



Two new species of the genus *Mesonemoura* and redescription of *M. spiroflagellate* (Plecoptera: Nemouridae) from China

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Abstract

Two *Mesonemoura* species from China are described, *Mesonemoura aberransterga* Du & Zhou, sp. nov., *M. membranosa* Du & Zhou, sp. nov., and *M. spiroflagellata* Wu is redescribed in this paper. The types of the new species and the redescribed species are deposited in the Insect Collection of Yangzhou University.

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

Introduction

Baumann (1975) proposed the genus *Mesonemoura* and designated *Nemoura vaillanti* Navás, collected from Nan Shan, China, as its type species. He also transferred 15 additional species from *Nemoura*, *Protonemoura* and *Amphinemura* into this genus. Five of these species occur in China. Zwick and Sivec (1980) later transferred *Protonemoura funicula* and *P. mastigophora*, described by Harper (1975), to *Mesonemoura*. After that, *M. longicercia* (Okamoto 1922) was transferred to *Indonemoura* by Shimizu (1994a, 1994b). Shimizu and Sivec (2001) erected the new genus *Sphaeronemoura* which included *M. hamistyla* (Wu 1962) and *M. paraproctalis* (Aubert 1967) placed in *Mesonemoura* by Baumann (1975). Three additional species were described by Fochetti & Sezzi (2000) and Zhu et al. (2003). Currently, the genus *Mesonemoura* includes 18 species residing only in the Oriental and Palaearctic regions, and 7 species of them are distributed in China. They are *M. vaillanti* (Navás 1922), *M. flagellata* (Wu 1935), *M. multispira* (Wu 1973), *M. spiroflagellata* (Wu 1973), *M. sbordonii* Fochetti & Sezzi (2000), *M. lii* Zhu & Yang (2003) and *M. tibetensis* Zhu & Yang (2003). The authors redescribe *Mesonemoura spiroflagellata* (Wu 1973) and describe two new *Mesonemoura* species from China, the types of all three species reside in the Insect Collection of Yangzhou University.

Mesonemoura aberransterga Du & Zhou, sp. nov.

(Fig. 1–8)

Adult habitus. Head and pronotum dark brown and equal in width to pronotum; wings subhyaline, brown, veins dark brown. Cervical gills single, short and oval, each one is located outside of lateral cervical sclerite.