

## A new neuropteran record for the Hawaiian Islands (Chrysopidae)

CATHERINE A. TAUBER<sup>1</sup> & MAURICE J. TAUBER<sup>1</sup> (Department of Entomology, Cornell University,  
Ithaca, New York 14853, USA; email: cat6@cornell.edu)

### Neuroptera: Chrysopidae

#### *Mallada albofacialis* Winterton, 1995      New state record

*Mallada albofacialis* Winterton was first observed on Hawai‘i in 2007 on the island of O‘ahu. A larva was collected in a home in the town of Mililani; the living specimen was transferred, via the Bishop Museum, to the Department of Entomology, University of California, Davis (quarantine laboratory). C.A. and M.J. Tauber reared the specimen to the adult stage; they recognized the larva and adult as a species of *Mallada* that is unlike the only other *Mallada* species known to occur on the Hawaiian Islands. Subsequently, the adult was identified by S.L. Winterton, California Department of Food and Agriculture, Sacramento, California, who had described the species from Australia (Winterton, 1995: 23).

Other than coastal Queensland and the Northern Territories of Australia, the distribution of *M. albofacialis* is unknown. The species is distinguished from *Mallada basalis* (Walker)—the other Hawaiian *Mallada* species—by its pale green body, white face with distinctive red markings, and genital characteristics (cf., Adams 1959: 24, as *Chrysopa basalis*). Images of the larva and adult are available on the MorphoBank website (<http://www.morphobank.org>, Project 459).

*Mallada* larvae are referred to as “trash carriers”, i.e., they cover themselves with plant material (mainly the waxy secretions of their prey). In Australia, *M. albofacialis* larvae were found feeding on exotic, fluted margarodid scales (*Icerya* spp.) in forested areas of moist coastal Queensland (Winterton, 1995: 27).

Because the record is based on a single specimen, it is currently unclear whether the species is established in Hawai‘i.

*Material examined.* One specimen with labels reading: [1] HI: O‘AHU: Honolulu County, South Mililani Town, Pat Sanden; [2] L3 collected 22.v.2007; adult emer. 1.vii.2007; [3] lab. reared M. J. & C. A. Tauber Lot 2007:27; [4] *Mallada albofacialis* Winterton, det. S.L. Winterton 2011 (BPBM).

### Acknowledgments

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### Literature Cited

- Adams, P.A. 1959. Neuroptera; Myrmeleontidae and Chrysopidae. *Insects of Micronesia*, 8(2): 13–33.
- Winterton, S.L. 1995. A new species of *Mallada* Navás (Neuroptera: Chrysopidae) from Australia with a key to species. *Journal of the Australian Entomological Society* 34: 23–27.

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1. Research Affiliate, Department of Natural Sciences, Bishop Museum, 1525 Bernice Street, Honolulu, Hawai‘i 96817, USA.