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## ***Haploperla choui* sp. n. (Plecoptera: Chloroperlidae), a remarkable new stonefly from Qinling Mountains of China**

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### **Abstract**

A new chloroperline stonefly species, *Haploperla choui* from the Qinling Mountains, Shaanxi Province, China is described. It is compared to other species of the genus known from Asia.

**Key words:** Plecoptera, Chloroperlidae, *Haploperla choui*, new species, China

### **Introduction**

Ten species of the family Chloroperlidae are presently known from China (Wu 1938, Illies 1966, Zwick 1973, Du and Sivec 2005, Nelson and Hanson 1968, Stark & Sivec 2009, Tierno, de Figueroa & Fochetti 2002, Zhiltzova & Zwick 1971, Zhu et al. 2007, Li & Wang 2011) in the genera *Haploperla* Navás, 1934, *Sweltsa* Ricker, 1943 and *Alloperla* Banks, 1906. *Haploperla* is a small genus including 13 recognized species worldwide (DeWalt et al. 2012), of which three have been recorded from China, *H. lepnevae* Zhiltzova & Zwick, 1971; *H. ussurica* Navás, 1934; and *H. valentinae* Stark & Sivec, 2009 ( Zhiltzova & Zwick 1971, Zhu et al. 2007, Stark & Sivec 2009).

We collected recently several specimens of a remarkable *Haploperla* during a short trip to the Qinling Mountains in Shaanxi Province, China during July 2012. These mountains are a major east-west range in the southern part of the province and are known for their unique floral and faunal communities. The types are deposited in the Insect Collection of Henan Institute of Science and Technology, Xinxiang (HIST) and the Entomological Museum of China Agricultural University, Beijing (CAU), respectively.

### **Taxonomy**

#### ***Haploperla choui* Li & Yao, sp. nov.**

(Figs. 1–11)

**Adult habitus.** Triocellate. General color dark brown patterned with pale brown. Head mostly dark with pale narrow lateral margins; compound eyes and ocelli black. Pronotum disc dark, wings pale, legs coxae and tibiae pale, femurs brownish and tarsi brown. The abdominal tergum 1 brown, terga 2–7 each with a quadrate medial marking forming a continuous longitudinal stripe (Figs. 1–2). Cerci 11 segmented, black except 1<sup>st</sup> segment brownish to brown.

**Male** (Figs. 1, 3, 5–10). Forewing length ca. 5.4 mm. Antennae brown except basal segments pale to light brown. Abdominal tergum 8 with pigmentation reduced to an anterior bar, tergum 9 mostly brown, a short, broad, brown posterior lobe extended apically, covered with long spines, a pale brown band present anterior to the lobe covered with shorter conical spines (Figs. 5, 7); epiproct dark brown.