

## TWO NEW SPECIES AND ONE NEW SUBSPECIES OF THE NOLIDAE FROM JAPAN

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### *Celama emi* sp. nov.

ツマカバユブガ

*Celama distincta* Kawada (nec *distincta* Hampson, 1910) in Icon. Ins. Jap. (ed. 2, revised): 872, f. 2480, 1950.

Antenna in ♂ bipectinate, pectinations slender, moderately long. in ♀ simple; palpi porrect, rather long and slender for *Celama*, nearly as long as *aerugula* Hübner, dorsal surface cleanly white, lateral and ventral surface cinnamon brown, mixed with fuscous and white scales. Head, thorax and forewing above cleanly white, thorax traversed by fuscous band as an extension of fuscous basal-costal area of forewing; hindtibia with a pair of long spurs; abdomen greyish brown, posterior margin whitish, dorsal ornamentations developed in both sexes.

Expanse ♂ ♀, 16-18 mm. Forewing with black ante and postmedian band, light brown at costa, but sometimes brownish scales are mixed up on the band from costa to hindmargin, antemedian gently excurved, behind the cell it becomes oblique inward and reduces its width, the width of the postmedian also diminishes posteriorly, its proximal margin bisinuate, being produced inward at near vein 2, its distal edge often minutely dentate, produced outward beyond the cell-end, distal area suffused with cinnamon brown, white subterminal line frequently indistinct, but proximal fuscous clouding almost always distinct, fringe grey, mixed with fuscous dots; raised scales are placed at subbasal area and on the transverse lines, they are consist of an admixture of black, brown and white scales.

Hindwing dark grey, proximal one-half paler and darkened on each vein, discal spot indicated by darkening of the ground colour, fringe nearly concolorous with the wing.

Under surface of forewing much darker than the upper surface of hindwing, fuscous brown, almost unmarked, rarely displays a faint trace of ante and postmedian of the upper surface, hindwing white, costal one-third contaminated with dark grey atoms, discocellular spot larger and darker than on the upper surface.

Holotype: ♂, Takao-san, Tokyo, 9 April 1954 (K. Ishizuka).

Allotype: ♀, type-locality, 22 April 1950 (S. Sugi).

Paratypes: data as holotype, 2 ♂ ♂; type-locality, 9 May 1953, 1 ♀ (K. Ishizuka); Hikosan, N. Kyushu, 14 April 1954, 1 ♂ (H. Kuroko) in coll. Kyushu University. Types in coll. Inoue, but besides the above recorded specimens 2 paratypes (♂, ♀) collected by me at the same locality are preserved in the British Museum (Natural History).

Related to *C. umbrosa* Wileman from Formosa, but the genitalia are quite distinct. Also similar to *fraterna* Moore and *distincta* Hampson, but the charac-

teristic cinnamon brown distal area of forewing easily distinguishes it from them.

**Celama nami** sp. nov.

ナミコブガ (新称)

Antenna in ♂ thickly ciliated, palpi as in *confusalis* Herrich-Schäffer. Closely related to *confusalis*, but lines darker, antemedian line acutangled in cell, then oblique inward to hindmargin, postmedian double lines, the proximal one acutangled beyond the end of cell, then dentate on vein 1, 2 and 3, distal one strongly dentate on each vein and the teeth fairly sharp, blackened, proximal shading of white subterminal line also darker than in *confusalis*. The ground-colour of both wings more or less whiter than in *confusalis*. Cell spot of the hindwing above and beneath heavier than in *confusalis*. Cornutus longer than in *confusalis*.

Holotype and paratypes: Makukawa-onsen (1200 m.), Fukushima Pref., 4-5 July 1953, 12 ♂♂ (M. Kumakura). Excepting one paratype sent to the British Museum (Natural History), all the types are kept in my collection.

**Nola banghaasi sumi** subsp. nov.

スミコブガ (新称)

Separated from the nominate race *banghaasi* West (1929, Ann. Mag. Nat. Hist., (10) 3:194) from the Ussuri district in having a better marked postmedian fascia and a denser fuscous grey irroration on the forewing above. The ♂ genitalia are identical.

Holotype (♂) and allotype (♀): Takao-san, Tokyo, 13 May 1950 (H. Inoue).

Paratypes: type-locality, 16 May 1949, 6 ♂♂; 2 July 1949, 1 ♂; 13 May 1950, 1 ♀; 14 May 1951, 1 ♂ (H. Inoue). Type-locality, 23 June 1951, 1 ♀ (K. Ishizuka). The holotype, allotype, and 8 paratypes in coll. Inoue, and 2 paratypes in coll. British Museum (Natural History).

This species is rather anomalous for *Nola* (type: *cuculatella* L.) in view of the structure of the male genitalia, but is temporarily placed in that genus pending a re-classification of the family from that point.

I must express my hearty thanks to Mr. D. S. Fletcher, British Museum (Natural History), for his advices in identifying the above described new species and subspecies.

Explanation of Plate 14

Male genitalia:

Fig. 1. *Celama emi* sp. nov.

Fig. 2. *Celama nami* sp. nov.

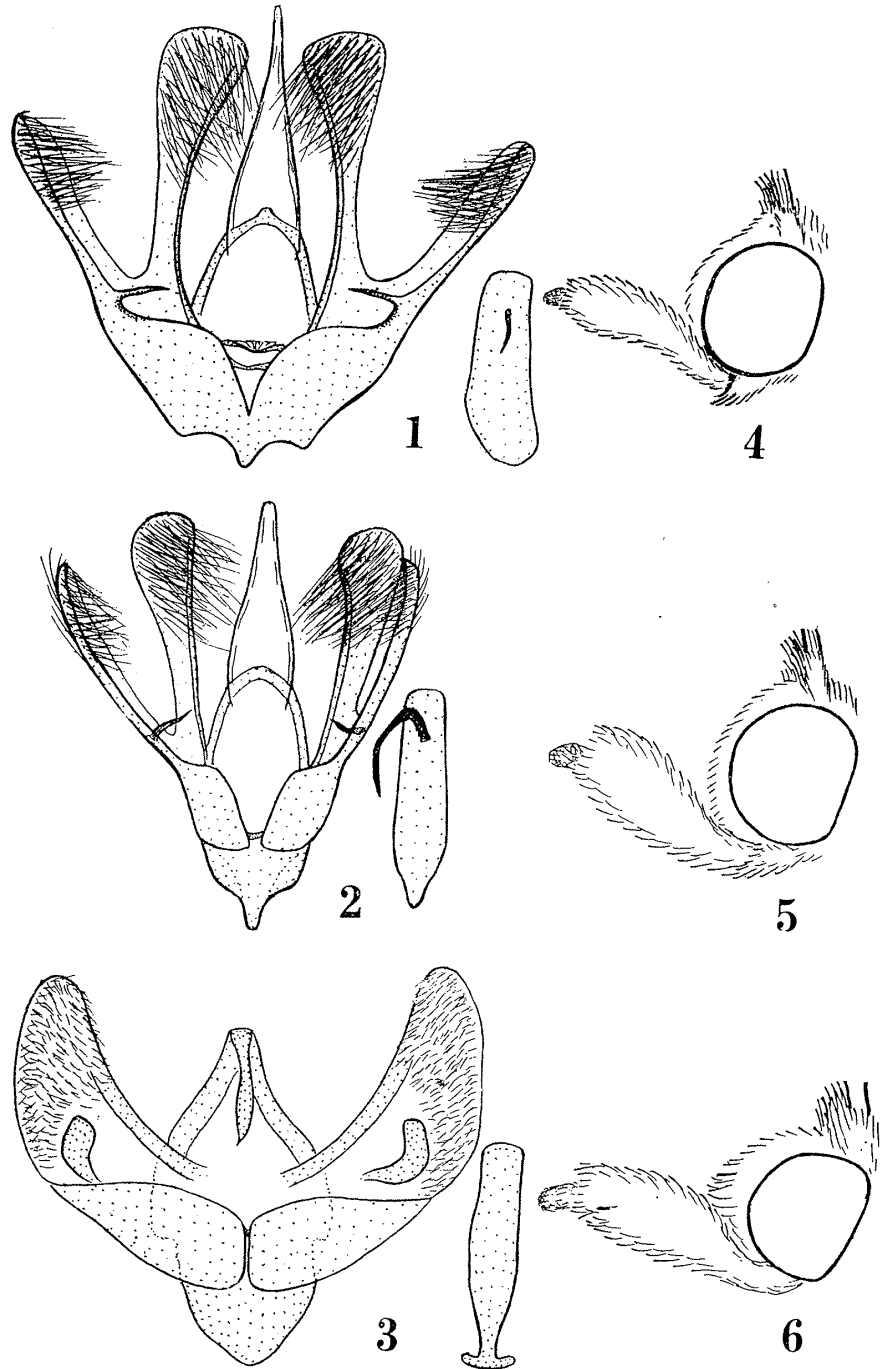
Fig. 3. *Nola banghaasi sumi* subsp. nov.

Head, lateral view:

Fig. 4. *Celama emi* sp. nov., ♀

Fig. 5. *Celama nami* sp. nov., ♂

Fig. 6. *Nola banghaasi sumi* subsp. nov., ♀



Inoue—New species of the Nolidae from Japan