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Review of the genus *Thliptoceras* Warren, 1890 (Lepidoptera: Crambidae: Pyraustinae) from the Oriental region of China

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Abstract

The species of the genus *Thliptoceras* Warren, 1890 from the Oriental region of China are reviewed, and a description of the genus is given. Five new species, *T. bicuspidatum* sp. nov., *T. semicirculare* sp. nov., *T. bisulcifforme* sp. nov., *T. filamentosum* sp. nov. and *T. impube* sp. nov. are described. *T. fulvimargo* (Warren, 1895) is newly recorded for China. A key to the species of the Oriental region of China is provided, along with diagnoses for previously described species. Illustrations of external features and genitalia are presented.

Key words: Lepidoptera, Crambidae, Pyraustinae, *Thliptoceras*, new species

Introduction

Warren (1890) described the genus *Thliptoceras* and the species *T. variabilis* in Swinhoe's paper and Swinhoe (1890) on the next page added two more species to the genus. Hampson (1896) designated *Hapalia cascalis* Swinhoe, 1890, which was not originally included in *Thliptoceras*, as the type species of the genus. At the same time, Hampson placed *T. variabilis*, a nominal species originally included in *Thliptoceras*, as a junior synonym of *T. cascalis*. In accordance with the Code, Fletcher and Nye (1984) proposed that *T. variabilis* should be regarded as the type species. Later, Hampson (1896, 1899, 1913, 1918), Mabille (1899), Aurivillius (1910), Schaus (1912), Strand (1918), de Joannis (1932), Munroe (1967), Munroe & Mutuura (1968), Bänziger (1987) and Guillermet (1996) described more species for *Thliptoceras*. In a review of the genus *Thliptoceras*, Munroe (1967) listed 12 species from northern China, Japan, India, Myanmar, Thailand, Indonesia (Sumatra, Java) and Borneo, established several generic and specific synonymies, and described male genital characters of the genus.

Thliptoceras is very a species-rich genus in the Oriental region with 26 out of a total of 35 named species (including the new species). The remaining species are distributed across the Ethiopian region (8 species), the Palaearctic region (2 species) and the Neotropical region (1 species).

Material and methods

The specimens studied, including the types, are all deposited at the Institute of Entomology, Sun Yat-sen University (IESYU), the Insect Collection of the College of Life Sciences, Nankai University (NKUM) and the Institute of Zoology, Chinese Academy of Sciences (IZCAS).

Slides of genitalic dissections and wings were prepared according to Robinson (1976) and Li & Zheng (1996), with some modifications. Genitalia terms used followed Marion (1952, 1961), Munroe (1976) and Maes (1995).

Material examined. Holotype: ♂, CHINA, Guangdong: Mt. Danxiashan (25°04'N, 113°64'E), Shaoguan County, alt. 408 m, 1.VI.2008, coll. Jia Fenglong, genitalia slide No. HFX08193; **Paratypes:** Guangdong: 50 ♂, 60 ♀, Mt. Danxiashan (25°04'N, 113°64'E), Shaoguan County, alt. 96 m, 408 m, 30.V.–8.VI.2008, 6–7.VI.2012, coll. Li Jinwei and He Fengxia et. al., genitalia slide No. HFX08191, HFX08192, HFX08195, HFX08196, ZDD10060, XJW12004, XJW12010, XJW12011, XJW12024, XJW12025, XJW12026, venation slide No. ZDD10083; 1 ♂, 3 ♀, Shimentai, Yingde county (24°10'N, 113°22'E), 27.V.2012, coll. Yang Lijun and Jia Qianju, genitalia slide No. XJW12001; 1 ♂, 4 ♀, Yanshuitian, Mt. Heishiding (23°27'N, 111°54'E), Fengkai, 15.VI.2009, 3.VI, 3.VII.2011, coll. He Fengxia and Tong Bo et. al., genitalia slide No. ZDD03320.

Distribution. China (Guangdong).

Etymology. The specific name is derived from the Latin *impubis* = hairless, referring to the uncus without setae.

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