



Two new species of *Enarmoniini* (Lepidoptera: Tortricidae) from eastern Thailand

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Abstract

Two new species of the tribe *Enarmoniini* (Tortricidae) are described from the Chanthaburi and Trat provinces of eastern Thailand: *Helictophanes flava* Muadsub and Pinkaew, **n. sp.**, and *Cyphophanes khitchakutensis* Muadsub and Pinkaew, **n. sp.** Illustrations of adults and genitalia are provided.

Key words: *Cyphophanes*, *Helictophanes*, *Enarmoniini*, Khao Khitchakut National Park, Olethreutinae, Trat Agroforestry Research and Training Station

Introduction

Although the tortricid fauna of Thailand remains poorly known, considerable progress has been made over the last decade (Pinkaew 2007, 2008, 2011, Pinkaew *et al.* 2005, Pinkaew & Zhang 2012, Jaikla *et al.* 2013). The two new species reported in this paper are the result of surveys of olethreutine moths in eastern Thailand during 2011–2012.

Materials and Methods

This study is based on specimens deposited in the Kasetsart Kamphaengsaen Insect Collection (KKIC). Specimens were examined and measured using an Olympus SZ40 stereomicroscope with an ocular micrometer. Forewing length was measured from the outer edge of the tegula at the wing base to the outermost edge of the fringe scales at the apex. Microtrichia, cornuti, and other characters of the genitalia were examined using a Leica DM750 compound microscope. Terminology for forewing pattern and genitalia follows Horak (1991, 2006). Methods of genitalia dissection were adapted from Common (1990). Adults were photographed with a Canon DSLR 5D mark II and 100 mm macro lens. Genitalia were photographed with a Leica DM750 compound microscope with an ICC50 HD camera module, and the photographs were refined using Helicon Focus 5.1 and Photoshop CS3. Holotypes of the two new species are deposited in the Natural History Museum, London (BMNH), and paratypes are deposited in Kasetsart Kamphaengsaen Insect Collection (KKIC) and the Thailand Natural History Museum (TNHM).

Results

Helictophanes Meyrick, 1881

Helictophanes Meyrick, 1881 was proposed with *H. uberana* Meyrick as the type species. As currently defined

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