



One new species and two new synonyms in the genus *Ethmia* (Lepidoptera: Elachistidae: Ethmiinae)

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Abstract

One new species of the genus *Ethmia* Hübner [1819], viz. *E. apispinata* **sp. nov.**, is described based on the specimens collected in Yunnan Province; two new synonyms are proposed: *Ethmia pseudozygospila* Kun & Szabóky, 2000, **syn. nov.** (= *E. guangzhouensis* Liu, 1980), and *Ethmia amissus* Kun, 2001, **syn. nov.** (= *E. pingxiangensis* Liu, 1980); the male of *E. pingxiangensis* is described for the first time. Images of adults and illustrations of genitalia are provided.

Key words: Lepidoptera, Elachistidae, Ethmiinae, synonym, new species

Introduction

Ethmia is the largest genus of the subfamily Ethmiinae, with 317 described species worldwide. Members of the genus can be easily identified by having a grey, black or white forewing with markings of dots, spots, stripes or various combinations.

Sattler (1967) included 72 species in his work on *Ethmia* of the Palaearctic Region, two of which were synonymized by Kun (2002b) and Clancy (2005). Subsequent works of many authors have increased the palaearctic and the oriental species number to 124 (Clarke 1965, Diakonoff 1966, 1967, Amsel 1969, Danilevsky 1975, Zagulajev 1975, Yang 1977, Kostyuk 1980, Liu 1980, Ganev 1984, Koçak 1986, Wang & Zheng 1997, Dubatolov & Ustjuzhanin 1998, Kun & Szabóky 2000, Karsholt & Kun 2003, Domingo, Huemer & Baixeras 2003, Wang & Li 2004, Clancy 2005, Pathania, 2006, Srjvastava, Kumar & Sharma 2006, Kun 2001, 2002, 2004, 2007, Shovkoon 2010). In China, *Ethmia* is represented by 55 species prior to this study, including 14 recorded in Taiwan (Yen *et al.* 2009). In this paper, we describe one new species *E. apispinata* **sp. nov.** from Yunnan, and synonymize *E. pseudozygospila* Kun, 2000, **syn. nov.** with *E. guangzhouensis* Liu, 1980, and *E. amissus* Kun, 2001, **syn. nov.** with *E. pingxiangensis* Liu, 1980.

Material examined in this study are deposited in the Insect Collection, Nankai University, Tianjin (NKU), the Institute of Zoology, Chinese Academy of Sciences (IZCAS), and the Smithsonian Institution, National Museum of Natural History, Washington, D.C. (NMNH).

Taxonomic accounts

Ethmia apispinata S. Wang, **sp. nov.**

(Figs. 1, 4, 7)

Type material. Holotype ♂, **China:** Xishuangbanna (21°55' N, 101°16' E), Yunnan Province, 531 m, 15.viii.2010, coll. Yinghui Sun and Lixia Li, genitalia slide No. WJJ10094 (NKU). Paratypes: 1 ♀, same data as holotype, genitalia slide No. WJJ10095 (NKU); 1 ♀, Jingdong County (24°26' N, 100°50' E), Yunnan Province, 18.viii.2009, coll. Xicui Du (NKU); 1 ♂, 1 ♀, Mengla County (21°56' N, 101°15' E), Yunnan Province, 630 m, 7.viii.2010, coll. Yinghui Sun and Lixia Li, genitalia slide Nos. WJJ10096 ♂, WJJ11011 ♀ (NKU).