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NOTES ON THREE SPECIES OF THE GENUS
CELYPHOIDES OBRAZTSOV FROM
JAPAN, WITH DESCRIPTION
OF A NEW SPECIES
(Lepidoptera : Tortricidae)*

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This paper deals with three species of the genus *Celyphoides* Obraztsov occurring in Japan: one is new to science and the rest new to Japan.

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1. *Celyphoides cespitanus* (Hübner)

(Fig. 1: A & Fig. 2: A, B)

Olethreutes cespitana Hübner, 1822, Syst. Verz.: 59; Heinrich, 1926, Bull. U.S. Nat. Mus. 132: 179, pl. 40, f. 245, & pl. 74, f. 434.

Sericoris cespitana: Heinemann, 1869, Schmett. Deuts. Schw., II (I), 1: 124.

Argyroploce cespitana: Kennel, 1916, Pal. Tort.: 414, t. 17, f. 28; Meyrick, 1927, Rev. Hand. Brit. Lep.: 576.

Celypha cespitana: Pierce & Metcalf, 1922, Genit. Brit. Tort.: 52, pl. 17.

Celyphoides cespitanus: Obraztsov, 1960, Beitr. Ent. 10: 483; Hannemann, 1961, Tierwelt Deuts. XLVIII (I): 219, t. 19, f. 22.

Orthotaenia gramineana Curtis, 1831, Brit. Ent.: t. 364.

Sericoris instrutana Clemens, 1865, Pr. ent. Soc. Philad. 5: 135.

Sericoris poana Zeller, 1975, Verh. Zool.-bot. Ges. Wien. 1975: 282.

Olethreutes fasciana: Kearfott, 1909, Ent. News 20: 53.

This species is new to Japan. In the Japanese form the fore wing is somewhat darker in colour than that of the European one (cf. Kennel, 1916, etc.), but no special difference can be found between them in the structure of the genitalia (cf. Pierce & Metcalf, 1922; Heinrich, 1926; Hannemann, 1961).

Specimens examined: Hokkaido-Sapporo, 1 ♀, 12. VIII. 1958, T. Oku leg., 1 ♂,

* Notes on Japanese Tortricidae V.

23 VII, 1961, T. Oku leg., & 2 ♀, 15 VIII, 1961, T. Oku leg.; Teine, 1 ♂, 9 VIII, 1956, T. Oku leg. Honshu-Gandō, Iwate-ken, 1 ♂, 25 VI, 1967, T. Oku leg.; Tagajō, Miyagiken, 1 ♂, 16 VI, 1967. K. Yoshida leg.

Distribution: Europe; Japan; North America.

2. *Celyphoides flavipalpanus* (Herrich-Schäffer)

(Fig. 1: B & Fig. 2: C, D)

Sericoris flavipalpana Herrich-Schäffer, 1848, Syst. Bearb. Schmett. Eur. Tort.: 217, t. 30, f. 216.

Celyphoides flavipalpanus: Obraztsov, 1960, Beitr. Ent. 10: 484; Hannemann, 1961, Tierwelt Deuts. XLVIII (I): 219, t. 17, f. 29.

Argyroploce cespitana var. *flavipalpana*: Kennel, 1916, Pal. Tort.: 414, t. 17, f. 29.

Argyroploce lobocasis Meyrick, 1936, Iris 50: 156. **Syn. nov.**

Exartema lobocasis: Clarke, 1958, Cat. Microlep. descr. Meyrick III: 395, pl. 196, f. 4-4a.

Argyroploce euedra Meyrick, 1936, Iris 50: 156. **Syn. nov.**

Olethreutes euedra: Clarke, 1958, Cat. Microlep. descr. Meyrick III: 508, pl. 253, f. 2-2b.

This species is new to Japan. The specimens examined almost agree with the descriptions of *Celyphoides flavipalpanus* (Herrich-Schäffer) given by previous authors (Kennel, 1916; Hannemann, 1961), except that the fore wing is slightly darker in colour. Judging from the photograph of the holotype (♀) of *Argyroploce euedra* Meyrick presented by Clarke (1958), it might be apparently identified with *C. flavipalpanus*. Although the holotype (♂) of *Argyroploce lobocasis* Meyrick is in bad condition with the genitalia damaged at the top

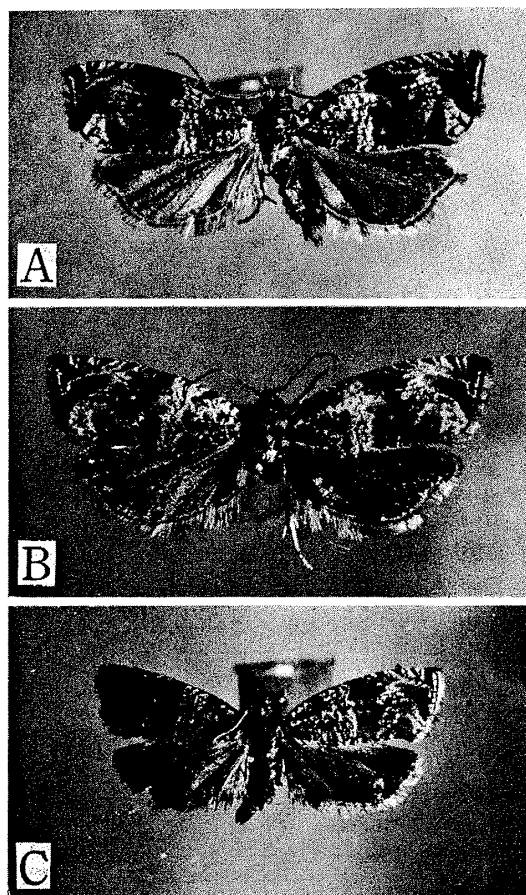


Fig. 1. General feature of three species of the genus *Celyphoides* Obraztsov. A: *C. cespitanus* (Hübner) ♂; B: *C. flavipalpanus* (Herrich-Schäffer) ♂; C: *C. cornigerus* sp. nov. ♂ (holotype).

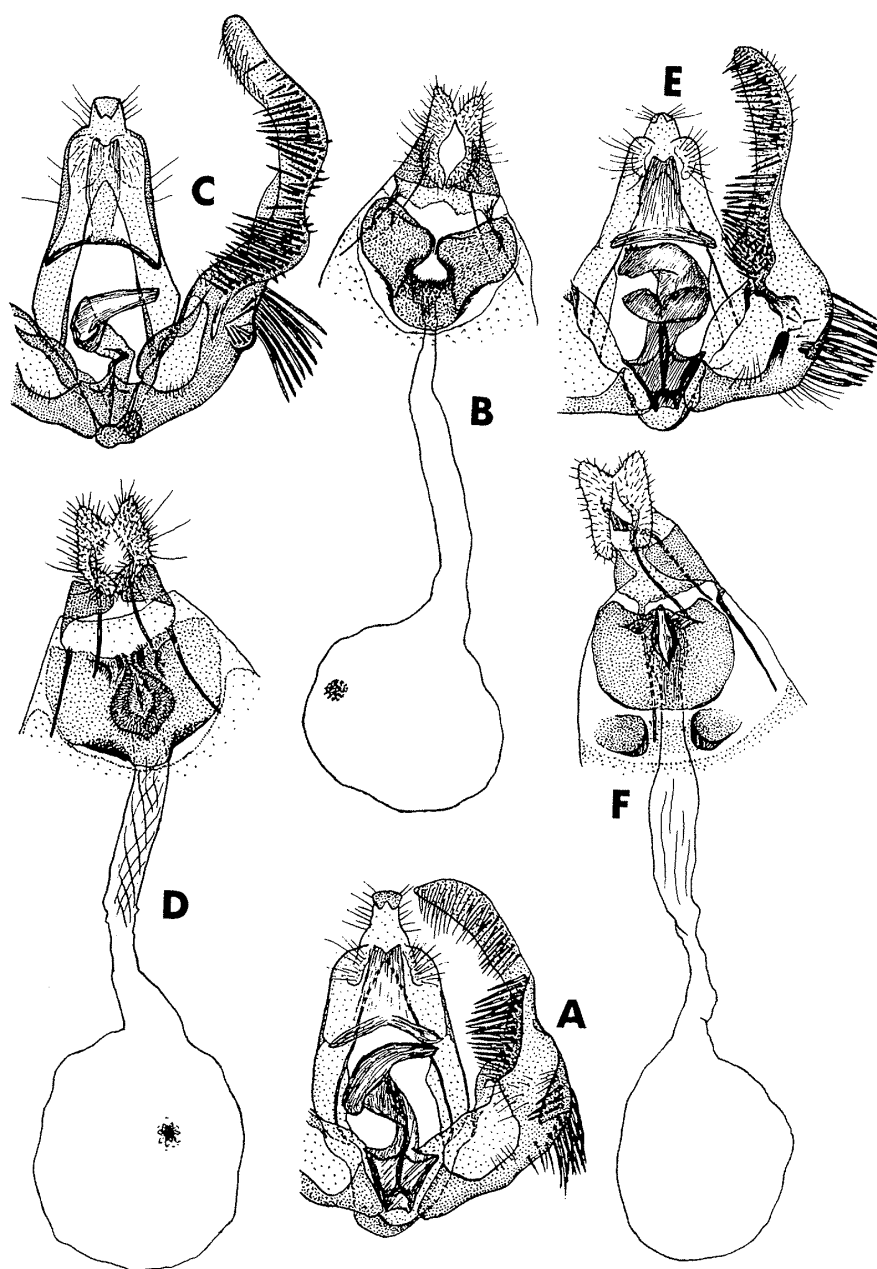


Fig. 2. Genitalia of three species of the genus *Celyphoides* Obraztsov.
 A: *C. cespitanus* (Hübner), ♂; B: *ibid.*, ♀; C: *C. flavipalpanus* (Herrich-Schäffer), ♂; D: *ibid.*, ♀; E: *C. cornigerus* sp. nov., ♂; F: *ibid.*, ♀.

of cucullus (after Clarke, 1958), on account of the characteristically sinuate valva and the stout spines situated just above the dorsal projection of sacculus it might be suppressed as a synonym of *C. flavipalpanus*.

Specimens examined: Hokkaido-Jozankei, 1 ♂, 31 VI, 1917, S. Issiki leg., 1 ♂, 22 VII, 1955, T. Oku leg., 2 ♂, 19 VII, 1956, T. Oku leg.; Eniwa, 1 ♂, 10 VII, 1962, T. Oku leg.; Sapporo, 1 ♂, 9 VII, 1955, T. Oku leg., 5 ♂ 4 ♀, 15 VII, 1961, T. Oku leg. Honshu-Kuzakai, Iwate-ken, 1 ♂, 20 VI, 1965, T. Oku leg.; Morioka, 2 ♂ 1 ♀, 13-19 VI, 1965, T. Oku leg., 1 ♀, 31 VII, 1966, T. Oku leg.; Mt. Takabora, Iwate-ken, 1 ♂, 9 VII, 1966, T. Oku leg.; Okunakayama, Iwate-ken, 1 ♂, 24 VII, 1965, T. Oku leg.; Namerikawa, Toyama-ken, 1 ♂, 14 VIII, 1956, S. Takagi leg.

Distribution: Europe; Siberia; China; Japan.

3. *Celyphoides cornigerus* sp. nov.

(Fig. 1: C & Fig. 2: E, F)

♂ & ♀. Expanse about 15 mm. Antenna ochreous-white, ciliated. Head pale greyish-ochre; vertex mixed with dark grey. Palpus ascending, pale greyish-ochre, with dark-greyish dots at base and along upper edge of its median joint; apical joint exposed. Thorax brownish-grey, whitish at tip of tegula. Fore wing rather narrow, whitish-ochre, marked with dark brownish-grey; costa gradually arched; termen slightly rounded, rather oblique; apex obtuse; basal patch extending to about 1/4 from base of wing; central fascia sent forth from about middle of costa, irregularly dilated towards termen on discal cell, beyond which it is narrowed again and reaches to middle of dorsum; pretornal patch triangular, 4 pairs of costal strigulae whitish, arranged between central fascia and a small darker preapical spot, separated from each other by dark-greyish streaks; preterminal fascia slightly paler than central fascia in colour, beginning below second costal strigula, gradually arched inwards, reaching termen above tornus; cilia whitish-ochre, mixed with dark grey at apex, below middle of termen, and around tornus; subbasal line of cilia dark greyish. Hind wing brownish-grey; cilia pale greyish-ochre with a darker subbasal shade. In a few specimens, ground colour of fore wing is much crowded with leaden-grey and greyish-brown, the markings being indistinct.

♂ Genitalia: - Uncus rather short, hairy; socii small, drooping; valva prominently dilated at basal part; cucullus almost straight, with spines in an irregular row along outer margin of its apical half and with a dense group of larger spines on its basal part; sacculus furnished with a row of strong spines along its lateral margin on outer surface, and with a horn-like costal projection before its ventro-lateral corner; a subtriangular dorsal projection situated just above ventro-lateral corner of sacculus, folded inwards, set with a strong short spine at its top and with some hair-like spines on its inner side; aedoeagus curved, with three minute apical protuberances; cornuti absent.

♀ Genitalia: - Sterigma semicircular, cut off in an arc at its posterior edge, followed by a pair of pocket-like sclerites anteriorly; ostium bursae protruded dorsally, with a pair of thickened lateral lobes posteriorly; signum absent.

Holotype (♂): Morioka, Honshu, 25 VIII, 1965, T. Oku leg.

Paratypes: Morioka, Honshu, 1 ♂, 21 VIII, 1964, 2 ♂ 4 ♀, 9-20 VIII, 1965, 1 ♂, 31 VII, 1966, T. Oku leg.; Iyo, Shikoku, 1 ♀, 23 VII, 1959, M. Okada leg.

Remarks:- This species is closely related to *Celyphoides cespitanus* (Hübner) and *C. flavipalpanus* (Herrich-Schäffer), from which it may be distinguished by the following key:-

1. Expanse 17-18 mm; fore wing with apical area more or less ochreous in colour; valva elongate, with a strongly sinuate cucullus; dorsal projection of sacculus normal; ostium bursae forming a broad ring interrupted at posterior part *Celyphoides flavipalpanus* (Herrich-Schäffer)
- Expanse 14-16 mm; fore wing with apical area greyish-brown or grey in colour; valva moderate in length, with an almost straight cucullus; dorsal projection of sacculus folded inwards; ostium bursae simple or narrowly thickened 2
2. Fore wing with termen more or less concave below apex and markings always distinct; sacculus without a horn-like costal projection; dorsal projection of sacculus set with a few stout spines on its inner side; sterigma without pocket-like sclerites; signum scobinate *Celyphoides cespitanus* (Hübner)
- Fore wing with termen slightly rounded and markings occasionally obsolete; sacculus with a horn-like costal projection before its ventro-lateral corner; dorsal projection of sacculus set with a single strong spine at its top and some hair-like spines on its inner side; sterigma with a pair of pocket-like sclerites anteriorly; signum absent *Celyphoides cornigerus* sp. nov.

新 著 紹 介

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188 頁, 挿図 84 個. 東京都文京区水道町 2-5-5, 文化図芸社発行, 定価 1,200 円

本書は、岡田豊日教授が永年に亘つて心血をそそがれたショウジョウバエ科研究の一部をなすもので、80 種にも及ぶ種について（主として日本産）、それらを卵から成虫まで育て、幼期（卵、幼虫、囲蛹）について詳述したもので、1 種毎に詳しい解剖図をつけてあるので、同定に大いに役立つ。特に興味深いのは、形態的特徴を論じた章で、卵、第 3 令幼虫、前部気門による囲蛹についての種の検索表を作製したのみでなく、進化の観点から、palaeogenesis, pseudocaenogenesis, general caenogenesis, special caenogenesis といつた四つの個体発生上の分化の傾向に注目、論義が進められていることである。このことによつて、幼虫の形態による分類と成虫のそれによる分類との不適合性を見事に避けることに成功している。

このように、総合的に系統的にまとめられた成書は、本科に於ては、従来その例を見ないばかりでなく、他の科に於ても稀で、近來にない優れた貢献である。われわれは、心から岡田博士の労作の出版を祝福したい。昆虫分類・系統学に興味をもつ人々、ショウジョウバエ類の好きな人々には是非とも入手をお奨めしたい。（安松京三）