



Article

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Review of *Neoperla* (Plecoptera: Perlidae) from Guangdong Province of China

WEIHAI LI^{1*}, GUOQUAN WANG² WENLIANG LI³, & DÁVID MURÁNYI⁴

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

²Department of Plant Protection, Guangxi University, Nanning, Guangxi 530004, China. E-mail: wgq1230@yahoo.com.cn

³College of Forestry, Henan University of Science and Technology, Luoyang, Henan 471003, China. E-mail: wenliangly@yahoo.cn

⁴Department of Zoology, Hungarian Natural History Museum, Baross u. 13, H-1088 Budapest, Hungary.

E-mail: muranyi@zool.nhmus.hu

*Corresponding author. E-mail: lwh7969@163.com

Abstract

Four species of the genus *Neoperla* known from Guangdong Province, China are reviewed. Two species are described as new: *Neoperla flagellata* sp. nov., and *N. similiserecta* sp. nov., and *N. mnong* Stark is recorded from the Province for the first time. Illustrations and color photographs are provided for each species, and the new species are compared to similar taxa.

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

Introduction

Neoperla is the most speciose genus within the stonefly family Perlidae in China (DeWalt et al. 2012; Sivec et al. 1988), and Du et al. (1999) provided a list of 46 species described by Chu (1929), Wu (1935, 1938, 1948, 1962, 1973), and Wu & Claassen (1934). Since then, 22 species have been proposed by Du (1999, 2000 a & b), Du & Sivec (2004, 2005), Du & Wang (2005, 2007), Du et al. (1999), Du et al. (2001), Sivec & Zwick (1987), Yang & Yang (1990, 1991), Yang & Yang (1993 a & b, 1995 a & b, 1996, 1998), Li et al. (2011), Li et al. (2011), Li & Wang (2011) and Li et al. (2012). In the present paper, we present a review of the species of the genus *Neoperla* from Guangdong Province, China located on the South China seacoast. This province borders Fujian Province to the northeast, Jiangxi and Hunan provinces to the north, Guangxi autonomous region to the west, and Hong Kong and Macau administrative regions to the south. Two species are described as new: *Neoperla flagellata* sp. nov., and *N. similiserecta* sp. nov., and *N. mnong* Stark is recorded from Guangdong Province for the first time. All specimens are deposited in the Entomological Museum of China Agricultural University (CAU). Aedeagi were everted using the cold maceration technique of Zwick (1983).

Taxonomy

Neoperla flagellata Li & Murányi, sp. nov.

(Figs. 1–9)

Male. Forewing length 14.5–14.9 mm, hindwing length 13.5–13.8 mm. General body color brownish. Distance between ocelli slightly wider than diameter of the ocellus. Head slightly wider than pronotum, lateral margins pale, medial portion brownish except a dark brown rectangular ocellar patch and a subtriangular patch on frons (Fig. 1); compound eyes dark; antennae brown. Pronotum brownish, lateral margins pale (Fig. 1); wing membrane subhyaline, veins brown; legs yellowish brown with knees darker. Abdomen brownish, hemiterga darker.