



A review of the genus *Abaxisotima* Gorochov, 2005 (Orthoptera: Tettigoniidae: Phaneropterinae)

GANG WANG & FU-MING SHI¹

College of Life Sciences, Hebei University, Baoding 071002, P. R. China

¹Corresponding author. E-mail: shif_m@126.com, shfmi@yahoo.com.cn

Abstract

A key to species of the genus *Abaxisotima* Gorochov, 2005 is presented and a new species, i.e. *Abaxisotima spiniforma* sp. nov is described. We also provide a supplementary description of *Abaxisotima bicolor* (Liu, Zheng & Xia, 1991). All specimens are deposited in the Museum of Hebei University.

Key words: Orthoptera, Phaneropterinae, *Abaxisotima*, review

Introduction

The genus *Abaxisotima* was established by Gorochov in 2005 with type species *Shirakisotima furca* Gorochov & Kang, 2002. Gorochov also transferred *Sh. multipunctata* (Kang & Yang, 1989), and *Sh. brevifissa* Wang & Liu, 1996 to the genus, and thought *Sh. acuminata* Wang & Liu, 1996 is possibly a synonym of *A. multipunctata*. We studied specimens of *Sh. bicolor* Liu, Zheng & Xia, collected from type locality (Mabian, Sichuan), thinking that the species might belong to *Abaxisotima*.

This paper revises the characters distinguishing *Abaxisotima*, provides a key to Chinese species of the genus, and describes one new species from China. The material deposited in the Museum of Hebei University.

Abaxisotima Gorochov, 2005

Abaxisotima: Gorochov, 2005. *Zoosystematica Rossica*, 13(2): 242; Eades & Otte, 2009: Orthoptera Species File Online [Version 2.0/3.5].

General diagnosis Fastigium verticis at hind part with weak and short inflation, with lateral ocelli on basal part. Left tegmen of male without distinct longitudinal vein between stridulatory vein and anterior region on dorsal area, but with additional longitudinal vein in more distal part of the area; right tegmen of male with rounded mirror and large mirror-like transparent cell situated between mirror, lateral edge of dorsal area, and longitudinal additional vein of this area. All femora with 1–2 spines on genicular lobe. Usually the male genitalia bears a pair of sac-like semisclerotized structures provided with numerous small spinules, but not forming any ring-like structure.

Key to Chinese species of *Abaxisotima* (based on males)

- 1 Cercus with inner subapical spine 2
- Cercus without inner subapical spine 3