



## A new species of *Isopsestis* (Lepidoptera: Thyatiridae) from Yunnan, China

HAILING ZHUANG<sup>1</sup>, MAMORU OWADA<sup>2</sup> & MIN WANG<sup>1,3</sup>

<sup>1</sup>Department of Entomology, College of Natural Resources and Environment, South China Agricultural University, Guangzhou, China

<sup>2</sup>Department of Zoology, National Museum of Nature and Science, Amakubo 4-1-1, Tsukuba, 305-0005 Japan

<sup>3</sup>Corresponding author. E-mail: [minwang@scau.edu.cn](mailto:minwang@scau.edu.cn)

**Abstract.** A new species of genus *Isopsestis* Werny, 1968 (Lepidoptera: Thyatiridae), *Isopsestis poculiformis* sp. nov., is described from the locality 2660m elevation in Northeast Yunnan, China, and compared with its closest ally. Male adult and genitalia of the new species are illustrated and a distribution map of the genus *Isopsestis* Werny, 1968 is provided.

**Key words:** Lepidoptera, Thyatiridae, new species, Yunnan, China

The genus *Isopsestis* Werny, 1968 is a small genus with four recognized species, *Isopsestis cuprina* Moore, 1881, *Isopsestis meyi* László, Ronkay, Ronkay & Witt, 2007, *Isopsestis naumanni* László, Ronkay, Ronkay & Witt, 2007, and *Isopsestis moorei* László, Ronkay, Ronkay & Witt, 2007. The lectotype of *Palimpsestis cuprina* Moore, 1881 was designated by László *et al.* (2007). All species of this genus appear to be rare in specimens and are mainly distributed in the central and southwestern China, North Vietnam, Nepal and India. Remarkable characteristics of this genus are medium-sized, forewings generally grayish pale or blackish gray, with clear or unclear crosslines, male genitalia sclerotized, uncus slender, broad at base, socii long, with serrate crest or becoming bold in middle, futura superior special, shield-shaped or bud-shaped (László *et al.* 2007).

The aim of this study is to describe a new species, *Isopsestis poculiformis* sp. nov., from Yunnan, China, and to provide distinction from its closest ally.

### Material and methods

The specimens were collected by 450 watt incandescent light bulb from the province of Yunnan, China. Male genitalia were cleared in 10% sodium hydroxide (NaOH) and mounted in glycerin (C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>). All specimens are deposited in the Department of Entomology, South China Agricultural University, Guangzhou, China. Adults were disposed and photographed by the methods of Zhuang *et al.* (2014). Terminology follows László *et al.* (2007).

### Taxonomy

#### Genus *Isopsestis* Werny, 1968

*Isopsestis* Werny, 1968, *Ergebnisse des Forschungsunternehmens Nepal Himalaya*, 3: 113. Type species: *Palimpsestis cuprina* Moore, 1881, by original designation.

#### Checklist of *Isopsestis* species

##### *Isopsestis cuprina* Moore

*Palimpsestis cuprina* Moore, 1881, *Proceedings of the Zoological Society of London*, 49(2): 331, pl. 37, fig. 3. Type locality: [India], Darjeeling.