



Species of the genus *Metalimnobia* Matsumura from China (Diptera, Limoniidae)

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Abstract

An overview is presented of the Chinese species of *Metalimnobia*, subgenus *Metalimnobia* Matsumura, 1911. The following two species are described as new to science: *M. rectangularis* **sp. nov.**, *M. impubis* **sp. nov.** Three species, *M. bifasciata* (Schrank), *M. quadrimaculata* (Linnaeus) and *M. tenua* Savchenko, are recorded from China for the first time. A key is presented for all nine species of *Metalimnobia* (*Metalimnobia*) presently known from China.

Key words. Diptera, Limoniidae, *Metalimnobia*, new species, China

Introduction

The genus *Metalimnobia* is represented in the Holarctic and Oriental regions by the nominotypical subgenus only, with 31 known species, of which 11 species are from the East Palaearctic Region, 6 from the West Palaearctic, 10 from the Oriental, 12 from the Nearctic (Oosterbroek, 2009). The following four species were known to occur in China: *M. improvisa* (Alexander, 1933), *M. quadrinotata* (Meigen, 1818), *M. xanthopteroides xanthopteroides* (Riedel, 1917), *M. yunnanica* (Edwards, 1928). The subgenus is characterized by the following characters: body size large, wing length more than 10 mm; antenna with 12 flagellomeres; palpus with four segments (in contrast to most of the genera with five-segmented palpus); wing mostly patterned with dark brown spots; terminal section of R_1 more or less transverse, as long as or slightly longer than R_2 (as in e.g. *Achyrolimonia* Alexander, 1965); male gonocoxite with broad ventromesal lobe; inner gonostylus mostly divided into three lobes (Dienske, 1987; Podenas and Gelhaus, 2007; Salmela and Sary, 2009). In the present paper, seven species including two new species and three new record species from China are described. There are no descriptions given for the species *M. improvisa* (Alexander, 1933) and *M. xanthopteroides xanthopteroides* (Riedel, 1917), because during this study no material of these species was examined. However, on the basis of their descriptions and other available information, they are both included in the presented key to all species of *Metalimnobia* known from China.

Material and methods

The specimens were studied and illustrated with ZEISS Stemi 2000-c. Genitalic preparations were made by macerating the apical portion of the abdomen in cold 10% NaOH for 12–15 h. After examination it was transferred to fresh glycerine and stored in a microvial pinned below the specimen. The type specimens of the new species are deposited in the Entomological Museum of China Agricultural University (CAU), Beijing.

Terminology of morphological features generally follows that of McAlpine (1981) except wing veins following Dienske (1987).