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Two new species of dark *Neoperla* (Plecoptera: Perlidae) from Oriental Realm of China

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Abstract

Two new species of the perlid genus *Neoperla*, *N. tadpolata* Li & Murányi, **sp. nov.** and *N. yunnana* Li & Wang, **sp. nov.** are proposed from Guangxi Zhuang Autonomous Region and Yunnan Province of China, respectively. They are both typical members of the *N. montivaga* species group and the taxonomic relationships are discussed with related congeners of the group.

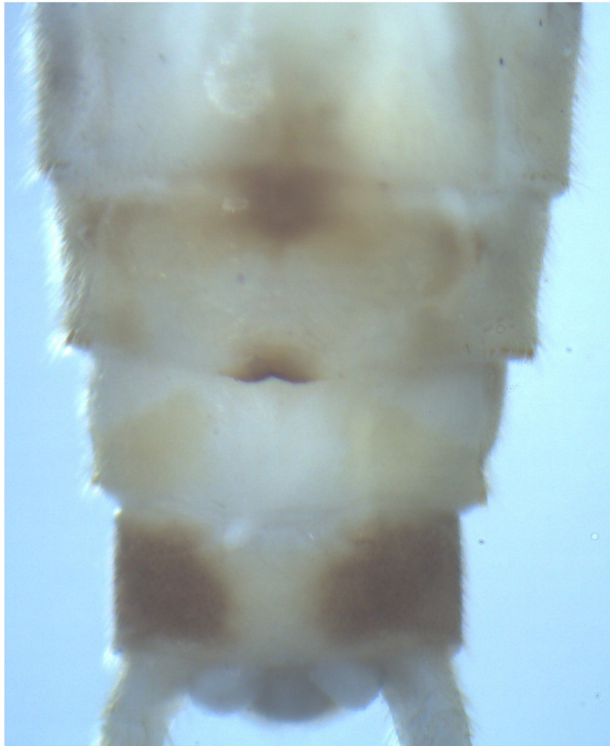
Key words: Plecoptera, Perlidae, *Neoperla*, new species, China

Introduction

Neoperla is a common perlid genus attracted to light traps in summer. Adult body color typical of the genus is yellowish to brown as those previously described by Chu (1929), Wu (1935, 1938, 1948, 1962, 1973) and Wu and Claassen (1934) from China. Relatively few species that are darkly pigmented have been described from China by Du (1999, 2000a, 2000b), Du and Sivec (2004, 2005), Du and Wang (2005, 2007), Du *et al.* (1999), Du *et al.* (2001), Kong *et al.* (2014), Li and Li (2013 a, b), Li and Wang (2011), Li and Zhang (2014), Li *et al.* (2011), Li *et al.* (2011), Li *et al.* (2012), Li *et al.* (2012), Li *et al.* (2013), Li *et al.* (2013), Li *et al.* (2014), Li *et al.* (2014), Qin *et al.* (2013), Sivec and Zwick (1987), Wang *et al.* (2013), Wang *et al.* (2013), Yang and Yang (1990, 1991) and Yang and Yang (1992, 1993, 1995a, 1995b, 1996, 1998). In the present paper, two new species with dark brown body color are proposed from Oriental Realm of China, *N. tadpolata* Li & Murányi, **sp. nov.**, and *N. yunnana* Li & Wang, **sp. nov.**

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. Holotypes and paratypes are deposited in the Insect Collection of Henan Institute of Science and Technology (HIST), Xinxiang, and the Entomological Museum of China Agricultural University (CAUC), Beijing, and the Collection of Smaller Insect Orders, Department of Zoology, Hungarian Natural History Museum (HNHM), Budapest, respectively, as indicated in the text. Aedeagi were everted using the cold maceration technique of Zwick (1983) and the terminology is after that of Sivec *et al.* (1988).



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FIGURES 18–19. Female terminalia. 18. *Neoperla tadpolata* Li & Murányi, **sp. nov.**, ventral view. 19. *Neoperla yunnana* Li & Wang, **sp. nov.**, ventral view.

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