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Taxonomic study of Central Asian species of the genus *Macropsis* Lewis, 1836 (Homoptera: Auchenorrhyncha: Cicadellidae: Macropsinae). II: Redescriptions of poorly known species, new synonyms, and description of a new willow-dwelling species

DMITRI YU. TISHECHKIN

Department of Entomology, Faculty of Biology, M.V. Lomonosov Moscow State University, Vorobyevy Gory, Moscow, 119991 Russia.
E-mail: macropsis@yandex.ru

Abstract

Macropsis validiuscula Dubovsky, 1966, *M. vicina* (Horvath, 1897) = *M. populicola* Dubovsky, 1966 = *M. albinata* Dubovsky, 1966, **syn. n.** = *M. albidula* Dubovsky, 1966, **syn. n.**, *M. iliensis* Mityaev, 1971 and *M. elaeagnicola* Dubovsky, 1966 are redescribed and illustrated based on material from Tien Shan Mts. (Kyrgyzstan) and Ferghana Valley (Uzbekistan), *M. tienschanica* Tishetshkin **sp. n.** from West Tien Shan Mts. (Kyrgyzstan) is described. *M. iliensis* Mityaev, 1971 is recorded from Kyrgyzstan for the first time. Data on host plants and male vibrational calling signals for all species considered are provided.

Key words: Auchenorrhyncha, Cicadellidae, *Macropsis*, taxonomy, Central Asia, acoustic signals, host plants

Introduction

The leafhopper genus *Macropsis* Lewis, 1836 (Homoptera: Auchenorrhyncha: Cicadellidae: Macropsinae) includes over 100 Palearctic species. Most of them are cryptic species hardly distinguishable by morphological characters. For this reason, presently the genus includes a considerable number of forms of uncertain taxonomic status. Some are known only from original descriptions, others are widespread and well presented in collections, but their status still is open to question. Revision of *Macropsis* of Russia (Tishechkin, 1999, 2002) with use of acoustic signal analysis enabled us to identify almost all such forms described from this territory and to embark on a study of *Macropsis* of adjacent regions of Central Asia (Tishechkin, 2011, 2012, 2013).

The majority of Central-Asiatic *Macropsis* species were described from Southern Kazakhstan, Kyrgyzstan and Uzbekistan (Dubovskiy, 1966; Mityaev, 1971). Identification of these species based on original descriptions as a rule is impossible and their redescription and verification of species status is urgently needed. Previously we have published redescriptions of a number of species from Central Asia with data on the host plants and acoustic signals and established some synonyms (Tishechkin, 2011, 2012, 2013). In this paper, one new species is described and data on the other four species from the Tien Shan Mts., with two new synonyms, are given below.

Material and methods

Identification of *Macropsis* species described by Mityaev (1971) is based on reinvestigation of paratypes. Our attempts to reinvestigate type specimens of taxa described by Dubovskiy (1966) were fruitless: we received no response to requests from either institution. Thus, investigation of species in their type localities or in adjacent territories was conducted to clarify the identities of species based on morphology, male calling signals and host-plant associations.

In insects using acoustic signals for attracting conspecific individual, differences in calling signal patterns

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