

DISTRIBUTION NOTES ON TAIWAN MOTHS

I. COTACHENA AND UTHINIA

(LEPIDOPTERA: PYRALIDAE)

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ABSTRACT.— Species of *Cotachena* recorded from Taiwan are noted with extended distribution records from the Taiwan Lepidoptera Survey.

KEYWORDS: Asia, East Asia, Musotiminae, Oriental, Pyraustinae, Scopariinae, taxonomy.

The following distributional notes provide added locality data on species of moths collected from various areas in Taiwan by the Taiwan Lepidoptera Survey since 1981; over 20 years of intensive surveys for Lepidoptera in all areas of Taiwan. In 1992, the project issued the first complete catalog for the Lepidoptera fauna of Taiwan (Heppner and Inoue, 1992). A number of papers, like those noted herein, have been coming out without taking advantage of the specimen data from the Taiwan Lepidoptera Survey. Thus, this report is presented to better document the species data for Taiwan.

In addition to the specimen records noted herein, it is likely that other specimens may be present in unstudied parts of the insect collections of the National Taiwan University, Taipei, and the National Museum of Natural Science, Taichung. Hopefully, the curators there can check their respective collections and in due time report on any specimens of noted species that are found. Likewise, records from the collection of the Taiwan National Museum, Taipei, also remain to be fully documented.

COTACHENA (Pyraustinae)

Recent studies by Yamanaka (2001) have shown similar but previously misidentified specimens of the genus *Cotachena* to be new species for Japan and Taiwan, in addition to two other species of the genus already known from the Far East. Whalley (1961) discussed all species (6 sp.) of *Cotachena* for the Oriental Region to the Solomon Islands. The Taiwan Lepidoptera catalog (Heppner and Inoue, 1992) listed *Cotachena pubescens* (Warren) as present, thus giving us 2 species in Taiwan when Yamanaka (2001) described *Cotachena taiwanalis* Yamanaka as new for Taiwan, but he reported on only 6 specimens studied at the time from collections in Japan.

The following 16 specimen records (in alphabetical order by county and locality, and date order) from the Taiwan Lepidoptera Survey can be added to the records of *C. taiwanalis* in Taiwan (collector abbreviations are JBH for J. B. Heppner and HW for Hsiau-Yue Wang):

CHIAYI CO.	Fennchihwu (1450m), 2-4 Jul 1985, JBH/HW	1♀
ILAN CO.	Chilan Nsy. (480m), 15-17 Oct 1984, JBH/HW	2♂
MIAOLI CO.	Taian Hot Spgs. (600m), 27-28 Jun 1985, JBH/HW	1♂
NANTOU CO.	5 km N. Chitou (500m), 29 Jun 1985, JBH/HW	1♀
TAICHUNG CO.	Chingshan (1100m), 31 Aug-4 Sep 1988, JBH/HW	1♂, 9♀
TAITUNG CO.	Chichpen Hot Spgs. (100m), 28 Aug 1983, JBH	1♂

To review the records from Yamanaka (2001), he noted the following:

CHIAYI CO.	Fennchihwu (1600m), 12-13 Jul 1964, H. Inoue	1♂
MIAOLI CO.	nr. Taian Hot Spgs. (550m), 7 Aug 1983, A. Kawabe	2♂
NANTOU CO.	Lushan (1200m), 27-29 Jul 1983, A. Kawabe	1♂
	Lushan (1200m), 29-31 Jul 1985, Y. Kishida	1♂
	Lushan (1200m), 6 Aug 1974, Y. Kishida	1♀

The following 30 records for *C. pubescens* can also be noted:

PINGTUNG CO.	Kenting Park, 9-15 Mar 1990 (50m), JBH/HW	1♂
	Kenting Park, 23-28 Apr 1989 (50m), JBH/HW	1♀
	Kenting Park, 1-5 Sep 1983 (50m), JBH	4♂, 12♀
TAOYUAN CO.	Upper Palin (1500m), 7-9 Jul 1985, JBH/HW	7♂, 4♀
	Upper Palin (1500m), 11-18 Jul 1996, JBH	1♀

The distribution of both species appears to be widespread in Taiwan, up to about 1600m elevation. Dates of adult activity are thus far known for March to October, probably with continuous generations as long as there are favorable temperatures. The hostplants remain unknown.

UTHINIA (Musotiminae)

In 1996, Yen and Yang (1996) reported the discovery of *Uthinia albisignalis* (Hampson) for Taiwan, a tropical Asian species previously known only as far north as the Philippines. Their records included only 6 specimens for Taiwan, from the years 1982 to 1986.

The Taiwan Lepidoptera Survey has 44 specimens, with locality records as noted below (collector abbreviations are as above):

HSINCHU CO.	Kuangwu F. S. (2000m), 18-25 Aug 1988, JBH/HW	18♂, 21♀
TAICHUNG CO.	Chingshan (1100m), 31 Aug-4 Sep 1988, JBH/HW	1♂, 3♀
	Chingshan (1100m), 27 Mar - 1 Apr 1990, JBH/HW	1♀

The records from Yen and Yang (1996) are as follows (the Chang specimens are all housed now at the National Museum of Natural Science, Taichung):

NANTOU CO.	Jeng-ai, Meifeng (2350m), 29 Jun 1984, B.-S. Chang	1♀
	Hsing-yi, Tonpu (900m), 31 Jan 1985, B.-S. Chang	1♀
TAOYUAN CO.	Fusing, Suling (800m), 12 Oct 1982, B.-S. Chang	1♂
TAICHUNG CO.	Hoping, Dahsuehshan (2650m), 9 Aug 1986, S.-H. Yen	3♀

The adult phenology for *U. albisignalis* covers the months of Jan, Mar-Jun, and Aug-Oct, but continuous generations are likely. The subfamily placement of the genus remains unclear, currently being in Musotiminae, but possibly may belong in Scopariinae.

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