

云南省尾小卷蛾亚族新种记述*

(鳞翅目:卷蛾科)

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尾小卷蛾亚族 (Sorolophae) 共有三个近缘属。在我国已知有圆斑小卷蛾属 (*Eudemopsis*) 8种,圆点小卷蛾属 (*Eudemis*) 3种,尾小卷蛾属 (*Sorolopha*) 5种,共计16种。其中有云南省纪录的只有3种。最近发现在云南省各属有一新种,尾小卷蛾属有两种新纪录。它们是:

1. 樟尾小卷蛾 *Sorolopha archimedi* (Meyrick): 勐腊、陇川。
 2. 细尾小卷蛾 *Sorolopha tenuirurus* Liu et Bai: 勐腊。
 3. 羽尾小卷蛾 *Sorolopha plumboviridis* Diakonoff, 新纪录: 陇川。
 4. 叶尾小卷蛾 *Sorolopha phyllochloa* (Meyrick), 新纪录: 勐腊、陇川。
 5. 绿尾小卷蛾 *Sorolopha chlorotica* Liu et Bai, 新种: 勐腊、小勐仑。
 6. 白点圆斑小卷蛾 *Eudemopsis albopunctata* Liu et Bai, 新种: 丽江。
 7. 多毛圆斑小卷蛾 *Eudemopsis polytrichia* Liu et Bai, 新种: 小勐仑。
 8. 白斑圆点小卷蛾 *Eudemis albomaculatis* Liu et Bai, 新种: 勐腊。
- 全部标本(包括模式标本)保存在中国科学院动物研究所昆虫标本馆。

种的记述

羽尾小卷蛾 *Sorolopha plumboviridis* Diakonoff 新纪录(图版 I:4, II:7)

雄蛾前翅长8毫米。颜面、头顶有丛毛,唇须及触角第一节灰白棕色,触角其余各节褐色。唇须前伸,末节略向下垂,第二节端部混有黑褐色鳞片。翅基片及胸部绿黑褐色。前翅前缘白色的钩状纹明显;基斑前缘部分黑褐色,后缘部分淡绿褐色;中带从前缘到中室地方呈黑褐色,从中室到臀角断续的呈现淡绿褐色。前缘端部钩状纹下方有一三角形白色斑纹,其中插有箭头形褐色斑,白色斑纹下方至臀角之间有一近似方形的黑褐色块状斑。后翅及缘毛暗褐色。雄性外生殖器背兜长,尾突长柱状、弧形、粗细不匀、端部略膨大、有长毛。抱器瓣狭长;基部呈三角形,在抱器腹上有一簇密丛毛;中部凹陷,很细;端部扩大呈三角形,上面密生长毛,腹面三角形的一角上有一根长刺。阳茎细长,末端尖。

分布: 云南陇川;印度尼西亚。

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* 成虫照片由买国庆同志拍照,谨表谢意。

叶尾小卷蛾 *Sorolopha phyllochloa* (Meyrick) 新纪录(图版 I:5, II:6, 12)

雄蛾前翅长 7.3 毫米。颜面黄白色, 头顶丛毛、翅基片及唇须灰绿色, 触角褐色。唇须前伸, 第二节末端膨大, 末节短小、略向下垂、部分隐藏在鳞片。前翅基斑灰绿褐色, 但不明显; 中带绿棕褐色, 从前缘中部斜向后缘臀角内侧, 其外缘清楚, 内缘界限不清楚, 近后缘绿色鳞片增多。前缘白色钩状纹明显, 中带至外缘间有一黑褐色大圆斑, 圆斑外围呈灰白色。后翅暗褐色, 缘毛棕色。雄性外生殖器背兜长。尾突细长、下垂、端部略膨大、有长毛。抱器瓣狭长; 基部接近四方形, 腹面有少许几丁质化不强的长毛; 中部凹陷变得很细; 端部扩大呈三角形, 上面密生长毛, 腹面有几丁质化强的长刺和短刺, 其中以顶角的一根最粗壮。阳茎细长、圆柱状、弯曲、末端钝。

分布: 云南陇川、勐腊; 斯里兰卡, 印度。

绿尾小卷蛾 *Sorolopha chlorotica* Liu et Bai 新种(图版 I:2, II:10, 11)

雄蛾前翅长 6.0—6.2 毫米。头、胸部及翅基片具有绿色长鳞毛。触角淡褐色, 有黑褐色宽环。唇须前伸, 绿色加杂有黑褐色鳞片, 第二节最长, 第三节短小, 部分隐藏在第二节末端鳞片中。前翅基部 1/2 绿色, 由基角通向后缘加杂有许多排列不规则的黑褐色鳞片, 前缘有黑褐色鳞片组成的条斑; 端部 1/2 棕褐色, 内侧中带部分色深, 钩状纹明显而且下接银棕色条纹, 肛上纹部位亦呈银棕色, 顶角内侧有一大块黑褐色圆形斑, 在中室端部有近似小三角形的黑褐斑, 周围镶有银棕色边。后翅棕褐色, 前缘灰白色, 顶角深褐色。雌性外生殖器的背兜长; 尾突细长, 末端膨大, 有长毛; 抱器瓣狭长, 端部 2/3 密生长毛, 近抱器腹形成细短刺; 抱器腹 3/5 处有乳状突起, 末端有一枚短刺, 附近有 3—5 枚长刺; 阳茎细长柱状、弧形、末端钝。雌性外生殖器的产卵瓣呈纺锤形; 阴片三角形, 边缘具微刺; 囊突 2 枚, 圆形菊花状。

本种与台尾小卷蛾 (*S. plinthograpt*) 的雄性外生殖器十分近似, 只是在抱器端的长短宽窄上和抱器腹的乳状突的刺列上以及阳茎形状上显有不同。其他在雌性外生殖器的阴片、囊突上以及成虫的前翅颜色和斑纹上则彼此差别更大。

正模(♂): 云南省小勐仑, 1982. IV. 23, 白九维采。 配模(♀): 云南省勐腊, 1982. IV. 21, 白九维采。

多毛圆斑小卷蛾 *Eudemopsis polytrichia* Liu et Bai 新种(图版 I:1, II:8)

雄蛾前翅长 6 毫米。触角淡褐色, 有深褐色环。头部、翅基片及唇须深棕褐色。唇须向上曲, 外侧有黑褐色鳞片。前翅棕褐色, 有黑褐、棕黄色斑; 从中室端部到外缘有 3 块明显的黄褐色块状斑: 顶角一块呈长条形, 臀角一块接近半圆形, 还有一块最大的近似卵圆形, 位于长条形斑纹的内侧。后翅前缘直到顶角呈淡黄褐色, 其余部分呈灰褐色。雄性外生殖器的抱器瓣长椭圆形; 抱器背比较直; 抱器腹弧度大, 有一排稀疏的长毛列; 整个抱器瓣自基部洞穴以上有一椭圆形布满绒毛区。尾突基本消失。阳茎直, 圆锥形。

本种与短尾圆斑小卷蛾 (*E. brevis*) 很相似, 主要区别是雄性外生殖器的尾突消失, 抱器瓣内有椭圆形布满绒毛区。

正模(♂): 云南省小勐仑, 1982. VI. 14, 邓晓保采。

白斑圆点小卷蛾 *Eudemis albomaculatis* Liu et Bai 新种(图版 I:3, II:9)

雄蛾前翅长 7.0—7.3 毫米。颜面及头顶有黑褐色丛毛。触角黑褐色加杂有一些白色鳞片。唇须前伸,第二节末端膨大部分和第三节呈黑褐色,其余部分都是白色。翅基片白色或黄白色。后胸脊突鳞片黑褐色。各足基节、腿节呈白色,加杂有黑褐色鳞片。腹部腹面淡黄色,背面淡黑褐色。前翅黑褐色;有两块三角形白斑:一块位于基部,另一块位于后缘;臀角处有一块淡棕褐色不规则块状斑;前缘钩状纹明显,在白色部分呈黑褐色,黑褐色部分呈白色。后翅前缘白色,其余为褐色。雄性外生殖器的抱器瓣长条形,基部洞穴大约占全长的 1/2,抱器腹较直,具有两簇毛丛,基部的一簇特别长,端部的一簇很短。抱器背有一指状突,突上具有柱状刺 5—8 枚,由突斜向抱器腹有一排柱状刺,其外侧密布细毛和短刺。尾突弧形,末端不膨大。阳茎圆柱状、弯曲、基部稍粗,末端圆锥状。

正模(♂): 云南省勐腊, 1982. IV. 21, 白九维采。副模(3♂♂): 云南省勐腊, 1982. IV. 20—21, 白九维采。

A STUDY ON THE SUBTRIBE SOROLOPHAE IN YUNNAN PROVINCE (LEPIDOPTERA: TORTRICIDAE)

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According to the authors' study on Chinese Sorolophae*, 8 species of *Eudemopsis*, 3 species of *Eudemis* and 5 species of *Sorolopha* have been described. This paper records 8 species of Yunnan Sorolophae which were collected by the authors in 1982. Among them, 3 species are described here as new and 2 species (*Sorolopha phyllochloa* (Meyrick) and *S. plumboviridis* Diakonoff) are recorded for the first time in China. With these 5 species, the total number of Chinese species amounts to 21. All specimens are kept in the Institute of Zoology, Academia Sinica.

Sorolopha chlorotica Liu et Bai, sp. nov.

Length of forewing 6.0—6.2 mm. Head, thorax and tegula with green long scales. Antenna light brown, with dark brown annulation. Palpus green, with dark brown scales. Forewing green on posterior half, costa with numerous fine dark-brown strigulae; dark brown on anterior half with rounded central patch surrounded by silver brown stripes. Hindwing dark brown with greyish-white fringe.

Male genitalia. Tegumen high and slender; socius longer and narrower, with apical modified bristles; valva very long and slender, Spc. large, with several long spines and one short spine at the tip. Cucullus with densely bristled. Aedeagus slender, curved,

* 1982. On Chinese *Eudemopsis* with descriptions of five new species. *Sinozoologica* 2: 45—54.

1982. Three new species of Sorolophae Diakonoff 1973 from China. *Entomotaxonomia* 4(3): 167—171.

apex obtuse. Female genitalia. Sterigma triangular, with minute spines; signa, two round sclerotizations of the granulate wall of the bursa.

The male genitalia of *chlorotica* are similar to those of *plinthograptia*, but differ from the latter chiefly in the length and width of cucullus, the shape of the aedeagus and the spine on sacculus. Besides, the external characters between these two species are quite different.

Holotype ♂: Yunnan Province: Xiau Menglun, IV. 13, 1982. Bai Jiuwei.

Allotype ♀: Yunnan Province: Mengla County, IV. 21, 1982. Bai Jiuwei.

***Eudemopsis polytrichia* Liu et Bai, sp. nov.**

♂ Length of forewing 6 mm. Antenna light brown, with dark brown annulation. Head, tegula and palpus dark yellow-brown. Palpus ascending, with brownish-black scales on outside. Ground color of forewing yellowish-brown; from discal cell to termen with three large ochraceous patches: the apex one elongate, the tornus one half roundate and the largest one inside the apex ovate. Hindwing greyish-brown, with costa ochraceous.

Male genitalia: Valva oblong; costa comparatively straight; sacculus curved, with a series of long hairs; anterior 2/3 of valva are densely haired. Socius absent. Aedeagus straight, conical.

The male genitalia of *polytrichia* are similar to those of *brevis*, but differ from the latter chiefly by the absence of socius, with very densely hairs on the anterior 2/3 of the valva.

Holotype ♂: Yunnan Province: Xiau Menglun, VI. 14, 1982. Deng Xiaobao.

***Eudemis albomaculatis* Liu et Bai, sp. nov.**

♂ Length of forewing 7.0—7.3 mm. Face, vertex with brownish-black and white tufts. Antenna brownish-black, mixed with some white scales. Palpus porrected, white; median segment dilated portion and terminal segment brownish-black. Coxa, tibia white, with some brownish-black scales. Abdomen venter yellow, dorsum light brownish-black. Forewing brownish-black, with two triangular white patches: one at the base, other at the dorsum; tornus with a irregular yellowish-brown patch; costa strigulae conspicuous, brownish-black in white area, white in brownish-black area. Hindwing brown, with white costa.

Male genitalia: Valva elongate, basal hole about 1/2 of the whole length, sacculus straight with two tufts of hairs: basal one rather long, terminal one short. Costa with a rising projection which contains 5—8 spines, from rising projection oblique to sacculus with a row of spines, its outside distributed with densely hairs and short spines. Socius curved, not expanded at the tip. Aedeagus round tube-like, slightly curved.

Holotype ♂: Yunnan Province: Mengla County, IV. 21, 1982. Bai Jiuwei.

Paratype 3 ♂♂: Date, locality and collector same as the holotype.

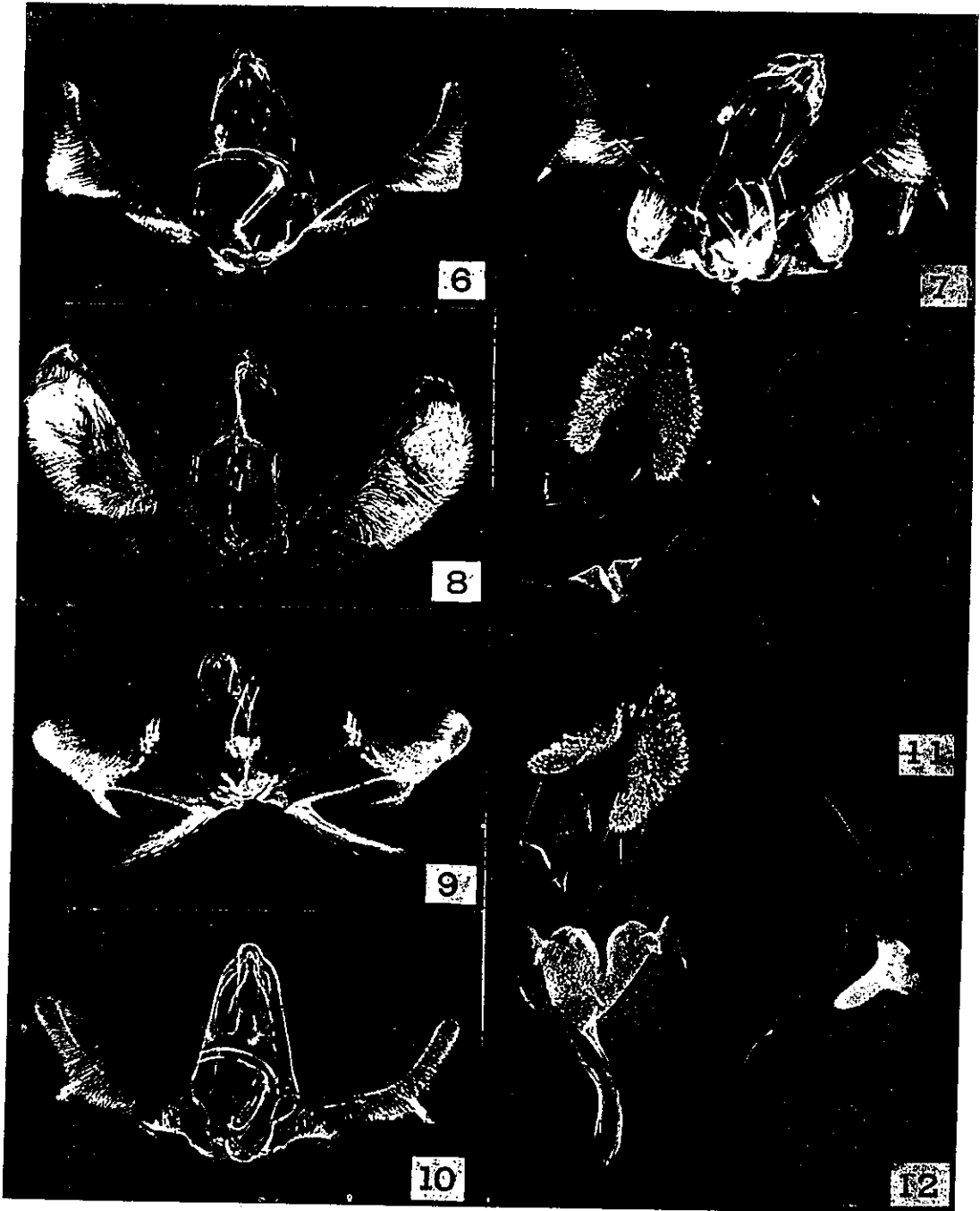


图 6—12 雌雄外生殖器

6. 叶尾小卷蛾 *Sorolopha phyllochloa* (Meyrick) (σ^7) 7. 羽尾小卷蛾 *Sorolopha plumboviridis* Diakonoff (σ^7)
8. 多毛圆斑小卷蛾 *Eudemopsis polytrichia* Liu et Bai (σ^7) 新种 9. 白斑圆点小卷蛾 *Eudemis albomaculatis* Liu et Bai (σ^7) 新种
10. 绿尾小卷蛾 *Sorolopha chlorotica* Liu et Bai (σ^7) 新种 11. 绿尾小卷蛾 *Sorolopha chlorotica* Liu et Bai (♀) 新种
12. 叶尾小卷蛾 *Sorolopha phyllochloa* (Meyrick) (♀)

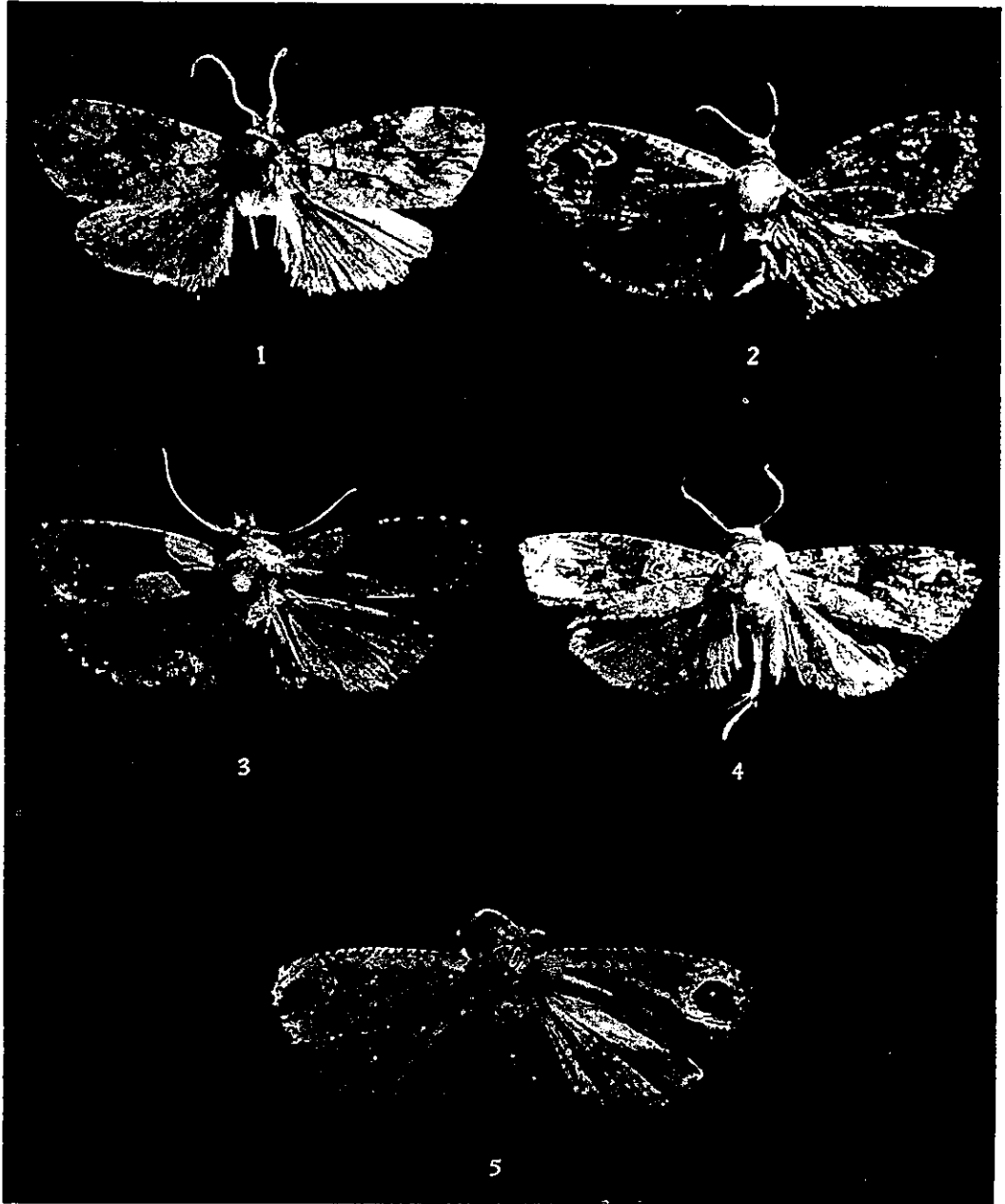


图 1—5 成虫

1. 多毛圆斑小卷蛾 *Eudemopsis polytrichia* Liu et Bai 新种 2. 绿尾小卷蛾 *Sorolopha chlorotica* Liu et Bai 新种
3. 白斑圆点小卷蛾 *Eudemis albomaculatis* Liu et Bai 新种 4. 羽尾小卷蛾 *Sorolopha plumboviridis* Diakonoff
5. 叶尾小卷蛾 *Sorolopha phyllochloa* (Meyrick)