



New synonymies in Chinese Oxyinae (Orthoptera: Acrididae)

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Abstract

The genera *Oxyoides* Zheng & Fu, 1994, *Yinia* Liu & Li, 1995 and *Caryandoides* Zheng & Xie, 2007 are revised. As a result of the revision, the genus *Oxyoides* is synonymized with *Oxya* Audinet-Serville, 1831, and the genus *Caryandoides* is synonymized with *Yinia*. As for the three known members of *Oxyoides*, the type species *Oxyoides wulingshanensis* Zheng & Fu, 1994 is proposed as a new junior synonym of *Oxya agavisa* Tsai, 1931, the two other members, i.e. *Oxyoides bamianshanensis* Fu & Zheng, 1999 and *Oxyoides longianchorus* Huang, Fu & Zhou, 2007, are referred to the genus *Yinia* and both, together with *Caryandoides maguas* Zheng & Xie, 2007, are proposed as new junior synonyms of *Yinia hunanica* Liu & Li, 1995.

Key words: *Oxyoides*, *Yinia*, *Caryandoides*, Oxyinae, Acrididae, Orthoptera, new synonym, China

Introduction

Oxyoides Zheng & Fu, 1994 is a genus endemic to China with three known species (Zheng & Fu, 1994; Fu, Peng & Zhu, 1995; Fu & Zheng, 1999; Li, Xia, *et al*, 2006; Huang, Fu & Zhou, 2007). However, some doubt had been thrown on the relationship among the members of the genus when it was reviewed for the first time and the third species was described (Huang, Fu & Zhou, 2007). When the type specimens of *Oxyoides bamianshanensis* Fu & Zheng, 1999 and *Oxyoides wulingshanensis* Zheng & Fu, 1994 were reexamined, we found that *Oxyoides bamianshanensis*, together with *Oxyoides longianchorus* Huang, Fu & Zhou, 2007, showed substantial morphological differences from *Oxyoides wulingshanensis*, the type species of the genus *Oxyoides*. It seemed that *Oxyoides bamianshanensis* and *Oxyoides longianchorus* did not belong to the genus *Oxyoides*. To ascertain which genus *Oxyoides bamianshanensis* and *Oxyoides longianchorus* should be correctly assigned to, they were compared with members of other genera in the subfamily Oxyinae (Hollis, 1971, 1975; Liu & Li, 1995). Finally, we found that *Yinia hunanica* Liu & Li, 1995, the single member of the genus *Yinia* Liu & Li, 1995, showed most similarity to them. *Yinia* is also a genus endemic to China, but it has nearly been forgotten by the Chinese Orthopterists since its publication and was not included in the monograph “*Fauna Sinica, Insecta, vol. 43, Orthoptera, Acridoidea, Catantopidae*” by Li, Xia, *et al* (2006). *Caryandoides* Zheng & Xie, 2007 was established to contain the type species *Caryandoides maguas* Zheng & Xie, 2007, a species described based on a single female specimen from Mangshan Nature Reserve, Yizhang County, Hunan Province, China, which is also the type locality of *Yinia hunanica*. Since both *Caryandoides maguas* and *Yinia hunanica* were originally found in the same locality and show similarity to *Caryanda* members (Liu & Li, 1995; Zheng & Xie, 2007), we suspected that they might be at least close relatives according to their morphological descriptions and illustrations. When the type specimens of *Caryandoides maguas* and *Yinia hunanica* were compared with each other, they were proved to be the same taxon. In this paper, we refer