

# ADDITIONS AND CORRECTIONS TO WOLCOTT'S «INSECTS OF PUERTO RICO»

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and

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WOLCOTT, in 1948, published an annotated list, "The Insects of Puerto Rico", as a revision of a former check list, "Insectae Portoricensis". These two papers represent the most complete records of the insects of Puerto Rico. New records of the insects for the island have been published since 1948, but no attempts have been made to compile these records into a useful list. Moreover, a revision of the literature available disclosed the need for corrections and changes in names in Wolcott's lists. Our publication is intended to be a compilation of this information. Rather than publishing just a list, we have used Wolcott's work as a basis and made corrections and changes in names wherever needed. This revision is up to May 1966.

The revision of some of the families included in this paper was made by some specialists from the United States National Museum at Washington. Their names and the families that they revised are as follows: Dr. Doris Blake - Chrysomelidae; Dr. Richard H. Foote - Tephritidae; Dr. Curtis W. Sabrosky - Asteidae, Anthomyiidae, Anthomyzidae, Calliphoridae, Chloropidae, Lauxaniidae, Milichidae, Sarcophagidae, Sphaeroceridae, and Tachini-

dae; Dr. G. C. Steyskal - Agromyzidae, Neriidae, Otitidae, Phoridae, Pyrgotidae, and Richardiidae; Dr. Alan Stone - Chaoboridae, Culicidae, Dixidae, Psychodidae, Sciaridae, and Tabanidae; Dr. Willis W. Wirth - Asilidae, Bombyliidae, Ceratopogonidae, Ephydriidae, Phoridae, Stratiomyidae, and Syrphidae. Their names also appear immediately after the names of the families which they revised. They are responsible for the changes they respectively suggest. Their cooperation is greatly appreciated and we feel that without their assistance we could not have fulfilled our goal.

Some new records were obtained from the Zoological Record and the Biological Abstracts, and from many publications screened during the course of our work. Wherever the information was obtained in the abstracted form, the original papers were secured and consulted. Other new records were obtained from the collections of insects of Puerto Rico kept at the Biology Department of the University of Puerto Rico at Mayagüez, and at the United States National Museum.

In "The Insects of Puerto Rico" the 3675 species listed are distributed among 21 orders and 273 families. The list does not include the families in the following orders: Thysanoptera, Collembola, Embioptera, Corrodentia, Mallophaga, Ephemeroptera, Trichoptera, Anoplura, and Thysanura. Wolcott considered the

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7. *Glenanthe litorea* Cresson, det. W. W. Wirth, in DB.
  8. *Helaeomyia nigra* (Williston), from San Juan, det. W. W. Wirth, in USNM collection.
  9. *Hydrochasma incisum* (Coquillett), as *H. leucoprocta* (Loew) in Wolcott, p. 517.
  10. *Limnellia quadrata* (Fallen), det. W. W. Wirth, from Yauco-Lares road, km 22, in USNM collection.
  11. *Nostima abbreviata* Cresson, det. W. W. Wirth, in DB collection.
  12. *Nostima gilvipes* (Coquillett), as *Hydrellia* in Wolcott, p. 517.
  13. *Nostima niveivenosa* Cresson, det. W. W. Wirth, from Yauco-Lares road, Km 22, in DB collection.
  14. *Ochthera loreta* Cresson, det. W. W. Wirth, from Cartagena Lagoon, in USNM collection.
  15. *Paralima multipunctata* Williston, as *P. ciliata* in Wolcott, p. 517.
  16. *Parathyroglossa nitida* (Williston), as *Athyroglossa* in Wolcott, p. 517.
  17. *Paratissa semilutea* (Loew), det. W. W. Wirth, from Guánica, in USNM collection. Literature up till now lists this species as *P. pollinosa* (Williston).
  18. *Physemops* sp., det. W. W. Wirth, from Yauco-Lares road, Km 22, in USNM collection.
  19. *Polytrichophora borinqueni* Cresson, det. W. W. Wirth, Yauco-Lares road, Km 22, in USNM collection.
  20. *Scatella obscura* Williston, det. W. W. Wirth, from Cartagena Lagoon, in USNM collection.
  21. *Zeros calverti* (Gresson), det. W. W. Wirth, from El Yunque, in USNM collection.
  22. *Zeros fenestralis* (Cresson), as *Ilythea* in Wolcott, p. 517.
  23. *Zeros obscurus* (Cresson), det. W. W. Wirth, from Utuado, in USNM collection.
- R. Family HIPPOBOSCIDAE
1. *Ornithoica confluenta* (Say), host: African cattle egret, *Bubulcus ibis*, in DB collection.
- S. Family LAUXANIDAE (notes by Curtis W. Sabrosky).
1. *Physegenua obscuripennis* (Bigot), det. C. W. Sabrosky, in DB collection. This is the only one species of this genus in the West Indies. Puerto Rican record of *Ph. ferruginea* and *Ph. vittata*, Wolcott, p. 499, all refer to *obscuripennis* (31).
  2. *Physoclypeus coquilletti* (Hendel), as *Caliope lutea*, *C. scutellata*, and *Minettia aibonito* in Wolcott, p. 500-501.
- T. Family LONCHAEIDAE
1. *Dasyops* sp., det. C. W. Sabrosky, in USNM collection.
  2. *Silba* sp., as *Carpoloechea* in Wolcott, p. 499.
- U. Family MICROPEZIDAE TYLIDAE.
1. *Nerius cinereus*, placed by Wolcott in this family, p. 513, should be placed in Family Neriidae.
  2. *Grallipeza scurra* (Enderlein), as *Systellapha* in Wolcott, p. 513.
  3. *Taeniptera munda* (Wulp), as *Calobata* in Wolcott, p. 514.
  4. *Tylos limbata* (Roeder), as *Micropeza* in Wolcott, p. 513.
- V. Family MILICHIIDAE (notes by C. W. Sabrosky).
1. *Milichiella* — the series from San Juan on *Chalcas exotica*, recorded by Wolcott in p. 529, is, in part at least, a new species near *Milichiella bisignata* Melander.
  2. *Pholeomyia myopa* Melander, as *P. indecora* in Wolcott, pages 529-530 (86).
  3. *Pholeomyia politifacies* Sabrosky 1949, recorded (86).
- W. Family MUSCIDAE (notes by C. W. Sabrosky and G. C. Steyskal).
1. All Anthomyiidae listed by Wolcott, pp. 495-497, except *Fucellia*, are Muscidae.
  2. *Bithoracochaeta despecta* Walker, listed by Wolcott in the Anthomyiidae, p. 496, is a synonym of *B. leucoprocta* (Wiedemann) (59).