

Cheiloneurus flaccus (Walker, 1847) (Hymenoptera: Encyrtidae), new to New Zealand

Stephen E. Thorpe ‡

‡ School of Biological Sciences (Tamaki Campus), University of Auckland, Auckland, New Zealand

Corresponding author:

Academic editor: Jose Fernandez-Triana

Abstract

Cheiloneurus flaccus (Walker, 1847) is reported from New Zealand for the first time.

Keywords

Cheiloneurus flaccus, Hymenoptera, Encyrtidae, New Zealand, Auckland, Dryinidae, NZOR

Introduction

Cheiloneurus flaccus a distinctive species of encyrtid found widely in the New World, and also Australia (Guerrieri 2006). It is a parasitoid of dryinids. It is herein newly recorded from Auckland, New Zealand.

Taxon treatment

Cheiloneurus flaccus (Walker, 1847)

Material

- a. country: New Zealand; verbatimLocality: Tamaki Campus of University of Auckland; verbatimLatitude: 36.88661S; verbatimLongitude: 174.85253E; eventDate: 20 April 2013; individualCount: 2; sex: female; recordedBy: Stephen Thorpe; institutionCode: Auckland Museum; occurrenceID: 1878C9D6-0763-5494-9709-F8861FC73B87

Description

On 20 April 2013, while looking for insects in swards of long grass on the Tamaki Campus of the University of Auckland, I noticed two specimens of an unusual looking encyrtid. I collected one of the two specimens (see Figs 1, 2), and identified it as

Cheiloneurus flaccus, using the redescription by Guerrieri and Viggiani (2005). *C. flaccus* is a distinctive species, quite different to the two congeneric species already known from N.Z. The antenna, in particular, is distinctive, with the first segment of the funicle much longer than the pedicel (see Fig. 2). The species is known to be a parasitoid of dryinids. The site where I found *C. flaccus* also abounds with dryinids belonging to two species of *Gonatopus*. Two other species of dryinid (*Bocchus thorpei*, and *Dryinius koebelei*) also occur on the campus. I recommend that *C. flaccus* be added to the New Zealand Organisms Register (NZOR) as exotic, present in the wild.

References

- Guerrieri E (2006) Review of the encyrtid (Hymenoptera, Chalcidoidea, Encyrtidae) parasitoids of Dryinidae (Hymenoptera, Chrysidoidea, Dryinidae): second contribution and description of a new species of *Cheiloneurus*. *Journal of Natural History* 40 (41): 2395-2401. <https://doi.org/10.1080/00222930601088040>
- Guerrieri E, Viggiani G (2005) A review of the encyrtid (Hymenoptera: Chalcidoidea) parasitoids of dryinidae (hymenoptera: Chrysidoidea) with description of a new species of *Cheiloneurus*. *Systematics and Biodiversity* 2 (3): 305-317. <https://doi.org/10.1017/S1477200004001537>



Figure 1.
Cheiloneurus flaccus (female), length about 2 mm



Figure 2.
Cheiloneurus flaccus, female antenna