

중국 밤나방과(나비목) *Mythimna*속 2 미기록종에 관한 보고

리성덕 · 한휘림*

동북림업대학교 립학원, 할빈 150040, 중국

Two *Mythimna* Species New to China (Lepidoptera: Noctuidae)

Li, Cheng-De and Hui-Lin Han*

Northeast Forestry University, School of Forestry, Harbin, 150040, China

ABSTRACT : Two noctuid pest species of the genus *Mythimna legraini* (Plante, 1992) and *M. laxa* Hreblay & Yoshimatsu, 1996 were reported for the first time from China, with illustrations of adults and their available genitalia.

KEY WORDS : Taxonomy, Hadeninae, *Mythimna*, New record, China

초 록 : 밤나방과에 *Mythimna legraini* (Plante, 1992)와 *M. laxa* Hreblay & Yoshimatsu, 1996 2종이 중국에서 처음으로 보고된다. 이 미기록 2종에 대해 성충의 외부 형태적 특징과 암수생식기를 간략한 기술과 함께 도해하였다.

검색어 : 분류, Hadeninae, *Mythimna*, 미기록종, 중국

Introduction

The cosmopolitan genus *Mythimna* Ochsenheimer, 1816 is monophyletic group of the subfamily Hadeninae. All species of the genus have been known as the major pest, feed on many plants such as rice, winter cereals, millet, maize, sugar cane, soybean, buckwheat, radish, Chinese cabbage, and sweet potato *et al.* (Yoshimatsu, 1994). One hundred twenty-nine species of the genus are distributed in China (Chang, 1991; Chen, 1999; Han *et al.*, 2007; Yoshimatsu, 1994). In this study, two species: *Mythimna legraini* (Plante, 1992) and *M. laxa* Hreblay & Yoshimatsu, 1996 are reported for the first time from

China. The genitalia and distributional data of the two species are also provided.

The specimens treated in this paper are preserved in collection of the Entomological Laboratory, School of Forestry, Northeast Forestry University (NEFU), Harbin, China.

Systematic Accounts

Mythimna legraini (Plante, 1992)

Aletia legraini Plante, 1992, Tyô to Ga 43(3): 218.

*Corresponding author. E-mail: hanhuilin@yahoo.com.cn

Diagnosis (Fig. 1). Wingspan 49 mm. This species is superficially similar to *M. bani* (Sugi, 1977), but can be distinguished by the antemedial line of forewing indistinct, form by several 3 or 4 darker dots; postmedial line with eight darker dots; subterminal line blurred; adterminal line with darker dots; hindwing blackish brown with luster.

Female genitalia (Fig. 5). Apophysis anterioris moderately long. Apophysis posterioris shorter than anterioris. Ductus bursae sclerotized with many longitudinal striae, and slight curved dorsally at the anterior portion of antrum. Corpus bursae rounded; cervix bursae long, tubular, sclerotized with many longitudinal striae, abruptly

curved anteriorly at basal 1/3, its distal part membranous, hooked.

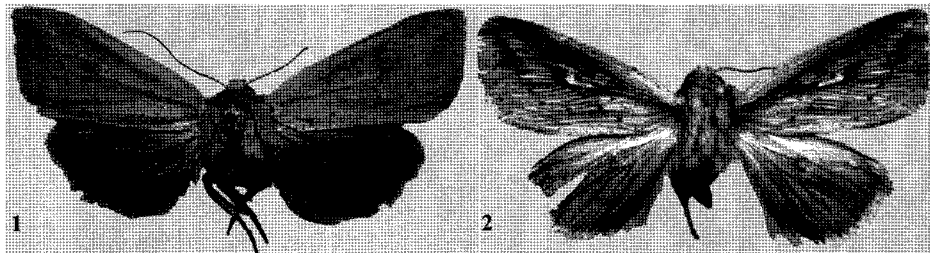
Material examined. 1 ♀, Hanmi, Prov. Xizang, China, 16 VIII 2005 (Huang, Zhou, Tang).

Distribution. China (new record), India.

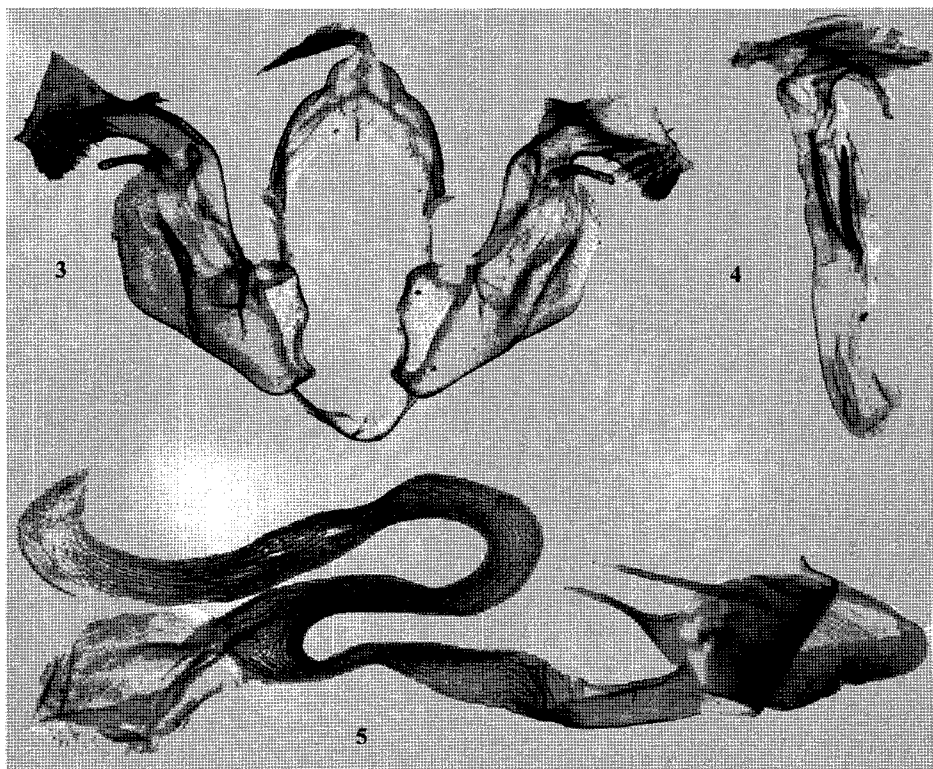
Remarks. This is the first record from outside of the type locality.

Mythimna laxa Hreblay & Yoshimatsu, 1996

Mythimna (Hyphilare) laxa Hreblay & Yoshimatsu, 1996, Anns hist.-nat.Mus.nat.hung. 88:107, figs17-18, 68, 72, 74.



Figs. 1-2. Adult of *Mythimna* sp.: 1. *legraini* (Plante, 1992) 2. *laxa* Hreblay & Yoshimatsu, 1996.



Figs. 3-5. Genitalia of *Mythimna* sp. 3-4. Male: *legraini* (Plante, 1992) 5. female: *laxa* Hreblay & Yoshimatsu, 1996.

Aletia goniosigma: Yoshimoto, 1994, Tinea 14 (Suppl. 1): 105, pl.84, fig.12.

Diagnosis (Fig. 2). Wingspan 35 mm. This species is superficially similar to *M. taiwana* (Wileman, 1912), but can be distinguished by the ground color of wing light; costal area of forewing pale band short; basal band blurred; postmedial line form by 8 darker dots; inner area with rather white; costal area of hindwing rather white.

Male genitalia (Fig. 3-4). Uncus short, slightly curved ventrally with hairs beyond the middle. Valva except cucullus long, with incurved ventral margin on the central portion of sacculus, cucullus with strong hairs; clasper triangle; digitus long and slender; sacculus wide. Aedeagus straight; vesica membranaceous with small granule; a strong and long cornutus, and slender cornuti at middle.

Material examined. 1♂, Motuo, Prov. Xizang, China, 18-27 VIII 2005 (Huang, Zhou, Tang).

Distribution. China (new record), Nepal.

Remarks. This is the first record from outside of the type locality.

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