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First record of the subfamily Anoplophilinae (Orthoptera: Rhaphidophoridae) from Russia with description of a new species of the genus *Alpinanoplophilus* Ishikawa, 1993

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Abstract

The subfamily Anoplophilinae (Rhaphidophoridae) is recorded from Russia for the first time. *Alpinanoplophilus kurilensis* Storozhenko, **sp. nov.** is described from Kunashir Island. The holotype of the new species is deposited in the Zoological Institute of Russian Academy of Science (St. Petersburg, Russia). A revised key to the species of the genus *Alpinanoplophilus* Ishikawa, 1993 is provided.

Key words: Orthoptera, Rhaphidophoridae, *Alpinanoplophilus*, taxonomy, new species, Kunashir, Russia

Introduction

The subfamily Anoplophilinae (Orthoptera: Rhaphidophoridae) comprises of 28 species in two genera, *Anoplophilus* Karny, 1931 and *Alpinanoplophilus* Ishikawa, 1993, which are distributed in Japan and Republic of Korea (Karny, 1931; Furukawa, 1938; Ishikawa, 1993, 2000, 2002; Ichikawa *et al.*, 2006; Storozhenko & Paik, 2010). In 2013 four specimens of these insects were collected by Russian entomologists in the extremely northern part of Kunashir Island. Here the subfamily Anoplophilinae is firstly recorded from Russia. A new species of the genus *Alpinanoplophilus* is described below and the revised key to species is given also.

Material and methods

The material examined was given for me by Dr. K.V. Makarov (Moscow State Pedagogic University) and Dr. Yu.N. Sundukov (Kurilsky Nature Reserve). All specimens were preserved in alcohol but later three paratypes were pinned and dried. Male genitalia were prepared by placing the dissections in the 10% solution of KOH for about twelve hours. Whole bodies were photographed with Canon EOS D6 digital camera using EF 100 mm f/2.8L Macro IS USM macro lens, Falcon Eyes SLK-2400S flash, and Combine ZM imaging software. Latin names of plants are given after Barkalov (2009). The holotype of the new species is deposited in the Zoological Institute of the Russian Academy of Science (St. Petersburg), the paratypes are kept in the Institute of Biology and Soil Science, Far Eastern Branch of the Russian Academy of Sciences (Vladivostok).

Taxonomy

Family Rhaphidophoridae Walker, 1869

Subfamily Anoplophilinae Storozhenko & Paik, 2010