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 = posetroventral seta(e), pvt = postvertical seta(e), sa = supraalar seta(e), sc = scutellar seta(e), v = ventral seta(e), vt = vertical seta(e).