



A new species of the genus *Mesonemoura* (Plecoptera: Nemouridae) and a key to the males of species known from China

WEIHAI LI¹ & DING YANG^{2,3}

¹Department of Plant Protection, Henan Institute of Science and Technology, Xinxiang, Henan 453003, China.

E-mail: lwh7969@163.com

²Department of Entomology, China Agricultural University, 2 Yuanmingyuan West Road, Beijing 100193, China.

E-mail: dyangcau@yahoo.com.cn

³Corresponding author

Abstract

A new species of the genus *Mesonemoura*, *M. yulongana* Li & Yang, **sp. nov.**, is described from Yunnan Province, China. Its relationship with related species is discussed. A key to males of the 12 known species from China is provided.

Key words: Plecoptera, Nemouridae, *Mesonemoura*, new species, China

Introduction

The genus *Mesonemoura* Baumann, 1975 belongs to the subfamily Amphinemurinae and is comprised of 22 known species from the Oriental and Palaearctic regions (Aubert 1959, 1967; DeWalt *et al.* 2009; Du *et al.* 2007; Fochetti and Sezzi 2000; Harper 1974; Kimmins 1947, 1950; Li and Yang 2007; Navás 1922; Okamoto 1922; Shimizu 1994 a & b; Shimizu and Sivec 2001; Wu 1938, 1962, 1973; Zhiltzova 2003; Zhu *et al.* 2003; Zwick and Sivec 1980). The following eleven species are presently known from China: *Mesonemoura aberransterga* Du and Zhou, 2007, *M. flagellata* (Wu, 1935), *M. lii* Zhu and Yang, 2003, *M. membranosa* Du and Zhou, 2007, *M. multispira* (Wu, 1973), *M. nielamuensis* Li and Yang, 2007, *M. sbordonii* Fochetti and Sezzi, 2000, *M. spiroflagellata* (Wu, 1973), *M. tibetensis* Zhu and Yang, 2003, *M. tritaenia* Li and Yang, 2007 and *M. vaillanti* (Navás, 1922). In the present paper, we describe a new species from China based on a small collection from a recent collecting trip and present an updated key to the species of *Mesonemoura* from China. The type material is deposited in the Insect Collection of the Henan Institute of Science and Technology (HIST) Xinxiang and the Entomological Museum of China Agricultural University (CAU), Beijing. All specimens are preserved in 75% alcohol. The morphological terminology follows that of Baumann (1975).

Taxonomy

An updated key to males of species of *Mesonemoura* known from China

1. Tergum nine not produced at posterior margin (Fig. 15 in Aubert 1959; Fig. 1 in Du *et al.* 2007; Fig. a in Fochetti and Sezzi 2000; Fig. 11 in Li & Yang 2007) 2
- Tergum nine produced at posterior margin (Figs. 9 in Du *et al.* 2007; Figs. 1, 6 & 16 in Li & Yang 2007; Fig. 8; Fig. 35 in Wu 1935; Figs. 1 & 6 in Zhu *et al.* 2003) 5
2. Flagellum with acute apex 3
- Flagellum with bifurcate apex (Fig. a & d in Fochetti and Sezzi 2000).....*M. sbordonii*