



New species of *Heteropsilopus* and *Amblypsilopus* from China (Diptera: Dolichopodidae)

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Abstract

Heteropsilopus, previously believed to be restricted to southern Australia, south-western India and Sri Lanka, is reported from China for the first time. Two species, *Heteropsilopus yunnanensis* **sp. nov.** and *Amblypsilopus curvus* **sp. nov.**, are described as new to science. The latter belongs to the *Amblypsilopus flaviappendiculatus* group.

Key words: Diptera, Dolichopodidae, *Heteropsilopus*, *Amblypsilopus*, new species, China

Introduction

The genera *Heteropsilopus* Bigot, 1859 and *Amblypsilopus* Bigot, 1888 belong to the subfamily Sciapodinae (Diptera: Dolichopodidae). *Heteropsilopus* is presently thought to be restricted to temperate eastern and southern Australia, south-western India and Sri Lanka with 30 known species (Bickel 1994; Yang *et al.* 2006). Bickel (1994) divided the genus into three species groups, the *triligatus* group of southern India and Sri Lanka, and the *cingulipes* and *brevicornis* groups of southern Australia and Tasmania. He also revised the Australian species and provided a key to the species of the *triligatus* group. The major references dealing with the species of *Heteropsilopus* are Becker (1922), Parent (1932, 1937, 1941), Bickel (1994), and Yang *et al.* (2006).

Amblypsilopus flaviappendiculatus group in the genus *Amblypsilopus* is characterized by the following features: both sexes with strong vt; first flagellomere subrectangular; arista dorsal and about as long as head width; lateral sc weak setula-like, or absent; male TI usually with long pale crocheted posterior setulae, confined either to distal half or entire tibia; male hind tarsomeres 3–4 or hind tarsomeres 3–5 dorsoventrally flattened and pad-like (Bickel 1994; Yang *et al.* 2011). This group is distributed in Asia and Australia with nine known species, of which four species are known from China (Bickel 1994; Bickel & Wei 1996; Yang *et al.* 2006; Yang *et al.* 2011).

In their book on Dolichopodidae from China, Yang *et al.* (2011) included eight genera and 132 known species of the subfamily Sciapodinae. In the present paper, one genus, *Heteropsilopus*, and two new species, *Heteropsilopus yunnanensis* **sp. nov.** and *Amblypsilopus curvus* **sp. nov.**, are added to the fauna of China, supplementing Yang *et al.* (2011). *Amblypsilopus curvus* **sp. nov.** belongs to the *Amblypsilopus flaviappendiculatus* group.

Material and methods

The type specimens are deposited in the Entomological Museum of China Agricultural University, Beijing (CAU). The following abbreviations are used: acr = acrostichal seta(e), ad = anterodorsal seta(e), av = anteroventral seta(e), dc = dorsocentral seta(e), ih = presutural intraalar seta(e), LI = fore leg, LII = mid leg, LIII = hind leg, npl = notopleural seta(e), oc = ocellar seta(e), pd = posterodorsal seta(e), ph = presutural supraalar seta(e), psa = postalar seta(e), pv = posteroventral seta(e), pvt = postvertical seta(e), sa = supraalar seta(e), sc = scutellar seta(e), v = ventral seta(e), vt = vertical seta(e).