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## A NEW SPECIES OF THE GENUS *CASMINOLA* (LEPIDOPTERA: NOCTUIDAE: NOLINAE) FROM CHINA

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### ABSTRACT

The new species, *Casminola subseminigra* **sp. nov.** (Lepidoptera, Noctuidae, Nolinae), is described from China. It is similar to *C. seminigra* (Hampson, 1896), but can easily be distinguished from it by the forewing lacking an antemedial line; the male genitalia with an uncus broad medially with a curved and pointed apex; and the signa being absent in the female genitalia. Illustrations of adults and genitalia are provided.

Key Words: Nolinae, *Casminola*, new species, China

### RESUMEN

Se describe una nueva especie, *Casminola subseminigra* **sp. nov.** (Lepidoptera, Noctuidae, Nolinae), de China. Esta especie es cercana a *C. seminigra* (Hampson, 1896), pero se pueden distinguir fácilmente por el ala que no tiene una línea antemedial; el ápice del uncus que es ancho; y por el corpus bolsae sin signa. Se proveen ilustraciones de los adultos y de los genitales.

Palabras Clave: Nolinae, *Casminola*, nueva especie, China

*Casminola* is a small genus recently erected by László et al. (2010) with *Poecilonola chionobasis* Hampson, 1901 as the type species. This genus is mainly distributed in Nepal and Thailand. László et al. (2010) arranged 10 species of the genus, including 4 known species *C. chionobasis* (Hampson, 1901), *C. pulchella* (Leech, 1889), *C. yoshimotoi* (Inoue 2000), *C. seminigra* (Hampson, 1896), and 6 new species described at that time, i.e., *C. arminbecheri* László et al. 2010, *C. johannstumpfi* László et al. 2010, *C. breviarharpe* László et al. 2010, *C. splendida* László et al. 2010, *C. spinosa* László et al. 2010, *C. rubropicta* László et al. 2010. In our surveys, we found 1 new species which is described in this paper.

### MATERIALS AND METHODS

The new species was collected by light trapping in Nanling National Nature Reserve (Guangdong, China) and Mt. Damingshan (Guangxi Autonomous Region, China). Specimens were cleared in 10% sodium hydroxide (NaOH), and mounted in glycerine (C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>). Photographs of adults were taken by Sony T100 digital camera and those of genitalia were taken by Carl Zeiss Discovery V12. The plates were compiled by Adobe Photoshop software 6.0.

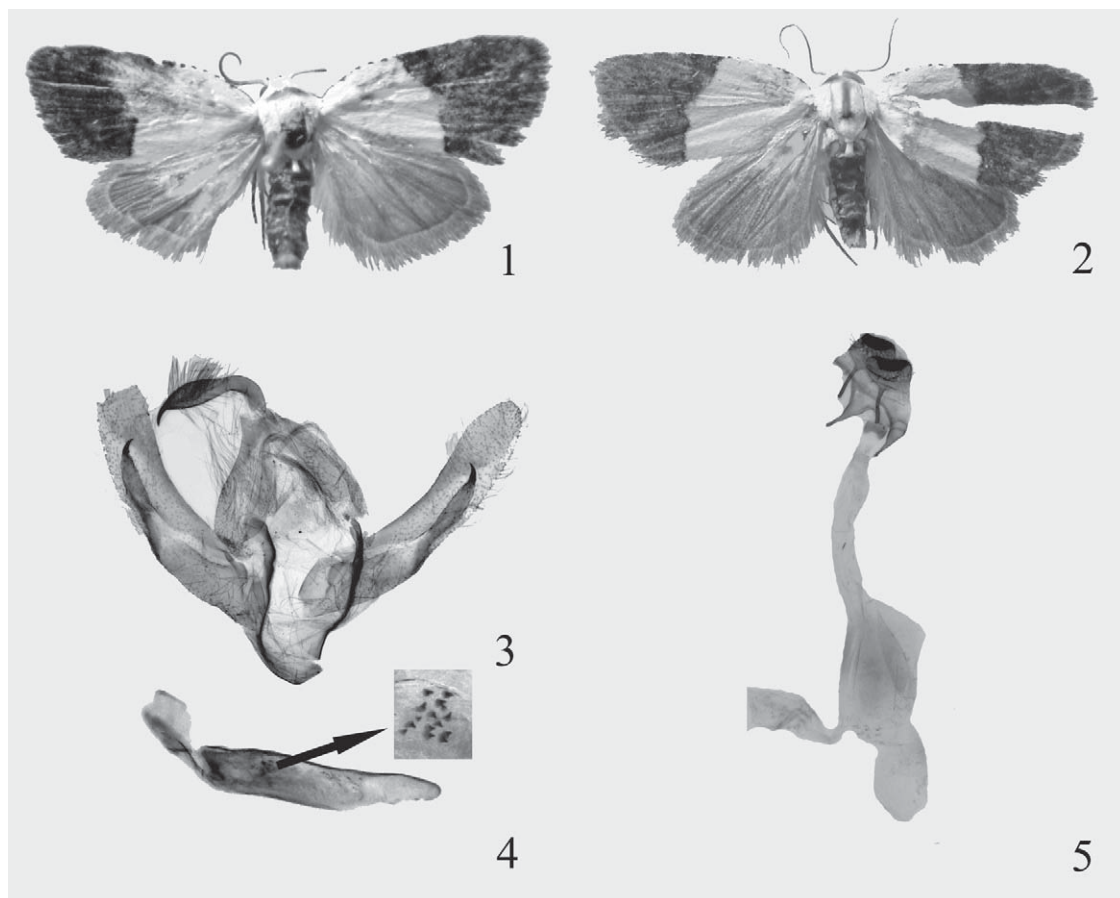
### RESULTS

*Casminola subseminigra* **sp. nov.** (Figs. 1-5)

**HOLOTYPE:** Male, Nanling National Nature Reserve, Guangdong Province, China, 5-VI-2011, leg. Hai-ming XU. **Paratypes:** 1 female, same data as holotype; 1 female, Damingshan, Guangxi Autonomous Region, China, 8-VIII-2011, leg. Min WANG, Yan-qing HU, Wen-tang WANG and Hou-shuai WANG. The type specimens are deposited in the Department of Entomology, College of Natural Resources and Environment, South China Agricultural University, Guangzhou, China.

**Diagnosis.** This new species is similar to *C. seminigra* (Hampson, 1896), but can be distinguished from it by the narrowed wing without an antemedial line, the uncus broad medially with a curved and pointed apex, and valva slightly curved versus straight in *seminigra*; cucullus round, narrower than in *seminigra*; harpe robust with spur at apex; aedeagus longer than in *seminigra*; ductus bursae longer than in *seminigra*; corpus bursae without signa.

**Description.** Adult (Figs. 1 and 2). Wingspan 18 mm. Head white; antenna brown except white near base; labial palpus short, covered with black scales. Thorax and collar white. Abdomen grayish brown. In forewing, costal margin of forewing dotted with some black spots; basal half white, front half brown; basal and antemedial lines absent; medial line black, excurved to Cu<sub>1</sub>, then straight to inner margin; postmedial line faint, absent at costal margin, incurved and fused with medial line; subterminal line faint, excurved to M<sub>2</sub>, then incurved to inner margin; cilia blackish brown.



Figs. 1-5. Adult male and female *Casminola subseminigra* and their genitalia. 1. Male, dorsal view; 2. Female, dorsal view; 3. Male genitalia; 4. Aedeagus (inset: cornuti); 5. Female genitalia.

Hindwing grayish brown, gradually darkened from inner margin to costal margin; veins highlighted; cilia grayish brown.

Male genitalia (Figs. 3 and 4). Uncus almost as long as harpe, bulbous in distal half, abruptly narrowing to curved and pointed; tegumen broad; valva thin, shrinking at middle; cucullus smooth and arched; costal margin slightly excurved medially; saccus margin smooth; harpe narrow at base, slightly bulbous at middle, apex curved and pointed, reaching to 2/3 of valva; saccus U-shaped. Aedeagus cylindrical; coecum short tubular; vesica membranous with many small cornuti.

Female genitalia (Fig. 5). Papillae anales short and broad; apophyses posteriores thin and long; apophyses anteriores short and small, triangular at base; ostium bursae slightly sclerotized; ductus bursae long, 1.5 times as long as corpus bursae, slightly flat; corpus bursae oval, membranous, signa absent; appendix bursae oval, smaller than corpus bursae. Note. The lowest parts of the female genitalia are the broken parts of corpus bursae.

#### Distribution

China (Guangdong Province, Guangxi Autonomous Region).

#### Etymology

The specific name is taken from the name of the similar species *C. seminigra* (Hampson, 1896).

#### ACKNOWLEDGMENTS

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#### REFERENCES CITED

- INOUE, H. 2000. Two new species of the Nolinae (Noctuidae) from Taiwan. Trans. Lepidopterol. Soc. Japan 51(4): 251-254.
- LÁSZLÓ, G. M., RONKAY, G., AND WITT, T. J. 2010. Contribution to the Nolinae (Lepidoptera, Noctuidae) fauna of North Thailand (Plates 1-11). Esperiana 15: 14-19, 78-83, 442-443, 460-461.