

Study on the genus *Clepsis* Guenée, 1845 from China (Tortricidae)

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Abstract. The present paper reports fifteen species of the genus *Clepsis* Guenée, 1845 from China. Among them, two species, *C. laetornata* sp. n. and *C. flavifasciaria* sp. n., are described as new to science with genital structures illustrated. Three species, *C. celsana* (Rennel), *C. neglectana* (Herrich-Schäffer) and *C. luctuosana* (Rebel), are newly recorded from the country. The female of *C. aba* Razowski is described for the first time to science. Key to all the known Chinese species is given based on external characters and male genital characters respectively.

Key words. Lepidoptera, Tortricidae, *Clepsis*, new species, China.

Introduction

Clepsis Guenée, 1845 is a large genus of the subfamily Tortricinae, tribe Archipini. To date about 112 species have been reported worldwide, including sixty-four species from the Palearctic Region, ten species from the Nearctic Region, ten from the Oriental Region, thirty-six from the Neotropical Region and one from the Afrotropical Region. In Asia, four species are recorded from Korea (Byun 1998), six from Japan (Kawabe 1982), two from Nepal (Diakonoff 1976), one from northern Sumatra (Diakonoff 1983), four from Taiwan (Kawabe, 1992b) and two from the northern part of China (Liu 1977). In China a total of ten species of the genus *Clepsis* have been recorded so far (Razowski 1979a, 1979b; Kawabe 1992b). In this paper two new species, *Clepsis laetornata* sp. n. and *Clepsis flavifasciaria* sp. n., are added to the world fauna, three species are newly recorded from China and the female of *Clepsis aba* Razowski, 1979 is described for the first time. Distributions of Chinese species of *Clepsis* are shown in Fig. 1. The type specimens are deposited in the Department of Biology, Nankai University, Tianjin, China. The research was supported by National Natural Science Foundation of China (No. 39960017).

Clepsis Guenée, 1845

Clepsis Guenée, 1845: 168. Type species: *Tortrix rusticana* Hübner, [1799].

Smicrotes Clemens, 1860: 355. Type species: *Smicrotes peritana* Clemens, 1860.

Siclobola Diakonoff, 1947: 25. Type species: *Tortrix unifasciana* Duponchel, 1843.

Pseudamelia Obraztsov, 1954: 196. Type species: *Tortrix unicolorana* Obraztsov, 1954.

Mochlopyga Diakonoff, 1955: 44. Type species: *Tortrix humana* Meyrick, 1912.

This genus is well identified by the following characters: transtilla absent, labis with strong sclerotized disc and its upper edge armed with thorns, valva elongate with more or less distinctly differentiated terminal part, sacculus without free termination in male genitalia.

The genus *Clepsis* was divided into seven species-groups by Razowski (1979a). According to his system, *C. laetornata* sp. n. should belong to the group of *C. rurinana* and *C. flavifasciaria* sp. n. to the group of *C. unicolorana*.

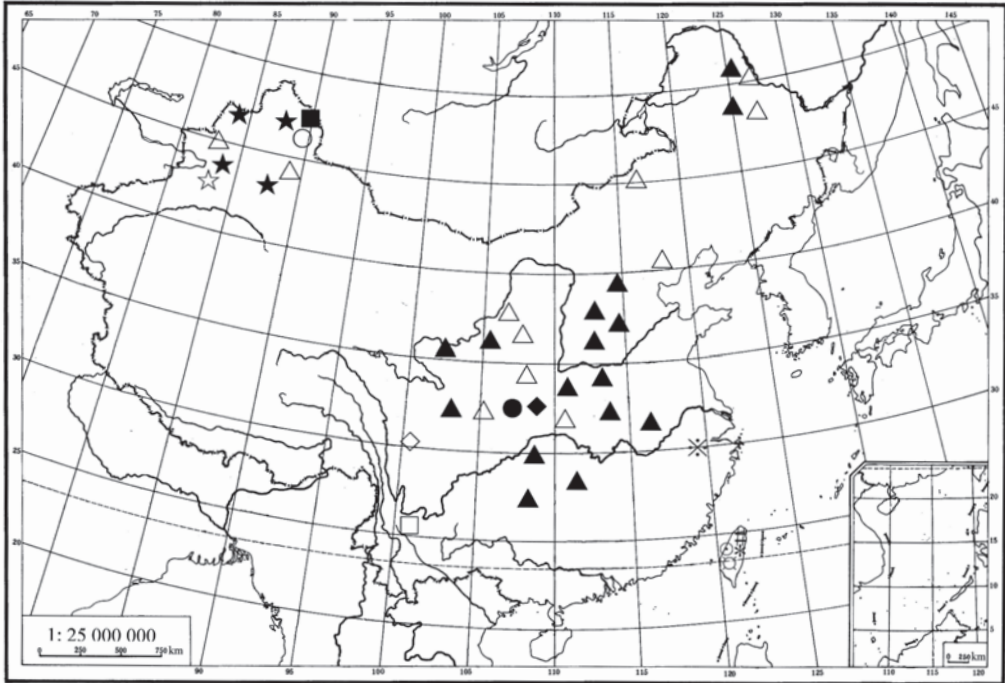


Fig. 1. Distributional map of *Clepsis* species in China. Legend: □ *C. laetornata* sp. n.; ◆ *C. flavifasciaria* sp. n.; ● *C. aba* Razowski; ☆ *C. celsana* (Rennel); ★ *C. neglectana* (Herrich-Schäffer); ○ *C. luctuosana* (Rebel); ▲ *C. rurinana* (Linnaeus); △ *C. pallidana* (Fabricius); ◇ *C. melissa* (Meyrick); ■ *C. aerosana* (Lederer); ※ *C. zeuglodon* Razowski; * *C. razowskii* Kawabe; ⊙ *C. owadai* Kawabe; # *C. hohanshanensis* Kawabe; ◻ *C. provocata* (Meyrick)

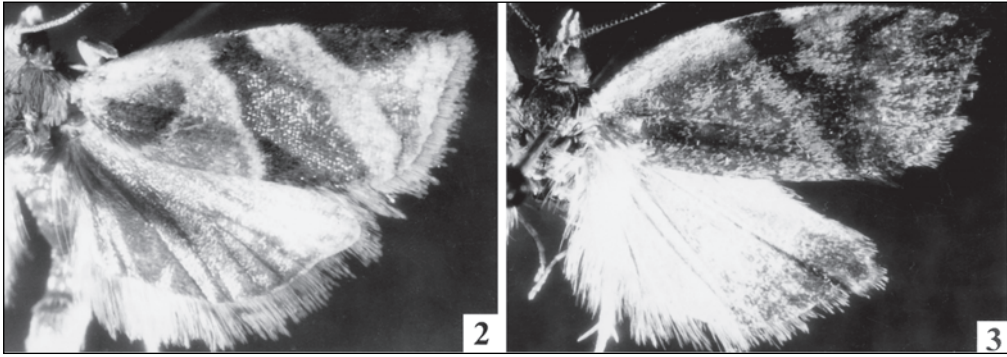
Key to the Chinese species of *Clepsis* based on external characters

- | | |
|--|---------------------------------|
| 1. Forewing with many yellowish brown streaks. | <i>C. razowskii</i> |
| – Forewing without yellowish brown streaks. | 2 |
| 2. Male forewing with costal fold. | 3 |
| – Male forewing without costal fold. | 12 |
| 3. Hindwing yellow, termen black; costal edge of underside of forewing with brightly yellowish fascia. | <i>C. flavifasciaria</i> sp. n. |
| – Hindwing pale gray or whitish. | 4 |
| 4. Forewing with ground color yellow, two parallel fasciae present. | <i>C. pallidana</i> |
| – Forewing with ground color brownish or pale gray. | 5 |
| 5. Forewing with costal fold very slender and short. | <i>C. celsana</i> |
| – Forewing with costal fold moderately broad. | 6 |
| 6. Basal blotch large or distinct. | 7 |
| – Basal blotch small or absent. | 8 |
| 7. Front white; basal blotch, median fascia and subapical blotch very distinct, brown. | <i>C. laetornata</i> sp. n. |
| – Front yellowish ochreous; median fascia strongly broadened medially, rust brown. | <i>C. aba</i> |

8. Forewing with ground color brownish yellow. 9
 – Forewing with ground color pale gray or creamy. 10
 9. Median fascia broken, not reaching posterior margin. *C. owadai*
 – Median fascia reaching posterior margin, with one line parallel to median fascia. *C. rurinana*
 10. Forewing distinctly expanded terminally, median fascia narrow. *C. melissa*
 – Forewing indistinctly expanded terminally. 11
 11. Labial palpus whitish; head gray; subapical blotch large and distinct. *C. provocata*
 – Labial palpus ochreous with brown scales; head brownish; subapical blotch indistinct. *C. zeuglodon*
 12. Forewing with ground color pale. 13
 – Forewing with ground color dark. 14
 13. Forewing whitish, with spots among the pattern. *C. luctuosana*
 – Forewing silvery gray, without spots among the pattern. *C. hohuanshanensis*
 14. Forewing yellowish creamy, subapical blotch reaching apex. *C. aerosana*
 – Forewing brownish, subapical blotch small or not obvious, median fascia strongly broadened medially. *C. neglectana*

Key to the Chinese species of *Clepsis* based on the male genital characters

1. Aedeagus smooth, without process or denticle. 2
 – Aedeagus with process or denticle. 6
 2. Uncus strong and thick. 3
 – Uncus slender, gradually tapering terminally; sacculus with ventral margin smooth. *C. provocata*
 3. Valva short, ovate; labis with two broad dentate lobes at both sides. *C. owadai*
 – Valva not ovate. 4
 4. Uncus straight apically, valva short, without lobated terminal part. *C. luctuosana*
 – Uncus rounded apically, valva elongate, with lobated terminal part. 5
 5. Uncus parallel laterally, rounded apically; aedeagus short and narrow. *C. razowski*
 – Uncus distinctly broadened at middle, tapering terminally, aedeagus long and slender. *C. laetornata* sp. n.
 6. Aedeagus with dense ventral and dorso-lateral denticles, provided with long subterminal process on the left side; uncus broad and rounded apically. *C. flavifasciaria* sp. n.
 – Aedeagus without dense ventral denticles. 7
 7. Aedeagus with small dent. 8
 – Aedeagus with large process. 11
 8. Valva elongate, with lobated terminal part. 9
 – Valva somewhat ovate, without lobated terminal part. 10
 9. Uncus broad, tapering from before middle. *C. rurinana*
 – Uncus broad at base, slender in distal half; sacculus with dentate ventral prominence. *C. melissa*
 10. Uncus long; aedeagus provided with one lateral and one ventral thorn. *C. zeuglodon*
 – Uncus broad, aedeagus provided with some subterminal teeth laterally. *C. hohuanshanensis*
 11. Aedeagus with long process on the right side. *C. aba*
 – Aedeagus with process on the left side. 12
 12. Valva narrow, sacculus with distinct ventral prominence or denticle. 13
 – Valva broad, sacculus without ventral denticle. 14
 13. Uncus expanded from base to distal; ventral edge of sacculus with sharp prominence situated submedially. *C. neglectana*
 – Uncus tapering postmedially, ventral edge of sacculus with 3–4 acute denticles; aedeagus thick, with two processes, left one larger than right one. *C. celsana*
 14. Uncus straight apically; aedeagus with long ventro-lateral process situated on the left side. *C. aerosana*
 – Uncus rounded apically; aedeagus with subterminal denticle situated on the left side. *C. pallidana*



Figs. 2–3. Adults of *Clepsis* spp.: 2. *Clepsis laetornata* sp. n. 3. *Clepsis flavifasciaria* sp. n.

***Clepsis laetornata* sp. n.**

(Figs. 2, 4)

Material. Holotype: ♂ China: Weishan County (25.2 °N 100.3 °E), Yunnan Province, 2200 m, 20 Jul. 2001, leg. Houhun Li and Xinpu Wang, genitalia slide no. WXP02182. Paratypes: 4♂, same data as holotype.

Description. Male (Fig. 2). Length of forewing 7.0–8.0 mm. Labial palpus 1.5 times shorter than diameter of compound eye; basal portion pale brownish, terminal portion of the second and the third segments whitish, third segment small, concealed in the terminal of second. Antenna slender, outer side whitish, inner side yellowish brown. Front white. Vertex with rough scales, yellowish brown. Thorax yellowish brown. Tegula developed. Forewing with ground color pale brown; basal blotch, median fascia and subapical blotch dark brown; basal portion of costal edge yellow-brown; costal fold broad, reaching median fascia; apex blunt; termen oblique; basal blotch finger-shaped; anterior portion of median fascia narrow, posterior portion broad; subapical blotch converse triangular; fringes with basal part pale white, distal part dark brown. Hindwing pale gray, termen somewhat yellow. Legs whitish, outer side of tarsi of foreleg, midleg and outer spur of midleg dark brown. Dorsal surface of abdomen pale brown, ventral surface pale yellow.

Genitalia ♂ (Fig. 4). Tegumen broad. Uncus strong, distinctly broadened at middle, tapering terminally, rounded apically. Socius small. Lateral sclerite broadened. Arm of gnathos strong, rounded apically. Valva oblong, terminal portion with lobe. Sacculus narrow, slightly convex near base. Median part of labis broad and spined, terminal portion slender. Aedeagus thin, apically rounded, with three large cornuti in vesica.

Female. Unknown.

Diagnosis. The new species is similar to *Clepsis melissa* (Meyrick, 1908), but differs from the latter in the following characters: forewing with ground color light brown; uncus distinctly broadened at middle; sacculus without ventral prominence; aedeagus without ventro-lateral denticle. This species is also closely allied to *Clepsis rurinana* (Linnaeus), but can be distinguished from it by basal blotch on the surface of the forewing very large and distinct; uncus shorter and much stronger than that of the latter species; aedeagus much slender, laterally without subterminal denticle.

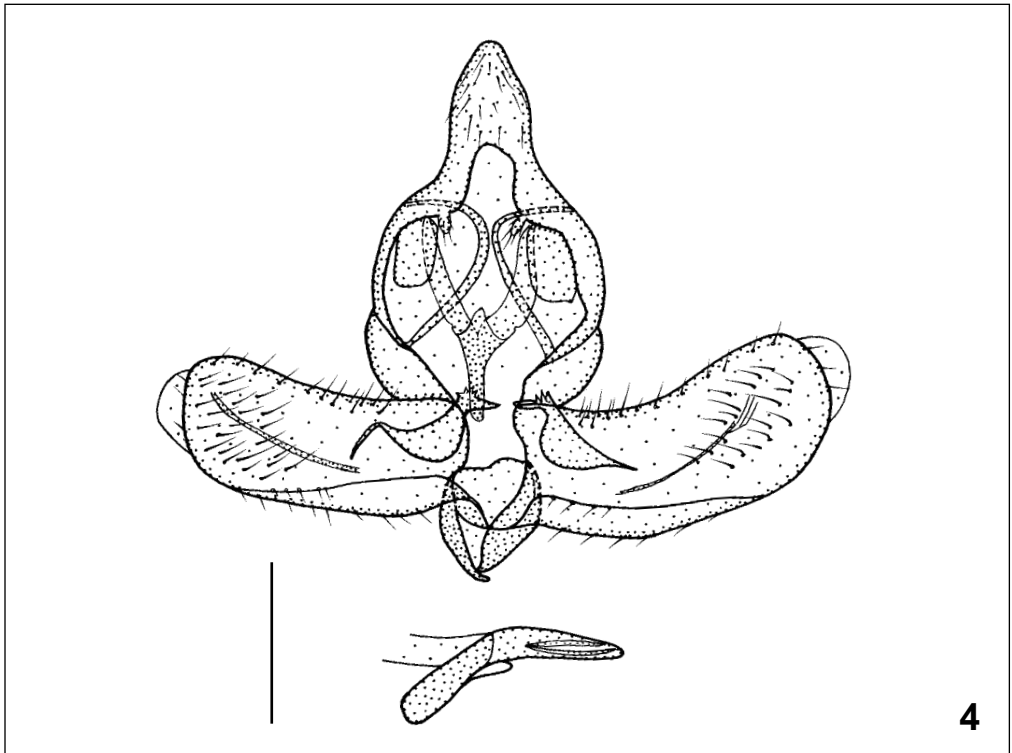


Fig. 4. Male genitalia of *Clepsis laetornata* sp. n. (slide no. WXP02182)

Derivatio nominis. The specific name comes from the Latin word, *laetus* (distinct) and *ornatus* (ornate), corresponding to the distinct basal blotch, median fascia and subapical blotch in the forewing.

***Clepsis flavifasciaria* sp. n.**

(Figs. 3, 5, 6)

Material. Holotype: ♂, China, Ningshan County (33.3 °N 108.3 °E), Shaanxi Province, 1650 m, 28 May 1992, leg. Houhun Li, (slide no. WXP02186). Paratypes: 1♂, 1♀, same data as holotype.

Description. Male (Fig. 3). Length of forewing 9.5 mm. Labial palpus 1.5 times as long as diameter of the compound eye; basal segment whitish; second segment long, pale brown; third segment small, whitish. Antenna thick, black, outer side with white scales, inner side ciliated. Front whitish. Vertex with rough scales, yellowish brown. Tegula developed. Forewing blackish brown, costal margin distinctly curved outwards to middle; brightly yellowish fascia below costal edge reaching subapical blotch; costal fold reaching 1/3 of costa, basally narrow, medially broad; apex pointed; termen distinctly oblique; basal blotch ill-defined; median fascia black, band-like, its anterior portion as wide as posterior portion; subapical blotch semicircular, black; fringes yellowish brown. Hindwing yellow, termen black; fringes pale brown. Tarsi of foreleg and midleg pale brown. Dorsal surface of abdomen pale brownish, ventral surface pale yellow.

Female. Length of forewing 10.5 mm, with yellow fascia below costal edge. Other characters same as male.

Genitalia ♂ (Fig. 5). Tegumen broad; uncus strong, with basal half narrow, somewhat parallel laterally, distal half expanded, rounded apically. Socius vestigial. Arm of gnathos long and slender, terminal narrow. Valva narrow, weakly tapering terminally. Sacculus narrow, slightly convex before middle of ventral edge. Median part of labis broad, terminal part weakly tapering, dentate. Aedeagus large, densely with ventral and dorso-lateral denticles, provided with long subterminal process on the left side; no cornuti in vesica.

Genitalia ♀ (Fig. 6). Apophyses posterior almost as long as apophyses anterior, with a dent near base, highly sclerotized. Sterigma cup-shaped. Antrum long, sclerotized. Ductus bursae thick, without cestum. Signum large, horn-shaped, inner side with small denticles.

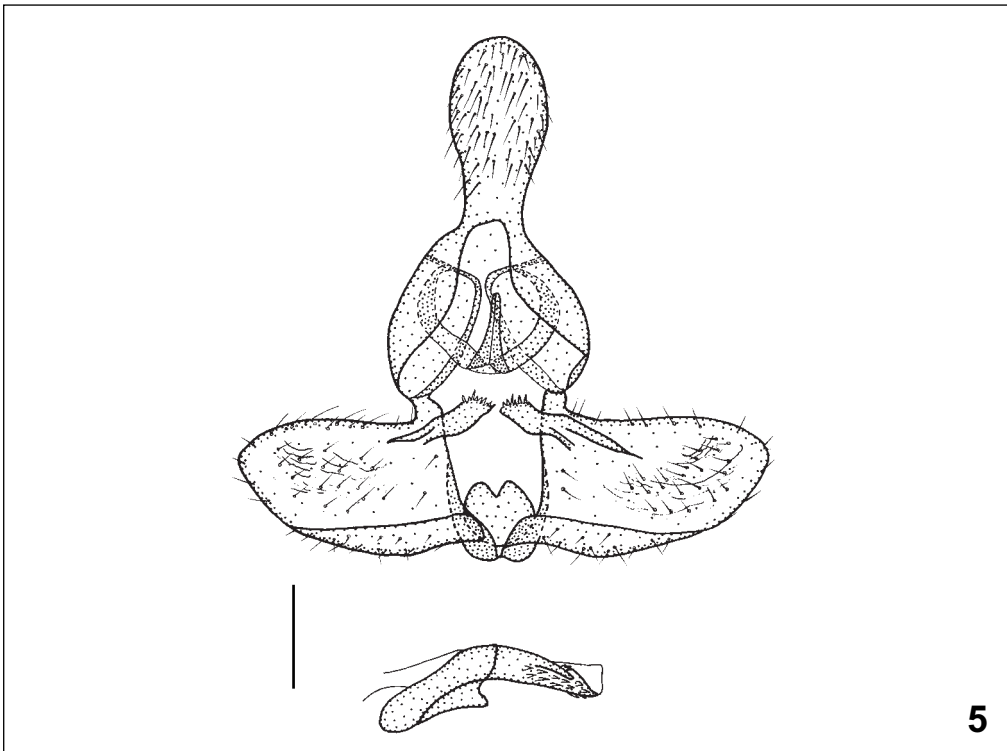
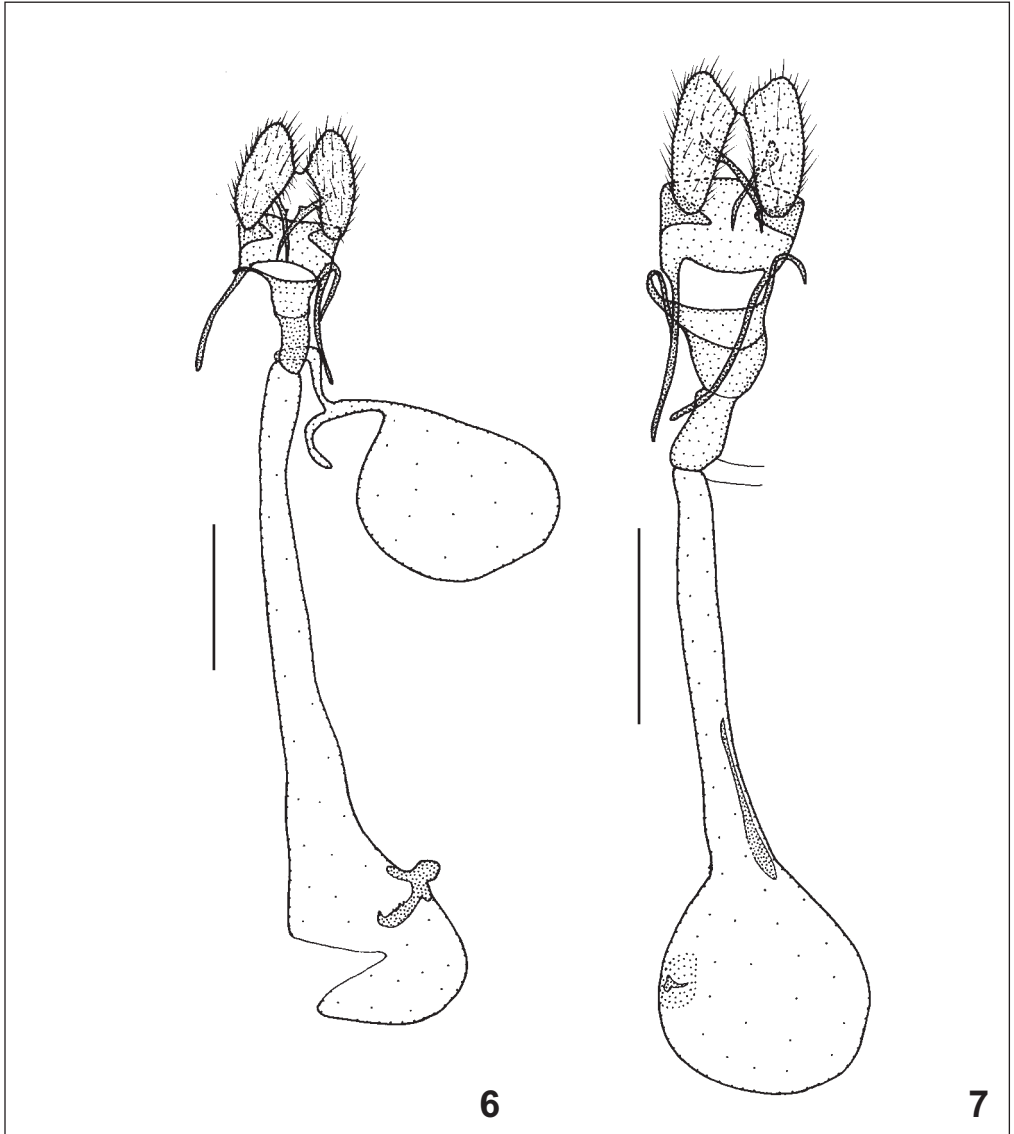


Fig. 5. *Clepsis flavifasciaria* sp. n., male genitalia (slide no. WXP02186).

Diagnosis. This new species is closely allied to *Clepsis unicolorana* (Duponchel, 1835) in male genitalia, but can be separated from the latter by the following character: in male genitalia, sacculus narrow; aedeagus densely with ventral and dorso-lateral denticles, provided with long subterminal process on the left side. In female genitalia, signum horn-shaped.

Derivatio nominis. The specific name is derived from the Latin word, *flavus* (yellow) and *fasciarius* (fascia), indicating the brightly yellowish fascia below costal edge in the forewing.



Figs. 6–7. Female genitalia. 6. *Clepsia flavifasciaria* sp. n. (slide no. WXP02187). 7. *Clepsia aba* (slide no. WXP02165).

***Clepsia aba* Razowski, 1979a: 147, figs. 129, 130**

(Fig. 7)

Material. China: 5♂, 3♀, Ningshan County, Shaanxi Province, 1650 m, 15–20 June 1987, leg. Houhun Li, (slide no. WXP02165).

Description. Length of forewing 11.0–12.0 mm.

Genitalia ♀ (Fig. 7). Papilla analis broad; apophyses posterior about 1.5 times as long as apophyses anterior, heavily sclerotized. Sterigma broad. Antrum long, cylindrical, thick near ductus bursae. Ductus bursae thick. Cestum 1/3 as long as ductus bursae. Signum horn-shaped, small.

Remarks. Razowski (1979) did not provide the description of the female in his paper. During our study, we found the female and described it here for the first time.

***Clepsis celsana* (Kennel, 1919: 52, pl. 2 figs. 2, 3) (*Cacoecia*)**

Material. China: 3♂, Gongliu County, Xinjiang Aut. Reg., 1100 m, 6 June 1994, leg. Xincheng An.

Remarks. The species is treated by Razowski (1979: 146, figs. 125–128, 213) and transferred to *Clepsis*. It is here recorded for the first time from China (Xinjiang).

***Clepsis neglectana* (Herrich-Schäffer, 1851: 167) (*Tortrix Lozotaenia*)**

Tortrix flavana Duponchel, 1834: 87, pl. 239, fig. 6.

Heterogonomon betulifoliata Lederer, 1859: 248.

Tortrix stiolana Ragonot, 1879: CXXXII.

Tortrix xylotoma Meyrick, 1891: 13.

Tortrix severana Kennel, 1901: 227.

Cacoecia delibatana Rothschild, 1912: 27, 49.

Tortrix dorana Kennel, 1919: 60, pl. 2, fig. 12, pl. 4, fig. 1b.

Cacoecia acclivana Zerny, 1933: 108, pl. 1, fig. 11.

Material. China: 11♂, Gongliu County, Xinjiang Aut. Reg., 1100 m, 16 Jul. 1994, leg. Xincheng An; 1♀, Beitun County, Xinjiang Aut. Reg., 530 m, 22 Jul. 1994, leg. Houhun Li; 2♂, Ürümqi City, Xinjiang Aut. Reg., 920m, 8 Aug. 1994, leg. Houhun Li; 1♀, Altay County, Xinjiang Aut. Reg., 900 m, 23 Jul. 1994, leg. Houhun Li.

Remarks. The species is treated by Razowski (1979a: 161, figs. 162–168, 225) and transferred to *Clepsis*. It is known to occur in Central Asia, Middle East, Europe and is here recorded for the first time from China (Xinjiang).

***Clepsis luctuosana* (Rebel, 1914: 272, pl. 4 fig. 8) (*Cnephasia*)**

Material. China: 1♂, Altay County, Xinjiang Aut. Reg., 900 m, 23 Jul. 1994, leg. Houhun Li.

Remarks. The species is treated by Razowski (1979a: 124, figs. 63, 64) and transferred to *Clepsis*. It is known to occur in Central Asia (Tian shan) and here recorded for the first time from China (Xinjiang).

***Clepsis rurinana* (Linnaeus, 1758: 823) (*Phalaena Tortrix*)**

Phalaena Tortrix modeeriana Linnaeus, 1761: 347.

Phalaena Tortrix angulana Villers, 1789: 417, 612.

Cacoecia idana Kennel, 1919: 51, pl. 2, fig. 1.

Tortrix liotoma Meyrick, 1936: 60.

Material. 3♂, Shexian County, Hebei Province, 700 m, 2–3 Jul. 2000, leg. Haili Yu; 4♂, 2♀, Yixian County, Hebei Province, 150 m, 19 Jul. 2000, Haili Yu leg.; 1♂, Laiyuan County, Hebei Province, 1300 m, 20 Jul. 2000, leg. Haili Yu; 4♂, 1♀, Jingxing County, Hebei Province, 1200 m, 23–26 Jul. 2000, leg. Haili Yu; 1♂, Neiqiu County, Hebei Province, 670 m, 28 Jul. 2000, leg. Haili Yu; 1♂, Harbin City,

Heilongjiang Province, 150 m, 23 Jul. 1997, leg. Houhun Li; 6♂, Heihe City, Heilongjiang Province, 120 m, 25 Jul. 1997, leg. Houhun Li; 2♀, Wudalianchi, Heilongjiang Province, 270 m, 30 Jul. 1997, leg. Houhun Li; 10♂, Tianmushan Mt., Zhejiang Province, 800 m, 19 Aug. 1999, leg. Houhun Li; 1♂, Yuexi County, Anhui Province, 8 Aug. 1995, leg. Xiangfu Hu; 6♂, Xinyang City, Henan Province, 11 Jul. 1997, leg. Houhun Li; 16♂, 1♀, Neixiang County, Henan Province, 650 m, 12 Jul. 1998; 2♂, 2♀, Shanxian County, Henan Province, 1 Jun. 2000, leg. Haili Yu; 23♂, 8♀, Jiyuan County, Henan Province, 650 m, 3–7 Jun. 2000, leg. Haili Yu; 2♂, Dengfeng County, Henan Province, 800 m, 9 Jun. 2000, leg. Meicai Wei; 10♂, 4♀, Lichuan City, Hubei Province, 1100 m, 2 Aug. 1999, leg. Houhun Li; 1♂, Hefeng County, Hubei Province, 1260 m, 18 Jul. 1999, leg. Houhun Li; 5♂, Sangzhi County, Hunan Province, 1250 m, 13 Aug. 2001, leg. Houhun Li and Xinpu Wang; 29♂, 10♀, Fanjingshan Mt., Guizhou Province, 1300 m, 1 Aug. 2001, leg. Houhun Li and Xinpu Wang; 30♂, Chengxian County, Shaanxi Province, 1000 m, 9–12 Jun. 1993, leg. Houhun Li; 11♂, 4♀, Louguantai, Shaanxi Province, 650 m, 11–15 May 1995, leg. Aisihaer; 10♂, 2♀, Yuzhong County, Gansu Province, 2120 m, 30–31 Jul. 1993, leg. Houhun Li; 4♂, 2♀, Kangxian County, Gansu Province, 2–5 Jun. 1995, leg. Aisihaer; 2♂, Wenxian County, Gansu Province, 1950 m, 4–5 Jul. 2001, leg. Houhun Li and Xinpu Wang; 5♂, 4♀, Xunhua County, Qinghai Province, 2240 m, 13–15 Jul. 1995, leg. Houhun Li; 3♂, 4♀, Jingyuan County, Ningxia Aut. Region, 13–17 Jul. 1983.

Remarks. The species is treated by Razowski (1979a: 129, figs. 81, 82, 198) and transferred to *Clepsis*. It is known from China (Hebei, Heilongjiang, Anhui, Zhejiang, Henan, Hubei, Hunan, Guizhou, Shaanxi, Gansu, Qinghai and Ningxia), Mongolia, Korea, Japan, Indian, Nepal, Afghanistan, Siberia and Europe.

Clepsis pallidana (Fabricius, 1776: 292) (*Pyralis*)

[*Tortrix*] *strigana* Hübner, [1799]: pl. 22, fig. 141.

Tortrix Lozotaenia stramineana Herrich-Schäffer, 1851: 163.

Tortrix quinque maculana Bremer, 1864: 90, pl. 7, fig. 23.

Tortrix cesareana Joannis, 1891: LXXXIII.

Tortrix districta Meyrick, 1920: 342.

Material. 5♂, 6♀, Tianjin, 31 May–2 Jul. 1965; 8♂, 1♀, Jixian County, Tianjin, 550 m, 23–25 Jun. 2001, leg. Houhun Li; 1♂, Zunhua City, Hebei Province, 120 m, 7 Jul. 2001, leg. Yanli Du; 1♀, Dongwuzhu Banner, Inner Mongolia, 920 m, 8 Aug. 1997, leg. Houhun Li; 1♂, Heihe City, Heilongjiang Province, 120 m, 25 Jul. 1997, leg. Houhun Li; 18♂, 8♀, Yangling, Shaanxi Province, 450 m, Date from 3 May 1985 to 31 Aug. 1995, leg. Houhun Li; 2♂, Xunyi County, Shaanxi Province, 30 May 1985, leg. Houhun Li; 4♂, Chengcheng County, Shaanxi Province, 10–11 Aug. 1993, leg. Houhun Li; 3♂, Danfeng County, Shaanxi Province, 28–29 May 1994, leg. Jin Zhou; 1♂, 1♀, Kangxian County, Gansu Province, 1200 m, 2–3 Jun. 1995, leg. Aisihaer; 7♂, 3♀, Zhongning County, Ningxia Aut. Reg., 26 Jul. 1993, leg. Houhun Li; 2♂, Ürümqi, Xinjiang Aut. Reg., 920 m, 8 Aug. 1994, leg. Houhun Li; 1♀, Jinghe County, Xinjiang Aut. Reg., 23 Jul. 1994, leg. Duoliken.

Remarks. The species is treated by Razowski (1979a: 149, figs. 133–135, 215) and transferred to *Clepsis*. It is known to occur in China (Tianjin, Hebei, Inner Mongolia, Heilongjiang, Shaanxi, Gansu, Ningxia, Xinjiang), Mongolia, Korea, Japan, Asia Minor, Russia and Europe.

Clepsis melissa (Meyrick, 1908: 613) (*Capua*)

Capua epiclintes Meyrick, 1928: 452.

Material. China: 1♂, Kangding County, Sichuan Province, 2400 m, 8 Jul. 2001, leg. Houhun Li and Xinpu Wang.

Remarks. The species is treated by Diakonoff (1976: 98) and Razowski (1979a: 131, figs. 83–87, 199, 200) and transferred to *Clepsis*. It is known to occur in China (Sichuan, Yunnan), Nepal and India.

***Clepsis aerosana* (Lederer, 1853: 383, pl. 7, fig. 1) (*Tortrix*)**

Remarks. The species is treated by Razowski (1979a: 113, figs. 24–29, 183) and transferred to *Clepsis*. It is known to occur in China (Xingjiang), Mongolia, Russia (Razowski 1993).

***Clepsis zeuglodon* Razowski, 1979a: 165, figs. 176–178**

Remarks. The species is known from China (Zhejiang) (Razowski 1979a).

***Clepsis razowskii* Kawabe, 1992: 178, figs. 14, 20, 21, 30**

Remarks. The species is known from China (Taiwan) (Kawabe 1992).

***Clepsis owadai* Kawabe, 1992: 180, figs. 15, 22, 31**

Remarks. The species is known from China (Taiwan) (Kawabe 1992).

***Clepsis hohaunshanensis* Kawabe, 1985: 5, figs. 7, 8, 9, 15**

Remarks. The species is known from China (Taiwan) (Kawabe 1992).

***Clepsis provocata* (Meyrick, 1912: 1) (*Catamacta*)**

Remarks. The species is treated by Razowski (1979b: 137, figs. 62, 93) and transferred to *Clepsis*. It is known from China (Taiwan), India (Assam) (Razowski 1979b).

References

- Bremer, O. 1864. Lepidopteren Ost-Sibiriens, insbesondere des Amur-Landes, gesammelt von den Herren G. Radde, R. Maack und P. Wulffius. – Mémoires de l'Académie des Sciences de St.-Pétersbourg (ser. 7) **8** (1): 1–104, pls. 1–8.
- Byun, B. K., Y. S. Bae & K. T. Park 1998. Illustrated Catalogue of Tortricidae in Korea (Lepidoptera). – In: K. T. Park (ed.), Insects of Korea [2], 317 pp. Korea.
- Clarke, J. F. G. 1958. Catalogue of the type specimens of Microlepidoptera in the British Museum (Natural History) described by Edward Meyrick, Vol. 3, 599 pp. London.
- Clemens, B. 1860. Contributions to American Lepidopterology. No. 6. – Proceedings of the Academy of Natural Sciences of Philadelphia **12**: 345–362.
- Diakonoff, A. 1947. Microlepidoptera from Madagascar. – Mémoires de l'Institut Scientifique de Madagascar (A) **1**(1): 22–30, figs. 8.
- Diakonoff, A. 1955. Lepidoptera of the Deutschen Nepal-Expedition. – Veröffentlichungen der Zoologischen Staatssammlung München **8**: 43–50, fig. I, pls. 24–26.
- Diakonoff, A. 1976. Tortricoidea from Nepal, 2. – Zoologische Verhandlungen **144**: 1–145.
- Diakonoff, A. 1983. Tortricidae from Atjeh, Northern Sumatra (Lepidoptera). – Zoologische Verhandlungen **204**: 1–132.
- Duponchel, P.A.J. 1834. Nocturnes. – In: J.B. Godart & P.A.J. Duponchel, Histoire Naturelle des Lépidoptères ou Papillons de France **9**: 1–627, pls. CCXXXVII–CCLXVI. Paris, Mequignon-Marvis.
- Fabricius, J.C. 1776. Genera insectorum eorumque characteres naturales secundum numerum, figuram, situm et proportionem omnium partim oris adiecta mantissa specierum nuper detectum.. 310 pp. Cologne
- Guenée, M.A. 1845. Essai sur une nouvelle classification des Microlépidoptères et catalogue des espèces européennes connues jusqu'à ce Jour. – Annales de la Société Entomologique de France (sér. 2) **3**: 105–192, 297–344.

- Herrich-Schäffer, G.A.W. (1847–) 1849 (–1855). Systematische Bearbeitung der Schmetterlinge von Europa, zugleich als Text, Revision und Supplement zu Jakob Hübner's Sammlung europäischer Schmetterlinge. 4: Die Zünsler und die Wickler. – [1]–2–288, (Index) [1]–2–48, pl. 1–23 (Pyralididae) + 1–59 (Tortricidae).
- Hübner, J. [1799]. Tortrices. – Sammlung europäischer Schmetterlinge 7: pls. 1–29.
- Joannis, J. 1891. [Untitled.] Bulletin de la Société entomologique de France 1891: LXXIX–LXXXIV.
- Kawabe, A. 1982. Tortricidae. – In: H. Inoue et al. (eds.), Moths of Japan. 1: 966 pp, 2: 522 pp. Tokyo.
- Kawabe, A. 1985. Notes on the Tortricidae (Lepidoptera) from Taiwan, 1. – Tinea 12 (1): 1–10.
- Kawabe, A. 1992. Notes on the Tortricidae (Lepidoptera) from Taiwan, 4. – Tinea 13 (17): 178–181.
- Kawabe, A. et al. 1992b. Title. – In: J. B. Heppner & H. Inoue (eds.), Lepidoptera of Taiwan 1 (2): Checklist. 276 pp. Gainesville.
- Kennel, J. 1901. Neue Wickler des palaeartischen Gebietes. – Deutsche entomologische Zeitschrift Iris 13 (1900) 2: 205–305.
- Kennel, J. 1919. Mittelasiatische und andere neue Tortriciden. – Mitteilungen der Münchener Entomologischen Gesellschaft 8 (1917–1918): 50–95, pls. 2–4.
- Lederer, J. 1853. Lepidopterologisches aus Sibirien. – Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien 3 (Abhandlungen): 351–386, pls. 1–7.
- Lederer, J. 1859. Classification der europäischen Tortriciden. – Wiener Entomologische Monatschrift 3: 241–255.
- Linnaeus, C. 1758. Systema naturae per regna tria naturae, secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis, 1 [10th edition]: 1–824.
- Linnaeus, C. 1761. Fauna Svecica. 1–560. Laurentii Salvii, Stockholmiae.
- Liu, Y. Q. J. W. Bai 1977. Economic Entomology of China, 11, Lepidoptera, Tortricidae. 93 pp. Beijing.
- Meyrick, E. 1891. A fortnight in Algeria, with descriptions of new Lepidoptera. – Entomologist's Monthly Magazine 27: 9–13.
- Meyrick, E. 1908. Descriptions of Indian Micro-Lepidoptera VII. – Journal of the Bombay Natural History Society 18: 613–638.
- Meyrick, E. 1912. Exotic Microlepidoptera. 1: 1–64. – [London], Taylor & Francis.
- Meyrick, E. 1920. Exotic Microlepidoptera. 2: 289–384. – [London], Taylor & Francis.
- Meyrick, E. 1928. Exotic Microlepidoptera. 3: 449–464. – [London], Taylor & Francis.
- Meyrick, E. 1936. Exotic Microlepidoptera. 5: 1–64. – [London], Taylor & Francis.
- Mutuura, A. 1980. A new species of *Clepsis* from the Northern Yukon Territory (Lepidoptera: Tortricidae). – Canadian Entomologist 112: 1071–1073.
- Obraztsov, N.S. 1954. Die Gattungen der palaearktischen Tortricidae. I Allgemeine Aufteilung der Familie und die Unterfamilien Tortricinae und Spargnothinae. I. Fortsetzung. – Tijdschrift voor Entomologie 97(3): 141–231, figs. 1–248.
- Ragonot, E.L. 1879. [Untitled.] Bulletin de la Société entomologique de France 1879: CXXXII–CXXXIII.
- Razowski, J. 1979a. Revision of the *Clepsis* Guenée (Lepidoptera, Tortricidae). Part I. – Acta zoologica cracoviensia 23 (9): 101–198.
- Razowski, J. 1979b. Revision of the *Clepsis* Guenée (Lepidoptera, Tortricidae). Part II. – Acta zoologica cracoviensia 24 (2): 113–152.
- Razowski, J. 1987. The Genera of Tortricidae (Lepidoptera). Part II: Palaeartic Childanotinae and Tortricinae. – Acta zoologica cracoviensia 30 (11): 141–355.
- Razowski, J. 1993. The catalogue of the species of Tortricidae (Lepidoptera). Part II: Palaeartics, Spargenothini, Euliini, Ramapesiini and Archipini. – Acta zoologica cracoviensia 35 (3): 665–703.
- Razowski, J. 2001. Die Tortriciden (Lepidoptera, Tortricidae) Mitteleuropas. 319 pp. Bratislava.
- Rebel, H. 1914. Ueber eine Mikrolepidopterenausbeute aus dem westlichen Thian-Shan-Gebiet. – Deutsche entomologische Zeitschrift Iris 28: 271–278, pl. 4.
- Rothschild, L.W. 1912. Adatok Magyarország lepkefaunájához. – Rovartani Lapok 19: 21–29.
- Villers, C. J. 1789. Caroli Linnaei Entomologia, Faunae Suecicae descriptionibus aucta; D.D. Scopoli, Geoffroy, de Geer, Fabricii, Schrank, ec. Speciebus vel in Systemate non enumerates, vel nuperrime detectis, vel speciebus Galliae Australis locupletata, generum specierumque rariorum iconibus ornata; curante & augente Carolo de Villers. 2: xvi+656 s., 6 Taf. Lugduni.
- Zerny, H. 1933. Lepidopteren aus dem nördlichen Libanon. – Deutsche entomologische Zeitschrift Iris 47: 60–109, pl. 1.