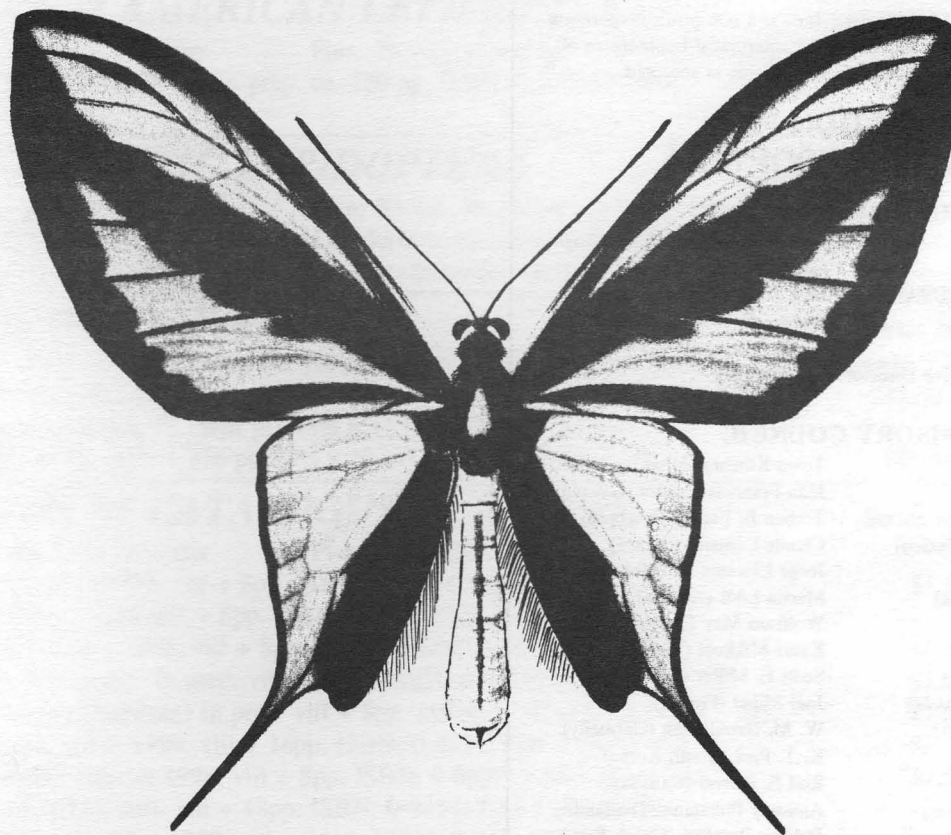


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30 Dec 2004

A NEW SPECIES OF THE GENUS *GLAUCHARIS* FROM CHINA (LEPIDOPTERA: PYRALIDAE: CRAMBINAE)¹

TIE-MEI CHEN, SHI-MEI SONG, DE-CHENG YUAN² and GUANG-XUE ZHANG

Institute of Zoology, Chinese Academy of Sciences, Beijing 100080, P. R. China

ABSTRACT.— *Glaucocharis castaneus* n. sp. from Guangxi, South of China, is described. The new species can be recognized by the chestnut-brown forewings, two black terminal spots and asymmetrical valvae. A list of species of *Glaucocharis* Meyrick from China is given.

KEY WORDS: Asia, distribution, Fujian, *Glaucocharis castaneus* n. sp., Guangxi, Hainan, Heilongjiang, Hubei, Hunan, Jiangxi, Jilin, Oriental, Shandong, Shanxi, Sichuan, taxonomy, Tibet, Xizang, Yunnan, Zhejiang.

Wang et al. (1988) revised the species of *Glaucocharis* Meyrick from the southeastern Palaearctic Region and the Oriental Region. Song (1993) described one new species from China. Chen et al. (2001) described five new species from China. Here, another new species is described from south China. A total of 47 species are at present known from China. The terminology follows Bleszynski (1965). Type specimens of the new species are deposited in the Institute of Zoology, Chinese Academy of Sciences, Beijing, China. (abbreviated as IZAS in the text).

Glaucocharis castaneus Song & Chen, new sp.

Description.— Male (Fig. 1). Head: white. Antenna yellow brown. Labial palpi porrect with first segment brown, second segment yellow and third segment brown. Apical scales on maxillary palpi triangular, white. Thorax: brown. Abdomen: brown. Forewing: ground colour white, with scattered brown scales. Antemedial fascia absent. Reniform spot absent. A black spot at 1/2 of costal margin. Apical spot yellow, white in center. Terminal margin with two black spots on tornus. Fringe grey. Hindwing: light ochreous. Fringe light ochreous. Male genitalia (Fig. 2-3): Uncus slightly curved near base, sharp and narrow at apex. Gnathos narrow, sharp at apex. Valvae asymmetrical. Right valva narrow; costa strongly sclerotized; basal prong on costa shorter than cucullus; Left valva broad; costa not sclerotized; basal prong on costa longer than cucullus. Cucullus setose, pointed. Juxta shield-shaped. Aedeagus truncate at apex, with more than 9 cornuti.

FEMALE: Unknown.

Types.— Holotype male: P. R. China.— Guangxi: Miaoshe (25.8°N, 110.4°E), 2141m, 10 Jun 1985, coll. S.-M. Song, gen. slide no. C1045 IZAS.

Paratypes (4♂): 1♂, gen. slide no. C1043 IZAS, other data same as holotype; 1♂, Guangxi: Longsheng (25.7°N, 110.0°E), 840m, 10 Jun 1963, coll. C. G. Wang, gen. slide no. C986 IZAS; 1♂, ditto, gen. slide no. C643 IZAS; 1♂, Sichuan: Wanxian (30.8°N, 108.3°E), 1200m, 11 Aug 1993, coll. S.-M. Song, gen. slide no. C 1168 IZAS.

Distribution.— P. R. China: Guangxi, Sichuan.

Etymology.— The species name is derived from Latin *castaneus* (= castaneous), referring to the color of the forewing.

Remarks.— This new species is closely related to *G. tripunctata* (Moore, 1888) in external characters, but differs in the shape of the male genitalia: in *G. castaneus* sp. n. the valvae are asymmetrical, the basal prong on costa is shorter than the cucullus on the right valva and longer than the cucullus on the left valva. In *G. tripunctata* the valvae are symmetrical and the basal prongs on costa are longer than the cucullus in both valvae.

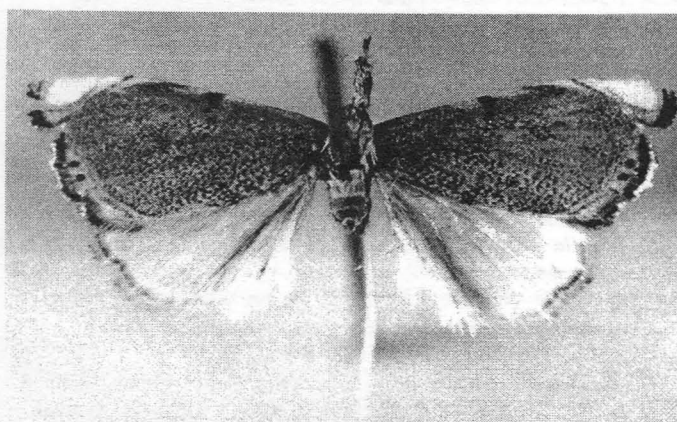


Fig. 1. Adult male of *Glaucocharis castaneus* n. sp.

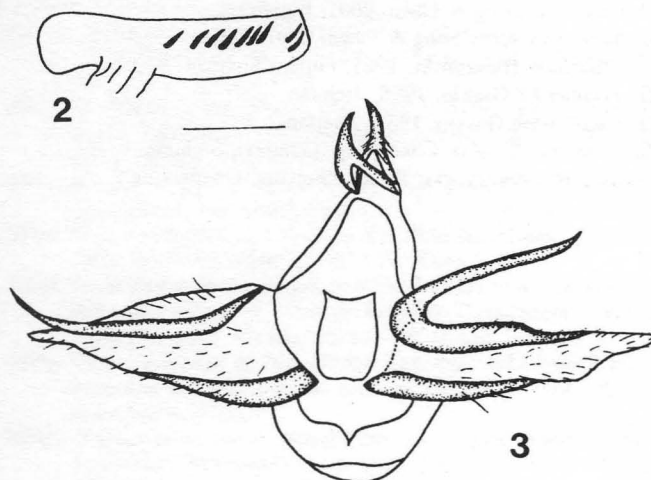


Fig. 2-3. Male genitalia of *Glaucocharis castaneus* n. sp. 2. aedeagus; 3. valva. (scale = 0.5mm).

Checklist of Chinese Species of *Glaucocharis*, with distributional records for China

1. *G. tripunctata* (Moore, 1888). Jiangxi, Guangxi.
2. *G. melistoma* (Meyrick, 1931). Hubei, Guangxi, Fujian, Sichuan.

1. Project supported by a grant for systematic and evolutionary biology, Chinese Academy of Sciences.

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3. *G. electra* (Bleszynski, 1965). Hubei, Guangxi.
4. *G. baculella* Wang & Song, 1988. Fujian, Guangxi.
5. *G. minutalis* (Hampson, 1893). Hunan, Guangxi.
6. *G. fibetensis* Wang & Song, 1983. Xizang (Tibet).
7. *G. pomae* Wang & Song, 1988. Xizang (Tibet).
8. *G. vermeeri* (Bleszynski, 1965). Jilin.
9. *G. taeniata* Wang & Song, 1988. Fujian, Sichuan.
10. *G. spinulella* Wang & Song, 1988. Jiangxi, Xizang.
11. *G. forcipella* Wang & Song, 1988. Guangxi, Sichuan.
12. *G. exsectella* (Christoph, 1881). Heilongjiang.
13. *G. parmulella* Wang & Song, 1988. Shanxi.
14. *G. octacornutella* Wang & Song, 1988. Sichuan.
15. *G. bifidella* Wang & Song, 1988. Sichuan.
16. *G. albilinealis* (Hampson, 1896). Sichuan.
17. *G. copemici* (Bleszynski, 1965). Zhejiang.
18. *G. subalbilinealis* (Bleszynski, 1965). Hubei, Sichuan, Yunnan.
19. *G. infundella* Wang & Song, 1988. Sichuan.
20. *G. ramona* (Bleszynski, 1965). Sichuan.
21. *G. chelatella* Wang & Song, 1988. Yunnan.
22. *G. qujingella* Wang & Song, 1988. Fujian, Yunnan.
23. *G. palidella* Wang & Song, 1988. Fujian, Guangxi.
24. *G. rhamphella* Wang & Song, 1988. Hubei, Sichuan.
25. *G. lunatella* Wang & Song, 1988. Sichuan.
26. *G. rosannoides* (Bleszynski, 1965). Zhejiang, Hubei, Sichuan.
27. *G. quadratella* Song & Chen, 2001. Guangxi.
28. *G. alatella* Wang & Song, 1988. Sichuan.
29. *G. ochronella* Wang & Song, 1988. Yunnan.
30. *G. furculella* Wang & Song, 1988. Yunnan.
31. *G. reniella* Wang & Song, 1988. Fujian, Guangxi, Sichuan, Yunnan.
32. *G. spiculella* Wang & Song, 1988. Fujian, Guangxi.
33. *G. apicudentella* Song & Chen, 2001. Guangxi.
34. *G. mutuurella* (Bleszynski, 1965). Hubei, Fujian.
35. *G. mōriokensis* (Okano, 1962). Shandong, Hubei, Fujian, Sichuan.
36. *G. lungqishanna* Song, 1993. Fujian, Hainan, Guangxi, Sichuan.
37. *G. parthenie* (Bleszynski, 1965). Fujian.
38. *G. rectifascialis shafferi* Gaskin, 1988. Fujian, Sichuan.
39. *G. lasiotella* Song & Chen, 2001. Guangxi.
40. *G. taphrophracta* (Meyrick, 1934). Guangxi.
41. *G. hastatella* Song & Chen, 2001. Fujian.
42. *G. huanggangensis* Song & Chen, 2001. Fujian.
43. *G. omeishani* Bleszynski, 1965. Fujian, Sichuan.
44. *G. assamensis* Gaskin, 1988. Sichuan.
45. *G. himalayana* Gaskin, 1988. Zhejiang.
46. *G. castaneus* Song & Chen n. sp. Guangxi, Sichuan.
47. *G. rosanna* (Bleszynski, 1965). Zhejiang, Guangdong.

ACKNOWLEDGMENTS

We are indebted to Dr. Shen-Horn Yen, National Sun Yat-Sen University, Taiwan, for providing the photographs of *G. tripunctata* and to Mr. G. Q. Mai, Research Center of Animal Evolution and Systematics, Institute of Zoology, Chinese Academy of Sciences, Beijing, for preparing photograph for this study.

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THE GENUS *ANCYLOLOMIA* FROM CHINA, WITH DESCRIPTIONS OF TWO NEW SPECIES (LEPIDOPTERA: PYRALIDAE: CRAMBINAE)¹

TIE-MEI CHEN, SHI-MEI SONG, DE-CHENG YUAN² and GUANG-XUE ZHANG

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ABSTRACT.— The Chinese species of *Ancylolomia* Hübner are presented. Sixteen species are recognized, including two new species: *A. carcelloides* Song & Chen n. sp. and *A. longicornella* Song & Chen n. sp. One species, *A. taprobanensis* Zeller, is recorded for the first time from China. A key to the Chinese species based on male genitalia is provided.

KEY WORDS: *Ancylolomia carcelloides* n. sp., *Ancylolomia longicornella* n. sp., Asia, distribution, Fujian, Guangdong, Guangxi, Hainan, Heilongjiang, Hubei, Hunan, Jiangxi, Jilin, key, Oriental, Shandong, Shanxi, Sichuan, taxonomy, Tibet, Xizang, Yunnan, Zhejiang.

Bleszynski (1965, 1970) revised 17 species of the genus *Ancylolomia* Hübner from the Palearctic Region and 18 species from the Oriental Region. Wang and Song (1981, 1982) revised 11 species, including 4 new species from China, and divided the Palearctic species into 3 species groups. Rougeot (1984) described 2 new species from Ethiopia. Presently, 70 species and 5 subspecies are known in the world: 32 species are distributed in the Ethiopian Region; 18 species in the Oriental Region; 17 species in the Palearctic Region and only one in the Australian Region. A discussion on the distribution and dispersal of the genus was given by Bleszynski (1965). Here, we report 16 species of *Ancylolomia* from China, with two new species recorded for the first time from China. Bleszynski (1965, 1970) and Wang and Song (1981, 1982) provided synonymical references and distribution records from outside China.

The terminology follows Bleszynski (1965, 1970). Type specimens of the new species are deposited in the Institute of Zoology, Chinese Academy of Sciences, Beijing (abbreviated as IZAS in the text).

Genus *ANCYLOLOMIA* Hübner, 1825

Ancylolomia Hübner 1825: 363

Jartheza Walker 1863: 183

Ctenus Mabille 1906: 32

Pseudoctenella Strand 1907: 175

Tollia Amsel 1949: 280

Generic diagnosis.— Forewing narrow, with two curved subterminal lines and metallic silvery longitudinal streaks. Antennae in male serrate, lamellate or pectinate. Frons slightly protruded forward beyond eye, round, without conical point. Frenulum of female single. Forewing with Sc and R₁ coalescent, R₃, R₄ and R₅ stalked. Hindwing with M₂ present and the cell open.

Male genitalia: Uncus and gnathos present; in most instances, valva without process in costa and sacculus. Juxta variable. Pseudosacculus and saccus present. Vinculum narrow.

Female genitalia: Anal papillae with setae. Ductus bursae broad, lightly sclerotized. Copus bursae without signum.

Distribution.— Ethiopian, Oriental, Palearctic and Australian Regions.

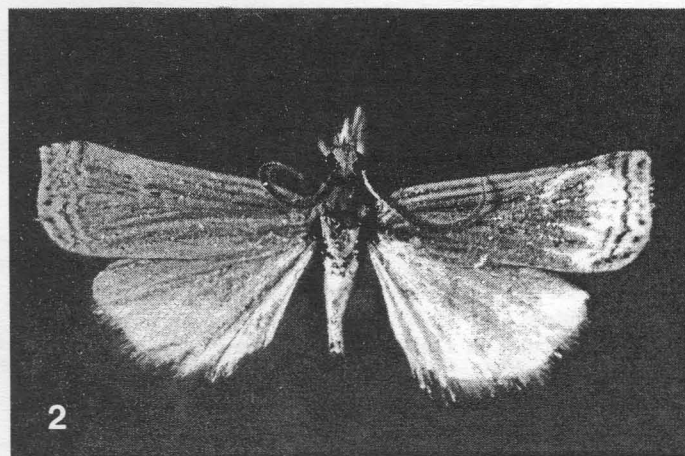
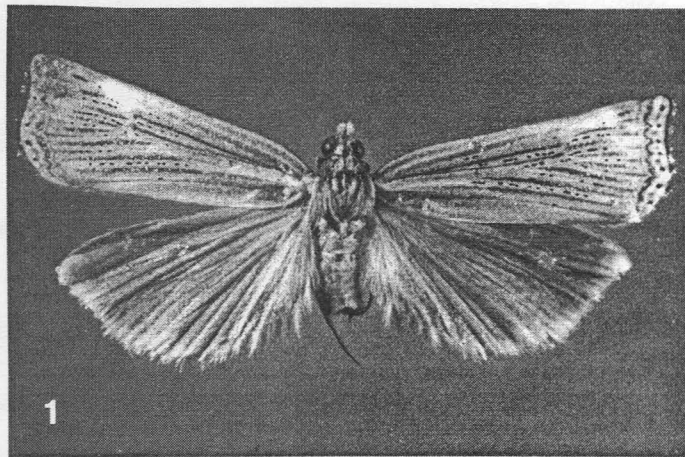


Fig. 1-2. Adults: 1. *Ancylolomia carcelloides* Song & Chen n. sp., holotype male; 2. *Ancylolomia longicornella* Song & Chen n. sp., holotype male.

Checklist of the Chinese *Ancylolomia*, with distributional records from China

1. *A. aduncella* Wang & Song - Fujian, Yunnan.
2. *A. bituberosella* Amsel - Guangdong, Fujian, Yunnan.
3. *A. carcelloides* Wang & Song - Yunnan.
4. *A. carcelloides* Song & Chen n. sp. - Yunnan.
5. *A. chrysographella* (Kollar) - Guangxi, Yunnan.

1. Project supported by a grant for systematic and evolutionary biology, Chinese Academy of Sciences.

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6. *A. hamatella* Wang & Song - Yunnan.
7. *A. indica* Felder - Fujian, Guangdong, Hainan, Yunnan.
8. *A. intricata* Bleszynski - Guangdong, Hainan.
9. *A. japonica* Zeller - Heilongjiang, Liaoning, Gansu, Hebei, Shanxi, Shandong, Jiangsu, Zhejiang, Hubei, Hunan, Fujian, Guangdong, Hainan, Guangxi, Sichuan, Xizang.
10. *A. likiangella* Bleszynski - Yunnan.
11. *A. locupletella* (Kollar) - Yunnan, Xizang.
12. *A. longicorniella* Song & Chen n. sp. - Guangdong.
13. *A. palpella* (Denis & Schifferrmüller) - Xinjiang.
14. *A. rotaxella* Bleszynski - Yunnan.
15. *A. taprobanensis* Zeller - Yunnan.
16. *A. umbonella* Wang & Song - Yunnan.

**Key to the Chinese Species of *Ancylolomia*,
based on male genitalia**

1. - Aedeagus with a long and thin cornutus *A. chrysographella* (Kollar)
- Aedeagus without long and thin cornutus 2
2. - Uncus with thorns dorsally 3
- Uncus without thorn dorsally 15
3. - Uncus with one thorn dorsally 4
- Uncus with two thorns on dorsally 6
4. - Valva with a subcostal process *A. intricata* Bleszynski
- Valva without process 5
5. - Juxta with two long arms *A. rotaxella* Bleszynski
- Juxta without long arms *A. japonica* Zeller
6. - Dorsal thorns of uncus long, nearly 1/3 length of uncus ... 7
- Dorsal thorns of uncus long, shorter than 1/3 length of uncus . 10
7. - Dorsal thorns of uncus pointing to base of uncus 8
- Dorsal thorns of uncus pointing to apex of uncus 9
8. - Juxta with two long arms *A. carcinella* Wang & Song
- Juxta without long arm *A. likiangella* Bleszynski
9. - Juxta with two fist-shaped small projections above *A. umbonella* Wang & Song
- Juxta with two long projections *A. carcinelloides* Song & Chen n. sp.
10. - Dorsal thorns of uncus pointing suddenly *A. bitubirosella* Amsel
- Dorsal thorns of uncus pointing gradually 11
11. - Valva with a process on costa 12
- Valva without process on costa 13
12. - Valva with a horn-like, compressed subbasal process *A. aduncella* Wang & Song
- Valva with a flap-like subcostal process *A. longicorniella* Song & Chen n. sp.
13. - Juxta with two long and broad arms 14
- Juxta without long arm *A. indica* Felder
14. - Apex of juxta with a minute triangular horn *A. hamatella* Wang & Song
- Apex of juxta without horn *A. taprobanensis* Zeller
15. - Uncus swollen dorsally . *A. palpella* (Denis & Schifferrmüller)
- Uncus not swollen dorsally *A. locupletella* (Kollar)

***Ancylolomia carcinelloides* Song & Chen, new sp.**

Description.— MALE (Fig. 1): Wing expanse 26 mm. **Head:** Antenna yellow-brown, pectinate. Frons yellow-brown. Labial palpi yellow-brown, light-yellow medially, twice as long as diameter of eye. Maxillary palpi yellow-brown. **Thorax:** dark ochreous. **Forewing:** dark ochreous, with scattered dark-brown scales; subterminal fasciae dark-brown, doubled, saw-toothed; dark-brown terminal spots present; fringe brown, glossy. **Hindwing:** dark ochreous, fringe dull-white. **Abdomen:** dark ochreous. **Male genitalia** (Fig. 3): Uncus and gnathos equal in length. Uncus with a pair of thorns directed toward tip of uncus, nearly 1/3 length of uncus, apically

pointed. Costa not sclerotized. Saccus folded, lightly sclerotized. Juxta suboval, with a pair of arms protruding above. Aedeagus apex sclerotized, slightly swollen in middle, without cornutus.

FEMALE: Unknown.

Types.— Holotype male: P. R. CHINA.— Yunnan: Yiliang, (24.9°N, 103.1°E), 1900m, 11 Jun 1979, W.-C. Chao, gen. slide no. C893 IZAS

Paratype: 1♂, P. R. CHINA.— Yunnan: Hekou, 11 Jul 1956, Bangfeiluofu, gen. slide no. C593 IZAS.

Distribution.— P. R. China: Yunnan.

Etymology.— The species name is derived from Latin *oides* = similar, referring to the similarity with *A. carcinella* Wang & Song in the shape of the valva and aedeagus.

Remarks.— This species resembles *A. carcinella* Wang & Song in the shape of the genitalia, but in *A. carcinelloides* the uncus has a pair of thorns pointing to the tip of uncus and the cucullus is without fold. In *A. carcinella* uncus has a pair of thorns pointing to the base of the uncus and the cucullus is folded. According to Wang and Song (1981) definition of Palearctic *Ancylolomia* species groups, the new species belongs to the *A. palpella* species group.

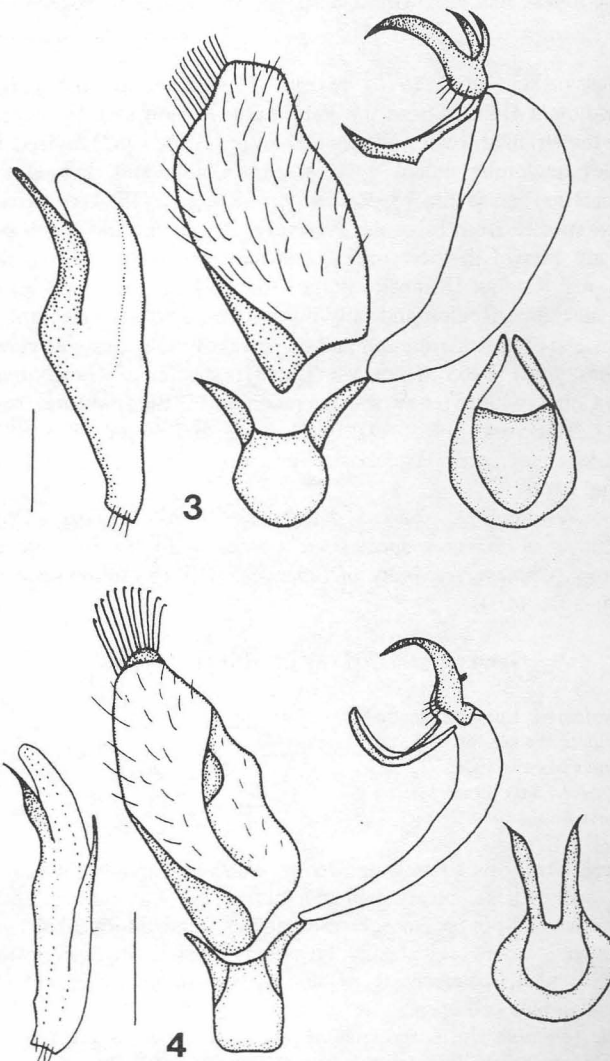


Fig. 3-4. Male genitalia a) aedeagus; b) valva; c) juxta: 3. *Ancylolomia carcinelloides* Song & Chen n. sp.; 4. *Ancylolomia longicorniella* Song & Chen n. sp. (scale line = 0.5mm).

***Ancylolomia longicorniella* Song & Chen, new sp.**

Description.— MALE (Fig. 2): Wing expanse 15-16 mm. Externally, rather similar to *A. indica* and other species. **Head:** Antenna yellow-brown, pectinate. Frons yellow-brown. Labial palpi yellow, 1.5 times as long as

diameter of eye. Maxillary palpi yellow. *Thorax*: ochreous. *Forewing*: ground color ochreous, with scattered brown scales, a dull-white longitudinal line below the cell present; subterminal fascia dark-brown, doubled, saw-toothed; dark-brown terminal spots present; fringe brown, glossy. *Hindwing*: dull white, fringe dull-white. *Abdomen*: light ochreous. *Male genitalia* (Fig. 4): Uncus and gnathos equal in length. Uncus with a pair of knob-shaped, small thorns, each with a seta at apex. Valva with a large, flap-like, subcostal process. Sacculus folded, lightly sclerotized. Juxta globe-shaped below, with two narrow arms above, apically pointed. Aedeagus apex sclerotized, without cornutus.

FEMALE: Unknown.

Types.— Holotype male: P. R. CHINA.— Guangdong: Guangzhou, (23.1°N, 113.2°E), 50m, 28 Jun 1958, Y.-X. Chen, gen. slide no. C602 IZAS.

Paratypes: 2♂, P. R. CHINA.— same locality, 29 Aug 1958, B. L. Zhang, gen. slide no. C618 IZAS and C607 IZAS.

Distribution.— P. R. China: Guangdong.

Etymology.— The species name is derived from Latin *longicornis* = long horns, referring to the long arms of the juxta.

Remarks.— This new species resembles *A. rotaxella* Bleszynski 1965 in the shape of juxta and uncus, but in *A. longicornella* the valva has a subcostal process and the cucullus is folded, while in *A. rotaxella* the valva does not have a subcostal process and the cucullus is not folded. The new species also relates to *A. intricata* Bleszynski in the shape of the subcostal prong of the valva and uncus, but in our new species, the valva is without a sclerotized costa and the juxta has two long arms; while in *A. intricata* Bleszynski, the valva has a sclerotized costa and the juxta has two short arms. According to Wang and Song (1981) definition of Palaearctic *Ancylolomia* species groups, the new species belongs to the *A. palpella* species group.

Ancylolomia taprobanensis Zeller, 1863

Ancylolomia intricata Zeller, 1863: 12.

Specimens examined.— P. R. CHINA.— Yunnan: Lijiang, 1♂, 3 May 1980, Coll. L. Y. Wang, gen. slide no. C783 (IZAS); Yunnan: Yiliang [Likiang], 1♂, 11 Apr 1982, no collector label, gen. slide no. C909 (IZAS).

Distribution.— P. R. China (new distribution record) (Yunnan); Sri Lanka (Bleszynski, 1970); southern India (Bleszynski, 1970).

Remarks.— According to Wang & Song (1981) and their definition of Palaearctic *Ancylolomia* species groups, the species belongs to the *A. palpella* group.

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NOTES ON *EUCHLAENA* 'PECTINARIA' IN THE UNITED STATES (LEPIDOPTERA: GEOMETRIDAE: ENNOMINAE)

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ABSTRACT.— The name *Euchlaena pectinaria* (Denis & Schiffermüller, 1775) is noted to be erroneously applied to the North American geometrid species, while the American species is to be correctly called by its previously considered junior synonym, *Euchlaena deductaria* (Walker, 1860). The name "*pectinaria*" D. & S. is noted to be a junior synonym of the European species, *Odontopera bidentata* (Clerck, 1759), as already reported for many years in the European literature. *Endropia* Guenée, 1857, since *E. pectinaria* is the type-species, needs to be transferred as a junior subjective synonym of *Odontopera* Stephens, 1831.

KEY WORDS: Austria, distribution, *Endropia*, Europe, New World, nomenclature, *Odontopera*, taxonomy.

The various species of the genus *Euchlaena* comprise one of the dominant groups of American geometer moths in eastern North America. One of these, *Euchlaena pectinaria* (Denis & Schiffermüller), is among the more common species in the southeastern states. The name being used, however, is erroneously applied to the American fauna, something which has not as yet been corrected for the New World literature.

In Europe, it already has been documented for some years that the old Denis & Schiffermüller (1775) name, *Geometra pectinaria*, is a synonym of a European species, now called *Odontopera bidentata* (Clerck, 1759) (see recent catalogs like Leraut, 1997). Denis and Schiffermüller (1775) are well-known to only have dealt with Lepidoptera from near Vienna, Austria, in their compendium of the local fauna, and included no truly exotic species in their book. How the old European name "*pectinaria*" got into the American literature is somewhat of a mystery, but apparently it was thought to be the same as our American species when comparisons were first made with the named European species: this erroneous identification has been retained in our literature ever since (see Packard, 1876; Dyar, 1903). It is not clear who first made the comparison of the species involved to attach the Denis & Schiffermüller name "*pectinaria*" to the American species, but it may well have been Guenée (1857), although the usage of the name by Hübner (1796-1838 [1813], 1816-26 [1823]) and subsequent references to the species refer to this usage (see Walker, 1860). This error was then just repeated from author to author without further investigation.

Even the most recent North American catalog (Ferguson, 1983) did not correct this the "*pectinaria*" nomenclature. Likewise, for other recent American moth literature (Covell, 1984, 1999). When Rindge (1956) briefly discussed *Euchlaena*, the name applied to our species as *E. pectinaria* was simply accepted as correct. A chance investigation of why we had this European name applied to an American species finally brought forth the correct status of what we have been calling "*E. pectinaria*", in order to have the name verified for the new Florida catalog (Heppner, 2003) and not repeat the erroneous usage. All such cases should always be checked, since only a few truly Holarctic species (e.g., ranging from Siberia to Alaska, or to Labrador, etc.) are verified as such and not distinct

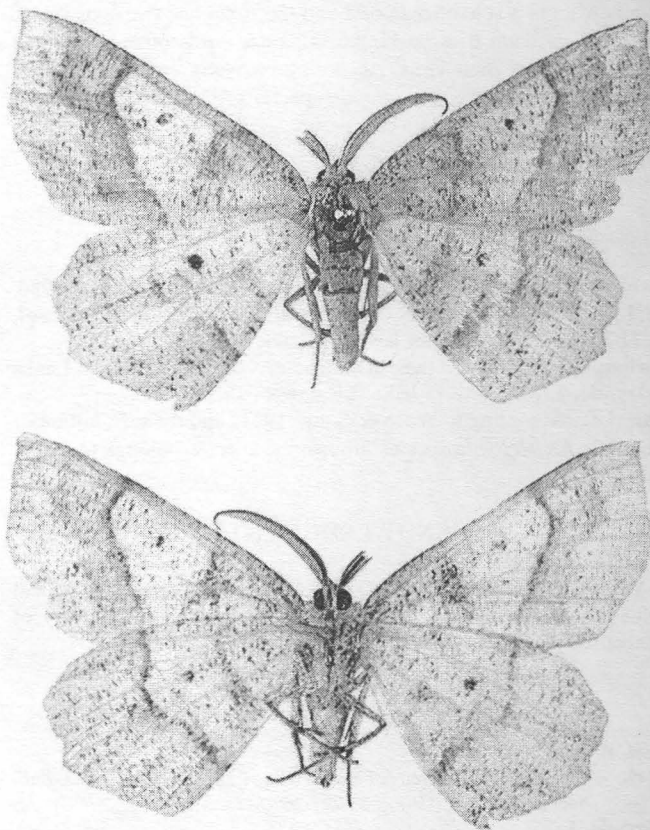


Fig. 1. Holotype of *Euchlaena deductaria* (Walker) from "East Florida" (enlarged): upper figure, dorsal side, and lower figure, ventral side (courtesy BMNH).

North America siblings. Of course, those Palearctic species that have been inadvertently introduced over the years into the Nearctic, like gypsy moths and cabbage butterflies, etc., are correctly named and need no further clarification.

Euchlaena is now considered as only a New World genus, mainly North American, with a few species also known for Central and South America (Scoble, 1999; Walker, 1860). "*E. pectinaria*" was the sole species considered as also occurring outside of the

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New World (i.e., Holarctic), and related species were thought to also be in Asia. Walker (1860) described the southeastern United States species which we are dealing with herein, as *Endropia deductaria* Walker, and this name was maintained as a synonym of the European "*E. pectinaria*" (see Rindge, 1956). This erroneous usage was perpetuated in the American literature. We now know different, since the European workers have verified that "*pectinaria*" D. & S. (1775) actually refers to the European *Odontopera bidentata*, as noted above.

Walker described his species, *E. deductaria* (Fig. 1), from "East Florida" and in the prime range of this more southerly distributed *Euchlaena*, thus, giving us an alternate name to use for this species. It is clear that the correct name for our species is *Euchlaena deductaria* (Walker). The holotype of Walker's species (Fig. 1) was examined by Linda Pitkin, of the Natural History Museum (BMNH), London, England, and found to conform with other specimens of what has been called "*pectinaria*" from the United States. Walker (1860) also noted in his original description of *E. deductaria* that it might only be a "local variety of *E. pectinaria*."

The Hübner ([1813]) sense of the name "*pectinaria*" refers to the North American species but the name is a homonym of the earlier usage by Denis & Schiffermüller (1775), if one even considers the Hübner (1813) name as validly redescribed. In checking on the Walker type in London, L. Pitkin noted also that a few other non-European species got mixed into Hübner's European work (1796-1838). She also noted that Hübner (1816-26 [1823]) included another name "*Hypagyrtis adoptivaria*" in reference to the same figure named "*pectinaria*" in his European work (Hübner, 1796-1838 [1813]). This name, however, appears to be a *nomen oblitum*, if even valid (names before 1860 that refer to published figures tend to be taken as valid even if not accompanied by any description; the figure being referred to then taken as the "description").

The works of Scoble (1999) and Walker (1854-66) both do not mention the name "*adoptivaria*" for any species of Geometridae. Unfortunately, the Scoble catalog does not list names considered invalid or infraspecific. Likewise, the Hübner ([1823]) name is not mentioned in the current North American catalog (Ferguson, 1983), or other North American literature. Thus, Hübner's "*adoptivaria*" name was dropped from the European literature and never mentioned further in American literature either, so a truly forgotten name (*nomen oblitum*) that should not be used.

The catalog entry as Ferguson (1983) had it in the genus *Euchlaena* can be emended and enhanced as follows:

6735 *deductaria* (Walker, 1860) (*Endropia*) "East Florida"
pectinaria (Hübner, [1813]) (*Geometra*), misid., "Europe" [N.Am.]
 preocc. (not Denis & Schiffermüller, 1775)
adoptivaria (Hübner, [1823]) (*Hypagyrtis*), nom. "Europe" [N.Am.]
 oblit.

More recently, the "*pectinaria*" name confusion was further muddled when the first worldwide catalog of Geometridae (Scoble, 1999) failed to correct this matter in *Euchlaena*, even though the recent European catalogs for Geometridae had already clarified the correct status of the old Denis & Schiffermüller name. Thus, the world catalog also needs correction and the names assigned as noted above. The old *Lepidopterorum Catalogus*, published in Europe from 1911-39, never did include the massively diverse Ennominae, so this no doubt also hindered the correction of the American *Euchlaena* names. The new *Lepidopterorum Catalogus* series, since 1989, and now published in North America by the Association for Tropical Lepidoptera, will document such details further when the Geometridae are treated.

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NEW LITERATURE - 2001

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