

New Larval Host Record: *Traminda aventiaria* (Lepidoptera: Geometridae) Feeds on the Critically Endangered Tree, *Serianthes nelsonii* (Leguminosae), on Guam

Note prepared by Aubrey Moore (aubreymoore@triton.uog.edu)

January 2, 2020

In April 2018, Dr. James McConnell discovered a small looper caterpillar feeding on leaves of *Serianthes nelsonii* (Leguminosae), a critically endangered tree species [5], growing in the Guam Plant Extinction Prevention Program nursery on the University of Guam campus in Mangilao, Guam. He reared the insect into a moth and sent me images which I posted on iNaturalist [2] with a tentative identification of *Thalassodes*.

On December 29 2019, Dr. R. C. Kendrick, responded to the iNaturalist post with a species determination of *Traminda adventiaria* with a follow up comment indicating that Holloway (1997) includes Guam within the geographic range for this species. The first island record for Guam in 1936 was reported by Swezey (1946) [1] (Fig. 3) using the synonym, *Timandra adventiaria*. No other subsequent records for this species are known from Guam.

164

Bernice P. Bishop Museum—Bulletin 189

7. ***Timandra adventiaria*** Guenée, Phal. 2: 3, 1852; Hampson, Fauna Brit. India, Moths 3: 459, fig. 206, 1895.

Piti, June 29, July 22, Sept. 12, 20, Oct. 23, all from slender looping caterpillars on *Pithecolobium dulce*, Swezey; Merizo, May 14, reared from caterpillar on rose, Swezey. All specimens reared.

This moth occurs throughout India, Ceylon, and Burma, and in Java, Formosa, and Australia. It is now recorded for the first time in Guam.

Figure 1: First record of *Timandra adventiaria* from Guam. Extracted from Swezey 1946 [1].

Table 1: List of *Traminda aventiaria* larval host plants from Robinson et al. 2010 [4].

Hostplant Family	Hostplant Name	Country
Gramineae		Andaman & Nicobar Is
Leguminosae	<i>Acacia</i>	India
Leguminosae	<i>Acacia confusa</i>	Hong Kong
Leguminosae	<i>Acacia pennata</i>	India
Leguminosae	<i>Albizia</i>	India
Leguminosae	<i>Albizia</i>	New Guinea
Umbelliferae	<i>Oenanthе javanica</i>	West Malaysia
Leguminosae	<i>Pithecellobium</i>	Guam
Leguminosae	<i>Pithecellobium dulce</i>	Guam
Rosaceae	<i>Rosa</i>	Guam



Figure 2: *Timandra adventiaria*. Dorsal view.



Figure 3: *Timandra adventiaria* Ventral view.

References

- [1] Swezey, O.H. 1946. Lepidoptera: Geometridae, Arctiidae, Agrotidae and Pyralidae of Guam. In Insects of Guam II, Bernice P. Bishop Museum Bulletin 189, O.H. Swezey, editor. Available online at <http://hbs.bishopmuseum.org/pubs-online/pdf/b189p163-185.pdf>. (Accessed 2020-01-01).
- [2] iNaturalist 2018. Observation 11356300. Available online at <https://www.inaturalist.org/observations/11356300>. (Accessed 2020-01-01).
- [3] J.D.Holloway, J.D. 1997. The Moths of Borneo 10. Malayan Nature Journal. Available Online at http://www.mothsofborneo.com/part-10/timandrini/timandrini_3_1.php. (Accessed 2020-01-01).
- [4] Robinson, G. S., P. R. Ackery, I. J. Kitching, G. W. Beccaloni and L. M. Hernández, 2010. HOSTS - A Database of the World's Lepidopteran Hostplants. Natural History Museum, London. Available online at <https://www.nhm.ac.uk/our-science/data/hostplants/search/index.dsml>. (Accessed 2020-01-01).
- [5] Wiles, G. and E. Williams 2017. *Serianthes nelsonii*. The IUCN Red List of Threatened Species 2017: e.T30437A98715973. <http://dx.doi.org/10.2305/IUCN.UK.2017-3.RLTS.T30437A98715973.en>. (Accessed 2020-01-01).