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Species of *Neoperla* (Plecoptera: Perlidae) from Yunnan Province, China

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Abstract

Two new species of the genus *Neoperla* are described from Yunnan Province, China: *Neoperla lihuae* Li & Murányi, sp. nov. and *Neoperla yanlii* Li & Wang, sp. nov. They are compared with related congeners. Brief comments on the taxonomy of *N. cavaleriei* (Navás, 1922), *N. limbatella* Navás, 1933, *N. obscurolulva* Wu, 1962 and *N. lui* Du, 2004 are also presented.

Key words: Plecoptera, Perlidae, *Neoperla*, new species, China

Introduction

There are seventy-three known *Neoperla* species from China described by Chu (1929), Du (1999, 2000a, 2000b), Du and Sivec (2004, 2005), Du and Wang (2005, 2007), Du *et al.* (1999), Du *et al.* (2001), Li *et al.* (2011), Li *et al.* (2011), Li and Wang (2011), Li *et al.* (2012), Li *et al.* (2012), Li and Li (2013 a & b), Li *et al.* (2013), Li *et al.* (2013), Qin *et al.* (2013), Sivec and Zwick (1987), Wu (1935, 1938, 1948, 1962, 1973), Wang *et al.* (2013), Wu and Claassen (1934), Yang and Yang (1990, 1991) and Yang and Yang (1992, 1993, 1995a, 1995b, 1996, 1998). In this paper, we describe two additional new species of *Neoperla* from Yunnan Province. Yunnan is the most southwestern province in China, encompassing an area of 394,100 km². To the north, the province forms part of the Yunnan–Guizhou Plateau. The province borders Guangxi and Guizhou to the east, Sichuan to the north, and the Tibet Autonomous Region in the northwest. The province also borders Myanmar, Laos, and Vietnam. Taxonomic notes for *N. cavaleriei* (Navás, 1922), *N. limbatella* Navás, 1933, *N. obscurolulva* Wu, 1962 and *N. lui* Du, 2004 (in Du & Sivec 2004) are presented.

Material and methods

Specimens used in this study were collected using light traps. Types of the new species and other examined material are preserved in 75% ethanol. Studied specimens are deposited in the Insect Collection of Henan Institute of Science and Technology (HIST), Xinxiang, the Entomological Museum of China Agricultural University (CAU), Beijing, and in the Collection of Smaller Insect Orders, Department of Zoology, Hungarian Natural History Museum (HNHM), respectively, as indicated in the text. Aedeagi were everted using the cold maceration technique of Zwick (1983).

Remarks. See under *Neoperla cavaleriei* (Navás) above. Additional material is needed to clarify the identification of this species.

Distribution. China (Guangxi, Yunnan).

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