

A New Record of *Euproctis wilemani* (Lepidoptera: Lymantriidae) from Hainan Island

Authors: Wang, Hou-Shuai, Fan, Xiao-Ling, and Wang, Min

Source: Florida Entomologist, 93(2) : 325-326

Published By: Florida Entomological Society

URL: <https://doi.org/10.1653/024.093.0232>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

A NEW RECORD OF *EUPROCTIS WILEMANI* (LEPIDOPTERA: LYMANTRIIDAE) FROM HAINAN ISLAND

HOU-SHUAI WANG, XIAO-LING FAN AND MIN WANG

Department of Entomology, College of Natural Resources & Environment, South China Agricultural University, Guangzhou 510642, China

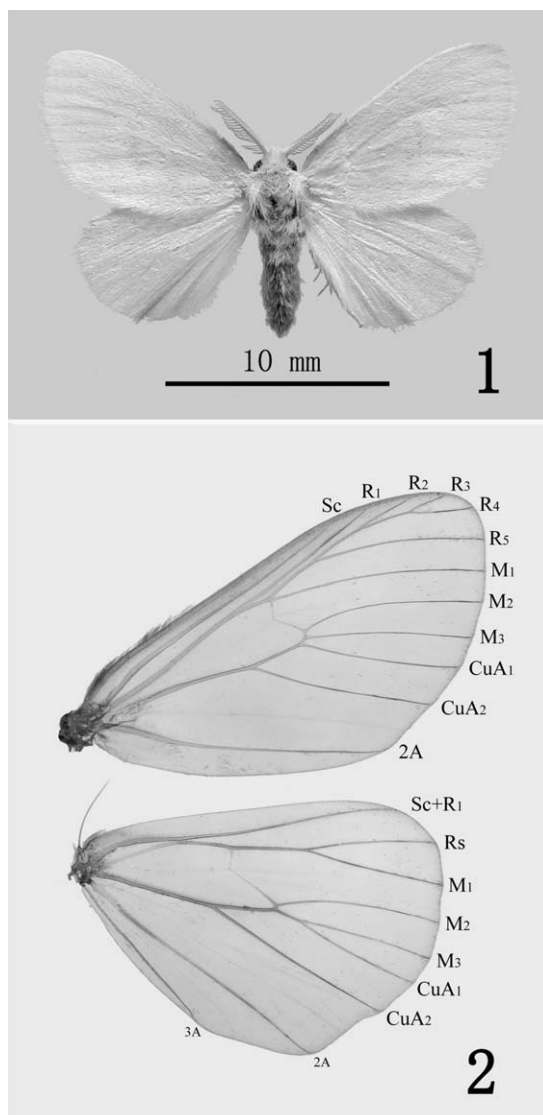
E-mail: minwang@scau.edu.cn

Hainan Island, with an area of about 33920 km² located at the northern margin of tropical Asia, (Zhang 2004), has exceptional high species richness and is considered a hotspot region for biodiversity research (Myers et al. 2000). On 11 Apr 2009, we conducted a survey of Lepidoptera in Jianfengling National Nature Reserve, southwest of Hainan Island, as a part of Lepidoptera inventory initiated several years ago (Wang & Huang 2005). Two male lymantrid specimens of Nygmiiini collected by light trapping were confirmed as *Euproctis wilemani* based on the male genitalia compared with the literature. The species was first described by Collenette in 1929 and previously recorded only from regions of the Malay Archipelago including The Philippines, Borneo, and Sumatra (Holloway 1999). We report here the occurrence of *E. wilemani* from Hainan Island as well as China for the first time and describe morphological characters.

Male adult (Figs. 1 and 2): Wingspan 22 mm. Head covered with yellow scales. Antenna bipectinate, pale yellow. Labial palpus short, upturned, thickened with somewhat rough yellow scales. Thorax and tegula yellow. Forewing evenly yellow, fringe white; venation with R₅ branching off more distally than R₄, R₅ stalked with R₂₊₃₊₄, M₁ arising from upper angle of distal cell, M₃ from under angle of distal cell, M₂, M₃ and CuA₁ isolated. Hindwing yellowish white, fringe white; venation with Rs and M₁ stalked at basal 1/3, M₂ and M₃+CuA₁ arising from under angle of distal cell, M₃ stalked with CuA₁ at 1/5 basally. Abdomen dark yellow.

Male genitalia (Fig. 3): Uncus bifid at base. Valves square, cucullus slightly convex medially. Saccus strong, V-shaped. Juxta deeply convex on anterior margin at middle. Aedeagus wide, longer than valves in length; a single, heavily sclerotized cornutus present in the vesica, broad basally, acute apically.

The present discovery greatly extends the distribution range of *E. wilemani* from the Malay Archipelago, which is mainly a tropical rainforest climate, to Hainan Island, which has a tropical monsoon climate. However, Hainan Island has close association and shares a common origin with Malay Archipelago in some insect species (Zhang 2004; Huang 2002). *Euproctis wilemani* from Hainan has no distinct difference from those of Borneo and Sumatra, except the Hainan specimens are



Figs. 1 and 2. Adult and venation of *Euproctis wilemani* Collenette, 1929, 1. Male adult, upperside. 2. Venation, male.

smaller and the forewing facies are yellow. These small differences seem likely to be intraspecific variation due to geographical isolation.

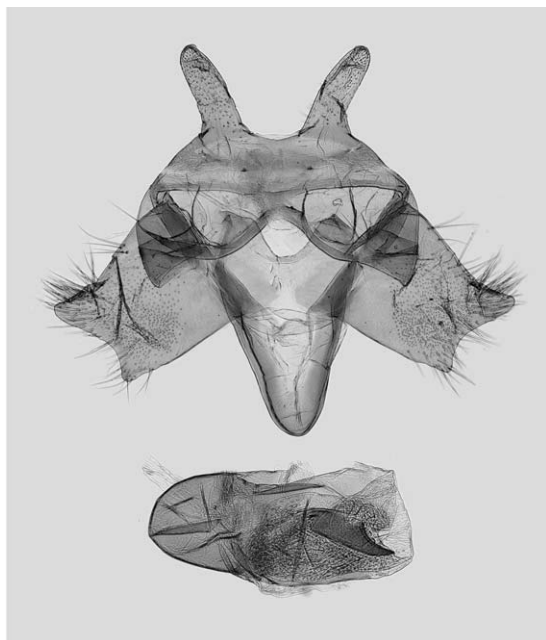


Fig. 3. Male genitalia of *Euproctis wilemani* Collenette, 1929

SUMMARY

Euproctis wilemani Collenette, 1929, previously recorded in Philippines, Borneo, and Sumatra, is reported from Hainan Island for the first time. The adult male, wing venation, and the male genitalia are illustrated.

ACKNOWLEDGMENTS

We are grateful to thank Mr. Y. Kishida, Japan Heterocerists' Society for providing relevant literature. We appreciate the comments by Dr. Holloway, British Museum of Natural History on identifying species. We thank Mr. Y. Long, South China Agricultural University for collecting materials.

REFERENCES CITED

- HOLLOWAY, J. D. 1999. The Moths of Borneo, Part 5: Family Lymantriidae. *Malayan Nature Journal* 53: 1-188.
- HUANG, F. S. 2002. *Forest Insects of Hainan*. Science Press, Beijing, 1060 pp.
- MYERS, N., MITTERMEIER, R. A., MITTERMEIER, C. G., DA FONSECA, G. A. B., AND KENT, J. 2000. Biodiversity hotspots for conservation priorities. *Nature* 403: 853-858.
- WANG, M., AND HUANG, G. H. 2005. Two new species of the genus *camptoloma* (Lepidoptera: Noctuidae) from China. *Florida Entomologist* 88(1): 34-37.
- ZHANG, R. Z. 2004. Biogeographical characteristics of Hainan Island. *Living Forests* (7): 6-8.