

Brazilian Sesiidae in the collection of the Universität des Saarlandes, Saarbrücken, Germany (Lepidoptera)

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Abstract

Specimens of Brazilian Sesiidae on loan from the University of Saarlandes, Saarbrücken, Germany (IGUS) were examined, including seven of B. Zukowsky's types in the Marten Collection in the IGUS. The types are redescribed and illustrated. Three new species (*Carmenta leptosoma* **sp. nov.**, *C. plaumanni* **sp. nov.** and *C. splendens* **sp. nov.**) are described, with adults and genitalic structures illustrated; *C. semitrista* (Zuk.) is designated a **new synonym** of *angarodes* Meyrick; and *Carmenta asema* is a **comb. nov.** for *Synanthedon asema* Zuk.

Key words: Lepidoptera, Sesiidae, types, genitalia, distribution, Brazil, new species, synonymy

Introduction

After examining the neotropical clearwing moths (Sesiidae) of the Marten Collection located in the Universität des Saarlandes, Saarbrücken, Germany (IGUS), we herein document the IGUS holdings of Zukowsky's type specimens (Zukowsky 1936). The senior author describes three new Brazilian species. The IGUS collection contains seven of Zukowsky's type species. Overall, Zukowsky described 26 neotropical species (one from Mexico, *Alcathoe altera*, and the rest from South America); 19 of the South American taxa are from Brazil. The collection also has several individual morphotypes which were not described here because of their poor quality and/or lack of additional representatives. Please note the quotation marks used in the Type sections denote information on specimen labels.