Unknown Treadaway-Nuyda butterfly type collection found in the Philippine National Museum of Natural History

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ABSTRACT

This paper reports the rediscovery of butterfly specimens from the Treadaway-Nuyda Collection at the Philippine National Museum of Natural History, including several paratypes dating back to expeditions conducted between the late 1980s and early 1990s. The identification of these specimens reinforces their value as reference material for taxonomic verification and affirms the role of museum collections in preserving historical records of biodiversity.

INTRODUCTION

The Nuyda family made several expeditions in the Philippines and made significant contributions to the study of butterflies. Justin S. Nuyda, the youngest in the family, succeeded in establishing his own collection with type specimens. C.G. Treadaway and J.S. Nuyda were known to have shared butterfly specimens. When the senior author (J.A.T. Badon) first met J.S. Nuyda in 2017 and conversed with him, J.S. Nuyda mentioned that he had donated specimens to the National Museum of Natural History in the past. However, he did not mention any specifics on what species or how many specimens he donated.

David J. Lohman, a visiting curator of the NMNH in 2019, found a brown insect box with important type specimens and contacted J.A.T. Badon for further examination. In November 2024, the authors visited the National Museum of Natural History in the Philippines to examine Lepidoptera specimens. The researchers examined and identified the collection by Colin G. Treadaway and Justin S. Nuyda, containing type specimens of *Tanaecia palawana pallida* = valid name is *Tanecia aruna pallida* Schroeder, Treadaway and Nuyda 1990, *Euthalia semperi candida* = valid name is *Cynitia semperi candida* Schroeder, Treadaway and Nuyda 1990, *Euthalia aconthea bongaoensis* Schroeder, Treadaway and Nuyda 1990, *Euthalia aconthea sibutana* Schroeder, Treadaway and Nuyda 1990, *Lebadea martha undulata* Schroeder and Treadaway 1990, *Lebadea martha tessellata* Schroeder and Treadaway 1990, and *Lebadea martha jecieli* Schroeder, Treadaway and Nuyda 1990 that were collected in 1988 and 1990.

Treadaway-Nuyda Butterfly Type Collection in NMNH:

Figures: *T. palawana pallida* (Figure 1), Busuanga Island, Calamian, Coron, Philippines, elevation of 30m, August 2, 1990, leg. CGT/TB; ♀; PNM Paratype 10088. *E. semperi candida* (Figure 2), Busuanga Island, Calamian, Conception, Philippines, elevation of 50m, August 3, 1990, leg. C. Treadaway; ♂; PNM Paratype 10091. *E. aconthea bongaoensis* (Figure 3), Bongao Peak, Bongao Island, Tawitawi, Philippines, March 15, 1990, leg. Dodong; ♀; PNM Paratype 10089. *E. aconthea bongaoensis* (Figure 4), Bongao Peak, Bongao Island, Tawitawi, Philippines, March 16, 1990, leg. Borromeo; ♂; PNM Paratype 10086. *E. aconthea sibutana* (Figure 5), Cavan Cavan, Sibutu Island, Tawitawi, elevation of 5m, February 16, 1989, leg. CGT/TB; ♀; PNM Paratype 10090. *E. aconthea sibutana* (Figure 6), Cavan Cavan, Sibutu Island, Tawitawi, elevation of 5m, February 14, 1989, leg. CGT/TB; ♂; PNM Paratype 10087. *L. martha undulata* (Figure 7), Boloboc, Sanga-Sanga Island, Tawitawi, Philippines, elevation of 15m, February 19, 1989; ♀; PNM Paratype 10092. *L. martha undulata* (Figure 8), Boloboc, Sanga-Sanga Island, Tawitawi, Philippines, elevation of 15m, January 8, 1990, leg. TB; ♂; PNM Paratype 10085. *L. martha tessellata* (Figure 9), Cavan Cavan, Sibutu Island, Tawitawi, Philippines, elevation of 5m, June 27, 1988, leg. Treadaway; ♂; PNM Paratype 10084. *L. martha jecieli* (Figure 10), Conception,

Busuanga Island, Calamian, Philippines, elevation of 50m, August 3, 1990, leg. Dodong; ♀; PNM Paratype 10082. *L. martha jecieli* (Figure 11), Aug 90; ♂; PNM Paratype 10081.

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Figure 1. *Tanaecia palawana pallida* = *Tanecia aruna pallida* ♀ PARATYPE. Figure 2. *Euthalia semperi candida* = *Cynitia semperi candida* ♂ PARATYPE. Figure 3. *Euthalia aconthea bongaoensis* ♀ PARATYPE. Figure 4. *Euthalia aconthea bongaoensis* ♂ PARATYPE. Figure 5. *Euthalia aconthea sibutana* ♀ PARATYPE.

Figure 6. *Euthalia aconthea sibutana* ♂ PARATYPE. Figure 7. *Lebadea martha undulata* ♀ PARATYPE. Figure 8. *Lebadea martha undulata* ♂ PARATYPE. Figure 9. *Lebadea martha tessellata* ♂ PARATYPE. Figure 10. *Lebadea martha jecieli* ♀ PARATYPE. Figure 11. *Lebadea martha jecieli* ♂ PARATYPE.