

A newly recorded genus *Caniatta* Solovyev & Witt, 2009 (Lepidoptera: Limacodidae) from China

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Abstract: The genus *Caniatta* Solovyev & Witt, 2009, belonging to the family Limacodidae, is reported for the first time from Yunnan Province in China, with the redescription of the newly recorded species *Caniatta levis* Solovyev & Witt, 2009. Illustrations of the adults and genitalia along with its distribution are provided.

Key words: Zygaenoidea; taxonomy; new record; Yunnan

中国刺蛾科一新记录属——拟线刺蛾属记述（鳞翅目：刺蛾科）

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摘要: 本文记述中国刺蛾科 1 新记录属: 拟线刺蛾属 *Caniatta* Solovyev & Witt, 2009 及 1 新记录种: 光拟线刺蛾 *Caniatta levis* Solovyev & Witt, 2009, 并提供雄性成虫和外生殖器特征图及分布情况。

关键词: 斑蛾总科; 分类; 新记录; 云南

Introduction

The genus *Caniatta* Solovyev & Witt, 2009 (Lepidoptera: Limacodidae) was erected by Solovyev & Witt (2009) based on the type species *C. levis* Solovyev & Witt, 2009 from Vietnam. Up to now, only the type species has been described. In this paper, through the comparison of the characteristics of its external pattern and genitalia, *C. levis* has been found in Yunnan Province from China for the first time, and the genus is also new to China.

Material and methods

Specimens were collected by 220V/450W mercury and DC black light lamps at Menglun Town, Mengla County in Yunnan Province. Dissection and preparation of genital sections were performed using standard methods (Kononenko & Han 2007). A Nikon D700 camera was used to photograph specimens. Photos of the genitalia slides were taken using the Olympus Photo microscope, Helicon Focus software and further processed in Adobe

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Photoshop CS6. All examined specimens are deposited in the collection of Northeast Forestry University (NEFU) in Harbin, China.

Taxonomy

Caniatta Solovyev & Witt, 2009

Caniatta Solovyev & Witt, 2009: 198. Type species: *Caniatta levis* Solovyev & Witt, 2009. Type locality: Vietnam (Ninh Binh).

Diagnosis. Moths in this genus are small, yellowish grey. The male antenna is broadly bipectinated almost to the apex. The forewing with a pair of dark lines parallel to the outer margin. The forewing venation has R_5 branched from R_3+R_4 . The fringe is long. In the male genitalia, the apex of uncus is bifurcated. The valva is narrow, without any process, and the terminal is acute. The phallus is slender, slightly waved. The vesica contains two rows of thick hair-like cornuti.

The genus *Caniatta* Solovyev & Witt, 2009 is similar in appearance to *Cania* Walker, 1855, but can be distinguished from the latter by the characteristics of the external pattern and the genitalia as follows: the male antenna is broadly bipectinated almost to the apex; in the phallus, the vesica contains two rows of thick hair-like cornuti (Solovyev & Witt 2009; Solovyev 2014).

Caniatta levis Solovyev & Witt, 2009 (Figs 1, 2)

Redescription. Adult (Fig. 1). Wingspan 11–12 mm in male. Head yellowish grey, the labial palpus slightly upcurved. Male antenna bipectinated almost to the apex, about 1/2 the length of the forewing. Thorax yellowish brown. Abdomen yellowish grey. Forewing ground color is yellowish grey; the costal, outer and inner margin yellowish brown; the venation dark, with R_5 branched from R_3+R_4 . Postmedial and subterminal lines distinct, brown, obliquely inward; the postmedial line runs from the centre of costal margin to the centre of the inner margin, and the subterminal line runs from apex to 3/4 from the wing base of inner margin, both of those two lines being parallel to the outer margin. Fringe long, dark brown. Hindwing ground color is pale yellowish grey; the venation distinct, brown; the fringe long, pale yellow to brown.

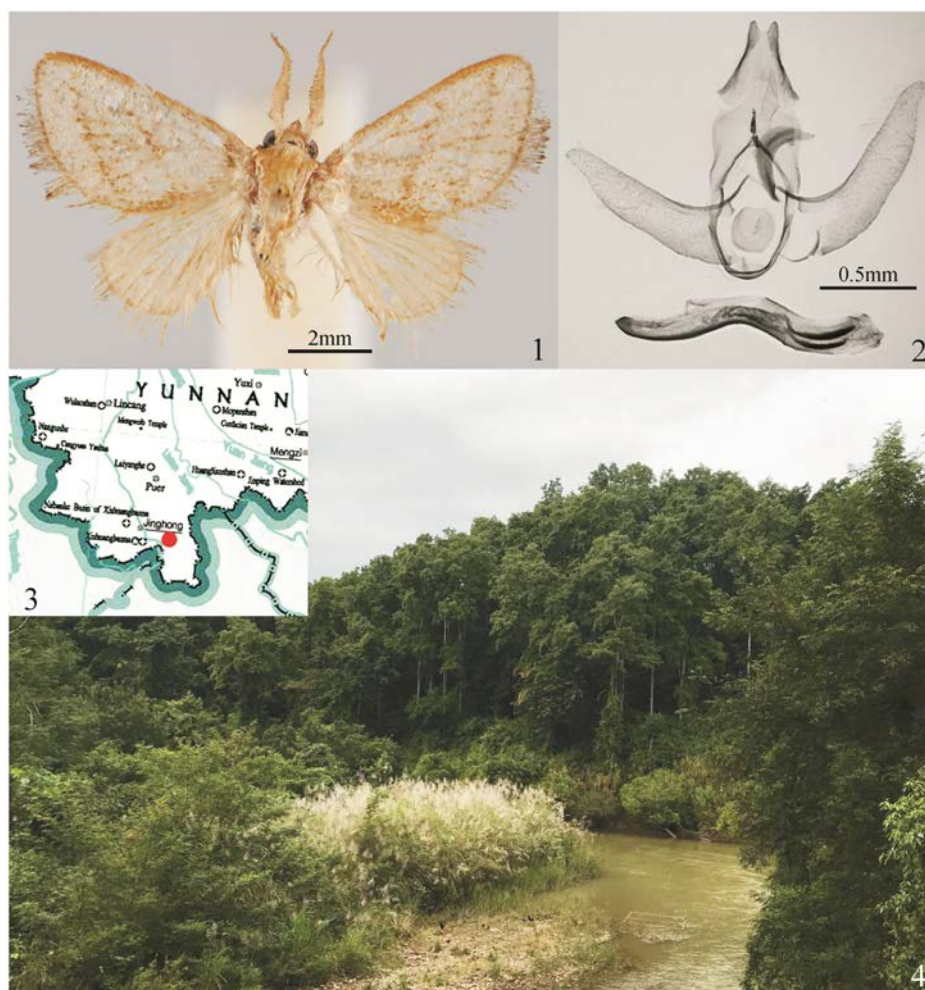
Male genitalia (Fig. 2). Uncus concave in apex and bifurcated. Gnathos developed, with a suddenly attenuated terminal. Tegumen broad, approximately square in back views. Valva narrow, subterminal slightly attenuated, cucullus pointed. Juxta rounded, slightly concave apically. Vinculum U-like. Saccus not obvious. Phallus slender, slightly wavy, about 1.5 times as long as the valva. Vesica contains two rows of thick hair-like cornuti.

Female. Unknown.

Specimens examined. 2♂, **China**, Yunnan Province, Mengla County, Menglun Town, 08-VIII-2018, legs. Huilin HAN, Jun WU & Mingrui LI, gen. prep. No. WuJ-149-1, WuJ-244-1.

Distribution. China (Yunnan); Vietnam.

Remarks. These moths fly in August. The specimens were collected by 220V/450W mercury light and DC black light at Menglun Town, a site close to the tropical rain forest (Figs 3, 4).



Figures 1–4. 1. Male adult; 2. Male genitalia, gen. prep. No. WuJ-244-1; 3. Collecting site: Yunnan Province, Mengla County, Menglun Town (black dot) 4. Collecting site close to the tropical rain forest.

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