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Notes on the genus *Conanalus* Tinkham, 1943 (Orthoptera: Tettigoniidae: Conocephalinae) with one new species from Yunnan, China

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Abstract

The paper describes one new species, i.e. *Conanalus bilobus* sp. nov., and provides additional information on *Conanalus brevicaudus* Shi, Mao & Ou, 2008 (including female description for the first time), and *Conanalus robustus* Shi, Mao & Ou, 2008 from Yunnan, as well as illustrations of important morphological characters of *Conanalus aximus* Shi, Wang & Fu, 2005. A distribution map of the species of *Conanalus* from Yunnan, China is presented. The type material is deposited in the Museum of Hebei University.

Key words: Orthoptera, Conocephalinae, *Conanalus*, new species, Yunnan, China

Introduction

Tinkham (1943) proposed the subgenus *Conanalus* of the genus *Conocephalus*, designating the type species *Conocephalus (Conanalus) pieli* Tinkham, 1943. Xia & Liu (1992) raised the subgenus to generic status and described an additional new species, *Conanalus plicipennis* Xia & Liu, 1992 (distributed in Vietnam), but Liu & Jin (1994), Jin & Xia (1994) and Otte (1997) treated it as a subgenus of the genus *Conocephalus*. Shi *et al.* (2005) reviewed the generic diagnosis and described two new species (distributed in Hunan, China). Shi *et al.* (2008) revised the generic characters, and reported two new species (distributed in Yunnan, China). So far the genus *Conanalus* includes 6 species in the world (Eades *et al.*, 2015), 5 species of which are distributed in China, among which 2 species are found in Yunnan, *Conanalus brevicaudus* Shi, Mao & Ou, 2008 and *Conanalus robustus* Shi, Mao & Ou, 2008. The paper describes one new species, and provides the photos of taxonomic characters and the distribution map of the species of the genus *Conanalus* in Yunnan, China. The type material is deposited in the Museum of Hebei University.

Morphological images were acquired using Leica M205 A digital imaging system.

The following conventions were adopted for the specimen measurements:

Body—the distance from apex of fastigium of vertex to posterior margin of tenth abdominal tergite; pronotum—the distance from anterior margin to posterior margin; tegmen—the distance from base of tegmen to the apex; postfemur—the distance from base of postfemur to apex of genicular lobe; ovipositor—the distance from base of subgenital plate to apex of ovipositor.

Conanalus bilobus Du, Song, Shi sp. nov.

<http://lsid.speciesfile.org/urn:lsid:Orthoptera.speciesfile.org:TaxonName:470254>

Figure 1, Map 1

Description. Male. Body small. Fastigium of vertex narrower than scape, apex obtuse, dorsal surface with a longitudinal furrow. Eyes comparatively bigger, subglobular. Pronotum subsellate, anterior margin slightly protruding, posterior margin obtusely rounded, metazona raised upwards, lateral lobes of pronotum triangular, with