



Review of the leafhopper genus *Evinus* Dlabola (Hemiptera: Cicadellidae: Deltocephalinae)

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Abstract

The leafhopper genus *Evinus* Dlabola (Deltocephalinae: Macrostelini) is reviewed. Seven new species are described including *E. angulatus* sp. nov., *E. hainanensis* sp. nov., *E. longus* sp. nov., *E. obscurus* sp. nov., *E. planus* sp. nov., *E. sinuatus* sp. nov. *E. tenuis* sp. nov. One previously described species, *E. peri* Anufriev, newly recorded from China, is redescribed. The species of the genus have so far been recorded from Iran, Tajikistan, Kyrgyzstan and China; here several new species from Thailand are added. A checklist and a key to species (males) are also provided.

Key words: Auchenorrhyncha, taxonomy, Macrostelini

Introduction

Evinus Dlabola is a genus of small, enigmatic, dorsoventrally flattened grass-feeding leafhoppers recorded from the Palearctic and Oriental regions. The genus was originally placed in Hecalini because of the flattened body and produced head (Dlabola, 1977), but later transferred to the tribe Macrostelini based on the characters of the wings, the position of ocelli and the female genitalia (Lu *et al.*, 2011). The morphology-based phylogeny of Zahniser & Dietrich (2008) placed *Evinus* close to *Balclutha* (Macrostelini). However, it differs from this and other genera by its male genitalia, particularly its short subgenital plate with a triangular lobe directed dorsally on the lateral margin. Upon further investigation and collection, we have found the morphological characters of the male abdomen to be highly stable within the species and even across the geographic range of the species in the genus. The usual differences between leafhopper species, i.e., in the male genitalia are subtle, but remain stable across the geographic range of the species for which specimens from multiple localities are known. This paper describes seven new species in the genus *Evinus* and adds one new record for China. Earlier the species of the genus were known from Iran, Tajikistan, Kyrgyzstan and China, and we now add five new species from Thailand and two from southern China. A checklist and key to males of *Evinus* are also provided.

Material and methods

The type specimens and other material examined are deposited in the Entomological Museum, Northwest A&F University, Yangling, Shaanxi, China (NWAUF); Illinois Natural History Survey, University of Illinois at Urbana-Champaign, USA (INHS); Queen Sirikit Botanical Garden, Chiang Mai, Thailand (QSBG) and the Natural History Museum, London, U.K. (BMNH). Terminology follows Zhang (1990), Knight & Webb (1993), Dietrich (2005), and Hamilton & Kwon (2010). Apodemes of the basal abdominal segments of the males are referred to as follows: 1st sternal apodeme = 1S; 2nd sternal apodeme = 2S; 2nd tergal apodeme = 2T.