

Article



Two new species of the subgenus *Planempis*, with a key to the species of China (Diptera: Empidoidea: Empididae)

JINJING WANG¹, ZHU LI² & DING YANG^{1,3}

¹ Department of Entomology, China Agricultural University, Beijing 100193, China. E-mails: gs00811@gmail.com (JJW); dyangcau@126.com; dyangcau@yahoo.com.cn (DY)

Abstract

Two species, Empis (Planempis) prolongata sp. nov. (Hubei, China) and E. (P.) shennongana sp. nov. (Hubei, China), are described as new to science. These two new species, which are similar to E. (P.) dahuriensis Shamshev, are characterized by veins M_1 and M_2 incomplete and not reaching the wing margin. A key to the known species of the subgenus Planempis from China is presented.

Key words: Diptera, Empididae, Planempis, new species, China

Introduction

Planempis Frey, 1953 is a small subgenus of the genus *Empis* L. with 35 known species, which are distributed in the Palaearctic and Oriental regions (Yang *et al.* 2007). The genus is characterized by the male cercus much enlarged with a flattened dorsal surface and bifurcated into long dorsal and short ventral arms extending beyond the epandrium (Saigusa 1992; Shamshev 2002). Shamshev (2002) described or redescribed six species and proposed a key to all known species except *E. frauscheri* Strobl. The major references dealing with species of *Planempis* are Collin (1941), Frey (1953, 1955), Saigusa (1964, 1992), Daugeron & Chvála (2002), and Shamshev (2002). The following four species of *Planempis* are currently known to occur in China: *Empis* (*Planempis*) *freyi* Yang, Zhang *et* Zhang, 2007 (new name for *Empis* (*Leptempis*) *quinquelineata* Frey, 1953); *E.* (*P.*) *hyalogyne* Bezzi, 1912; *E.* (*P.*) *ingrata* Frey, 1953; *E.* (*P.*) *mandarina* Frey, 1953.

In the present paper, two new species are added to the fauna of China. These two new species like E. (P.) dahuriensis Shamshev are characterized by veins M_1 and M_2 incomplete and not reaching the wing margin, but they are easily distinguished from each other by characters presented in the key. A key to the known species of the subgenus *Planempis* from China is presented.

Material and methods

The type specimens are deposited in the Entomological Museum of China Agricultural University, Beijing. The following abbreviations are used: acr = acrostichal, ad = anterodorsal, av = anteroventral, d = dorsal, dc = dorsocentral, h = humeral, npl = notopleural, oc = ocellar, pd = posterodorsal, presc = prescutellar, psa = postalar, pv = posteroventral, sa = supraalar, sc = scutellar.

² Beijing Museum of Natural History, Beijing 100050, China. E-mail: bamboo_l@163.com

³ Correspondence author