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New *Acosmetura* species (Orthoptera: Tettigoniidae: Meconematinae) from China, with notes on their distribution

XUN BIAN & FU-MING SHI¹

The Key Laboratory of Zoological Systematics and Application, College of Life Sciences, Hebei University, Baoding, 071002, P. R. China

¹Corresponding author. E-mail: shif_m@126.com

Abstract. One new species of *Acosmetura* (Orthoptera: Tettigoniidae: Meconematinae) is described from China, namely *Acosmetura listrica* Bian & Shi, **sp. nov.** and distinctive characters are illustrated. In addition, a key to the known species with morphological photographs of *Acosmetura longicercata* Liu, Zhou & Bi, 2008 from Tianmushan, Zhejiang is provided in this paper. Based on the comprehensive physical geographical regionalization, *Acosmetura listrica* **sp. nov.** is distributed in Huinan and the middle and lower reaches of Changjiang River, which belongs to the Northern Subtropical Humid Climate Zone.

Key word: new species, description, *Acosmetura*, Meconematinae, China

Introduction

This paper continues to record the *Acosmetura* (Bian *et al.*, 2014) fauna of Chinese Meconematinae. The previous study described one new species, and provided the morphological photographs for four Chinese species (Bian *et al.*, 2014). Now nine species are reported from China. This genus seems endemic to central China.

This study is based on material from collections of the Museum of Hebei University. Along with the description of the new species, a new key to all known species of *Acosmetura* is also provided here.

Key to known species of *Acosmetura*

- 1 Dorsal surface of abdomen without a longitudinal brown stripe..... 2
- Dorsal surface of abdomen with a longitudinal brown stripe..... 3
- 2 Male cerci nearly straight, apical area with 1 lobe on ventral margin; posterior margin of female subgenital plate obtusely rounded..... *Acosmetura emeica* Liu & Zhang, 2007
- Male cerci hook-shaped, apices acute, which curved upward; posterior margin of female subgenital plate with 1 concavity in the middle..... *Acosmetura listrica* Bian & Shi **sp. nov.**
- 3 Apices of postfemora not dark..... 4
- Apices of postfemora dark..... 8
- 4 Male tenth abdominal tergite obviously projecting backward and ventrad, posterior margin with 1 U-shaped concavity in the middle; male cerci short and covered by tenth abdominal tergite *Acosmetura brevicerca* Liu, 2000
- Male cerci elongate, exposed..... 5
- 5 Basal area of male cerci not concave ventrad..... 6
- Basal area of male cerci concave ventrad, flat, apices of the inner margin nearly triangular *Acosmetura mabianensis* Bian & Shi, 2014
- 6 Female subgenital plate wider than long 7
- Female subgenital plate longer than wide, with posterior margin concave, male unknown *Acosmetura emarginata* Liu, 2000
- 7 Middle area of male cerci slightly broadened, apical area depressed; female subgenital plate with a longitudinal groove *Acosmetura forcipata* Liu, Zhou & Bi, 2008
- Subapical area of male cerci slightly broadened, apex truncate; female subgenital plate semicircular, median carina obviously raised ventrad *Acosmetura jinyunesnis* (Shi & Zheng, 1994)