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Remarks on the genus *Sinochlora* Tinkham (Orthoptera: Tettigoniidae, Phaneropterinae)

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Abstract

Three new species are described, namely *Sinochlora apicalis* **sp. nov.**, *S. longipenis* **sp. nov.** and *S. cucullata* **sp. nov.** A key to all known species of *Sinochlora* is presented and characters are illustrated, distribution maps of all *Sinochlora* species are provided. All specimens examined in this study are deposited in the Museum of Hebei University.

Key words: Tettigoniidae, Phaneropterinae, *Sinochlora*, China

Introduction

The genus *Sinochlora* was erected by Tinkham (1945), type species is *S. kwangtungensis* Tinkham, which was synonymised with *S. longifissa* (Matsumura & Shiraki, 1908) by Liu & Jin, 1999. Subsequently, some new members were added to the genus (Shi & Chang, 2004; Liu & Kang, 2007; Liu, 2011), the genus *Sinochlora* includes 14 species, 13 of which are distributed in China, the other one is recorded only occurring in Northern Vietnam.

Liu & Kang (2007) reviewed the genus *Sinochlora* and described 6 new species. We examined the type specimens of *S. trispinosa* Shi & Chang and compared with the illustrations of *S. retrolateralis* Liu & Kang. We conclude that the diagnostic features of the two species are not different; *S. retrolateralis* is a synonym of *S. trispinosa* Shi & Chang. Meanwhile, Liu & Kang (2007) presented a redescription of *S. trispinosa* Shi & Chang, 2004, but it was different from *S. trispinosa* Shi & Chang. This may be another species of *Sinochlora*. So far, the genus has 13 valid species.

In present study, we describe 3 new species from China, and provide a key to all known species and distribution maps.

Genus *Sinochlora* Tinkham, 1945

Type species: *Sinochlora kwangtungensis* Tinkham 1945.

Sinochlora Tinkham 1945, *Trans. Amer. Entomol. Soc.*, 70: 235; Shi & Chang 2004, *Oriental Insects*, 38: 335; Liu & Kang 2007, *J. Nat. Hist.*, 41 (21): 1316; Liu 2011, *Zootaxa*, 2931: 48.

Generic diagnosis. Large size. Femoral spines black, costal vein of tegmen white, anterior edge black. Male left tegmen with stridulatory file strongly swollen, right tegmen with a small transparent area, stridulatory teeth on underside of left tegmen regularly arranged, sometimes slightly varied at both basal and apical areas; tenth abdominal tergum elongated, with a central process, or with together a central and a pair of forcipate lateral processes, or with a pair of forcipate lateral processes only; cerci long, conical, upcurved generally; epiproct greatly developed, frequently with apical spine(s) or processes; subgenital plate broad and split deeply; styli short. Ovipositor equally broad throughout, curved upwards, dorsal valvula with apex truncated and serrated, ventral valvula with apex spiniferous; female subgenital plate with apex notched.