge Dolina dzerena and near the Federal refuge Tsasucheykii Bor in August 2014. The reserve and the refuges are located in the Ononskii and Borzinskii districts of Zabaikalskii krai. The largest settlements of the study area are Nizhnii Tsasuchei village and Borzya town. The study area is located in close proximity to Mongolia and China (Fig. 1).

The climatic conditions of the region are sharply continental, with large daily (15–20 °C) and annual (from +40 to –40 °C) temperature fluctuations, continuous and strong (20–30 m/s) winds. There is about 150–350 mm of rainfall throughout the year. Winter here is long and with little snow [Lokot' et al., 1991].

The material was collected near the small soda lakes (some lakes are nameless). Due to the dry climate and soda soils the territory is covered by halophilic drought-resistant plant communities.

Techniques for collecting true bugs included sweeping of vegetation using a collecting net, beating tree foliage, hand collecting from grass and trees. To find ground-dwelling bugs, hand-searching through plant litter was used. The insects were killed with ethyl acetate soon after capture [Golub et al., 2012].

## Results

As a result 8 species of Heteroptera belonging to 5 families and 8 genera are noted in Zabaikalskii krai for the first time. Below is an annotated list of new species of true bugs for the fauna of the region. The distribution of species is listed according to the Catalogue of the Heteroptera of the Palaearctic Region [1996, 1999, 2001] and the Catalogue of the Heteroptera of the Asian part of Russia [Vinokurov et al., 2010].

## Nabidae

*Nabis sinicus* (Hsiao, 1964)

**Material.** 23 km SSW Nizhnii Tsasuchei (N 50°18'29", E 114°58'31"), under *Suaeda* sp., 22.VIII.2014, 4♂♂, 3♀♀.

**Distribution.** Russia: Buryatia; Mongolia; China; Japan.

## Miridae

*Polymerus cognatus* (Fieber, 1858),

**Material.** 17.5 km SSE Nizhnii Tsasuchei, near Yakshi lake (N 50°21'46", E 115°12'51"), weed herbs with *Axyris* sp., *Carex* sp., *Saussurea* sp., 22.VIII.2014, 5♂♂, 8♀♀.

**Distribution.** Holarctic region.

*Pherolepis aenescens* (Reuter, 1901)

**Material.** 30 km SW Nizhnii Tsasuchei (N 50°26'23", E 114°54'47"), on *Ulmus pumila* L., 22.VIII.2014, 1♂, 2♀♀.

**Distribution.** Russia: Siberia, South of the Far East; China; Korea.

## Tingidae

*Elasmotropis distans* (Jakovlev, 1903)

**Material.** 29 km SW Nizhnii Tsasuchei (N 50°24'52", E 114°43'41"), on *Pentaphylloides parvifolia* (Fischer ex Lehmann) Sojak, 22.VIII.2014, 1♂, 1♀.

**Distribution.** Steppe zone of North Asia.

*Lasiacantha haplophylli* Golub, 1977

**Material.** 25 km SW Nizhnii Tsasuchei (N 50°25'55", E 114°56'20"), xerophytic herbs, 22.VIII.2014, 2♂♂, 1♀.

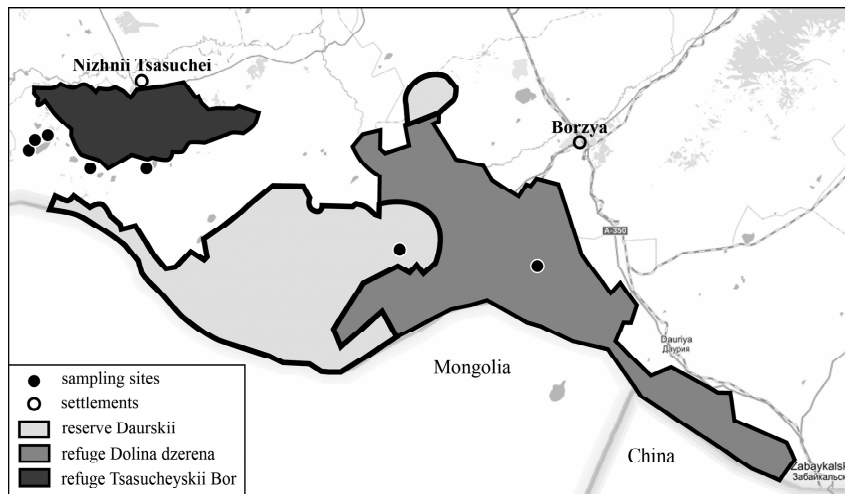


Fig. 1. Map of the reserve Dauriskii, refuges Dolina Dzerena and Tsasucheykskii Bor with points of Heteroptera sampling.  
Рис. 1. Карта заповедника Даурский, заказников Долина Дзерена и Цасучейский Бор с точками сбора полужесткокрылых насекомых.

**Distribution.** Russia: Eastern Siberia; Mongolia; North-East China.

*Tingis platynota* Golub, 1976

**Material.** 50 km SW Borzuya, near Zanday lake (N 50°03'02", E 116°03'27"), xerophytic herbs, 20.VIII.2014, 4♂♂, 7♀♀.

**Distribution.** Russia: Tyva; Mongolia.

**Piesmatidae**

*Parapiesma kerzhneri* Heiss et Pericart, 1983

**Material.** 34 km SSW Borzuya, near Bishikhan lake (N 50°18'45", E 115°26'28"), under *Suaeda* sp., 20.VIII.2014, 4♂♂, 3♀♀.

**Distribution.** Russia: Altai; Mongolia; China.

**Lygaeidae**

*Henestarsis halophilus* (Burmeister, 1835)

**Material.** 50 km SW Borzuya, near Zanday lake (N 50°03'02", E 116°03'27"), xerophytic herbs, 20.VIII.2014, 2♂♂, 2♀♀; 23 km SSW Nizhnii Tsasuchei, (N 50°18'29", E 114°58'31"), in plant litter, 22.VIII.2014, 2♂♂, 3♀♀.

**Distribution.** Morocco; Europe; Asia (except Russian Far East and South of East Asia).

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