

The *Acrophtalmia* subspecies of Mindanao, Philippines, including two recently recognized taxa (Lepidoptera, Nymphalidae, Satyrinae)

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Abstract: New taxonomic arrangements of species in the genus *Acrophtalmia* are proposed in light of the work by OKANO & OKANO (1992) and examination of the Justin S. NUYDA collection. *Acrophtalmia bukidnonensis* OKANO & OKANO, 1992 is now regarded as subspecies of *A. albofasciata*, and *A. soloni* OKANO & OKANO, 1992 is *A. yamashitai*.

Über einige Unterarten von *Acrophtalmia* von Mindanao, Philippinen, einschließlich zweier neu identifizierter Taxa (Lepidoptera, Nymphalidae: Satyrinae)

Zusammenfassung: Basierend auf dem Werk von OKANO & OKANO (1992) und der Besichtigung der Sammlung von Justin S. NUYDA werden einige geänderte Unterartzuordnungen in der Gattung *Acrophtalmia* vorgenommen: *Acrophtalmia bukidnonensis* OKANO & OKANO 1992 wird nunmehr als Unterart von *A. albofasciata* angesehen, und *A. soloni* OKANO & OKANO 1992 gehört zu *A. yamashitai*.

Introduction

The genus *Acrophtalmia* was described by C. & R. FELDER in 1861 from the type species *Acrophtalmia artemis* (C. & R. FELDER, 1861). The center of diversity of this genus is the Philippines, but two species are found in Wallacea. TREADAWAY & SCHROEDER (2012) listed five endemic Philippine species, while TENNENT et al. (2010) recorded seven species of *Acrophtalmia* distributed from the Philippines to West Papua.

Acrophtalmia albofasciata occurs from South to Central Mindanao in the Philippines (TREADAWAY & SCHROEDER 2012) and was described by UÉMURA & YAMAGUCHI in 1982 from a type specimen collected on Mount Apo. The species distribution map of TSUKADA et al. (1982) included the Kitanglad Range, but no specimen was collected by those authors. The inclusion of the Kitanglad Range on the map may have been erroneous since one specimen from TSUKADA et al. (1982) was collected in Magpet, which is slightly north of Mt. Apo. Recent examination of the NUYDA collection uncovered unusual *Acrophtalmia* specimens from Mt. Kitanglad collected by J. NUYDA from the 1980s to the early 1990s.

This taxon was described as *Acrophtalmia bukidnonensis* by OKANO & OKANO in 1992, but the species was not included in TREADAWAY & SCHROEDER's (2012) checklist. Morphological examination of the wing patterns of the NUYDA specimens and the OKANO & OKANO (1992) genitalia illustrations indicate that the specimens are perhaps best regarded as a subspecies of *Acrophtalmia albofasciata*.

Similarly, *Acrophtalmia soloni*, which was described by OKANO & OKANO (1992) from specimens collected in

the Mt. Kitanglad Range, was not included in TREADAWAY & SCHROEDER's (2012) checklist. The specimen illustrated in OKANO & OKANO's (1992) paper did not include illustration of the genitalia, but is superficially almost identical to *Acrophtalmia yamashitai*.

We therefore relegate *Acrophtalmia bukidnonensis* and *A. soloni* to the subspecies level of two different species:

Acrophtalmia albofasciata albofasciata UÉMURA & YAMAGUCHI, 1982

Distribution: Mindanao, Mt. Apo

Acrophtalmia albofasciata bukidnonensis OKANO & OKANO, 1992 stat. n.

Distribution: Mindanao, Mt. Kitanglad

Acrophtalmia yamashitai yamashitai UÉMURA & YAMAGUCHI, 1982

Distribution: Negros and Panay

Acrophtalmia yamashitai soloni OKANO & OKANO, 1992 stat. n.

Distribution: Mindanao, Mt. Kitanglad

Diagnosis and identification

***Acrophtalmia albofasciata bukidnonensis* OKANO & OKANO, 1992**

Specimens examined: *Acrophtalmia albofasciata bukidnonensis* ♂, Mt. Kitanglad, Bukidnon, Mindanao, 30. v. 1995, leg. J. NUYDA. ♀, 1982. ♀, 10. iii. 1988. ♀, 10. iii. 1988. ♀, 21. v. 1993. ♀, IV-22, 1988. ♂, 21. iv. 1993. ♂, 10. iii. 1985, leg. J. NUYDA. The specimens are deposited in the J. NUYDA Collection, Paranaque, Manila, Philippines. — ♂, 2019, leg. D. J. LOHMAN, deposited in the National Museum of Natural History, Manila, Philippines.

Male. Forewing length, 18.0–19.0 mm (n = 3). The ssp. *bukidnonensis* is similar to the nominotypical subspecies *albofasciata* but with a wider white band on forewing. The forewing black marginal band in ssp. *albofasciata* terminates curvedly towards dorsum, while ssp. *bukidnonensis* terminates towards tornus. The postmedian towards margins (including eyespots which are smaller) on the underside of the hindwing are darker compared to ssp. *albofasciata*.

Female. Forewing length, 18.0 mm (n = 5). Similar to the males but with a slightly broader black marginal band on forewing.

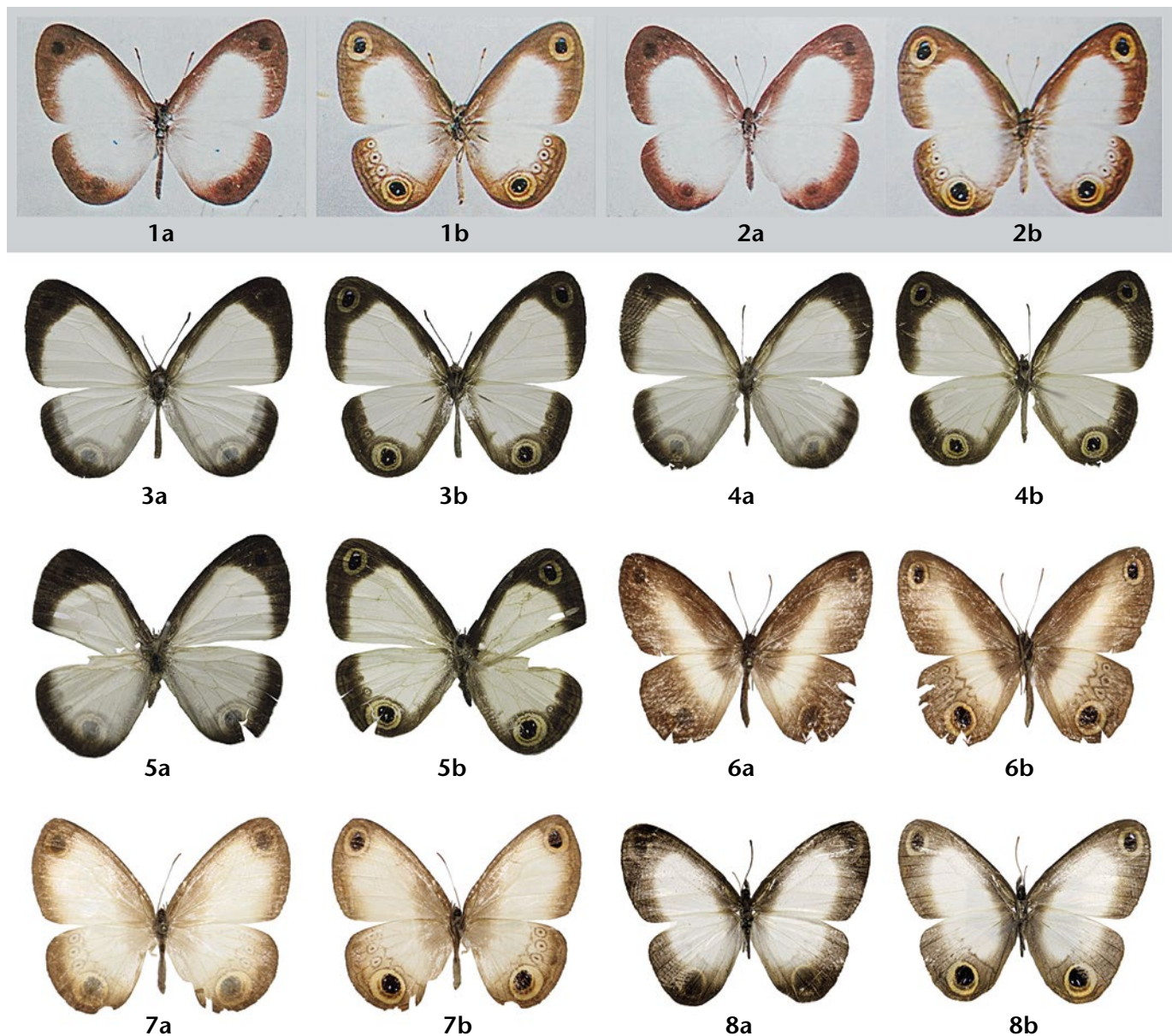


Fig. 1: *Acrophtalmia albofasciata albofasciata*, holotype ♂, Mount Apo, Mindanao; **1a** upperside, **1b** underside. **Fig. 2:** *Acrophtalmia albofasciata albofasciata*, paratype ♀, Mount Apo, Mindanao; **2a** upperside, **2b** underside. Photos of the *A. a. albofasciata* types are from UÉMURA & YAMAGUCHI (1982). — **Fig. 3:** *Acrophtalmia albofasciata bukidnonensis* stat. n., ♂, 30. v. 1995, Mt. Kitanglad Range, Bukidnon, Mindanao, Philippines, J. NUYDA collection, Philippines; **3a** upperside, **3b** underside. **Fig. 4:** *Acrophtalmia albofasciata bukidnonensis* stat. n., ♀, 10. III. 1988; **4a** upperside, **4b** underside. **Fig. 5:** *Acrophtalmia albofasciata bukidnonensis* stat. n., ♀, 10. III. 1988; **5a** upperside, **5b** underside. — **Fig. 6:** *Acrophtalmia leto ochine*, ♂, ix, South Leyte; **6a** upperside, **6b** underside. **Fig. 7:** *Acrophtalmia leto ochine*, ♀, ix, South Leyte; **7a** upperside, **7b** underside. — **Fig. 8:** *Acrophtalmia yamashitai yamashitai*, ♂, 2012, Negros; **8a** upperside, **8b** underside.

Acrophtalmia yamashitai soloni OKANO & OKANO, 1992

We did not examine specimens of *soloni*, but judging from original description and figures, we tentatively regard the nominal taxon *soloni* as a subspecies of *yamashitai*. There is still need for further study.

Male. OKANO & OKANO (1992) only illustrated one ♂ specimen from Talakag (which is slightly south of Mt. Kitanglad) of Bukidnon. The specimen illustrated is similar to *A. yamashitai*, and the difference is that the postmedian irregular line of the hindwing in *A. yamashitai soloni* is closer to the eyespots compared with the nominotypical subspecies *yamashitai*.

Female. Unknown, but probably similar to the males but with broader markings.

Habitats: Higher elevation forests. *Acrophtalmia yamashitai* on Negros Island also inhabits higher elevation forests and mostly flies along the trails (BADON 2014).

Hostplants: Currently unknown, but *Acrophtalmia artemis* (C. & R. FELDER, 1861) feeds on *Selaginella delicatula* and *S. fenixii* (Selaginellaceae) (TSUKADA et al. 1982, ROBINSON et al. 2001, and IGARASHI & FUKUDA 1997).

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