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A new species of *Togoperla* (Plecoptera: Perlidae) from China with a revised key to *Togoperla* males

WEIHAI LI^{1,3} & R. EDWARD DEWALT²

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

²Illinois Natural History Survey, 1909 S Oak St, Champaign IL 61820

³Corresponding author.

E-mail: lwh7969@163.com

Abstract

A spring-emerging species of the genus *Togoperla* is described for Zhejiang and Guangxi provinces of China, *T. condyla* sp. nov. A revised key is given to the species of *Togoperla*.

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

Introduction

The *Togoperla* is a relatively well-known genus in the family Perlidae including 12 recognized species (Stark and Sivec 2008, Cao & Bae 2010). However, Uchida (1990) proposed an additional species from Japan in an unpublished PhD dissertation. DeWalt et al. (2012) listed this taxon as a nomen nudum. Additionally, this species may be a synonym (B. P. Stark, personal communication). The genus is most diverse in China (Table 1) with seven species recorded (DeWalt et al. 2012, Du & Chou 1999; Du et al. 1999; Sivec et al. 1988; Wu 1935, 1938; Wu & Claassen 1934). In recent surveys of the early spring stonefly fauna in Zhejiang and Guangxi provinces, we discovered a previously unrecognized species of *Togoperla*. Since Stark and Sivec (2008) have provided an excellent review on the genus, we focus our study on the description of this new species. All specimens are deposited in the Insect Collection of Henan Institute of Science and Technology (HIST), China.

Taxonomy

Togoperla condyla Li & DeWalt, sp. nov.

(Figs. 1–10)

Diagnosis. Males of this species are distinguished by a dark brown pronotum, a pale area around the compound eyes that extends anterolaterally, and by legs with yellow and black or brown bands. Additionally, the apical half of the aedeagal sac is greatly enlarged and the armature on the dorsal surface of basal tube covers most of the swollen apex.

Male. Forewing length 20.2–20.8 mm, hindwing length 18.0–18.4 mm. General color brown to dark brown in dorsal view, yellow to brown in ventral surface. Head mostly dark brown except pale area around compound eyes and anterolateral margins of the head. Compound eyes dark; antennae brown but scape darker. Pronotum dark brown with vague rugosities, posterior corners rounded (Figs. 1–2); wings brown, costal area pale yellow, veins brown; legs banded with dark brown at the base and apex of both femora and tibiae, a wide, yellow band separating dark bands (Fig. 3). Abdomen brownish.