

INSECTS OF CAMPBELL ISLAND. TRICHOPTERA¹By K. A. J. Wise²

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Abstract: One species of Trichoptera, *Oxyethira albiceps* (McLach.), was found on Campbell I. It is also newly recorded from the Auckland and Chatham Is.

The order Trichoptera (caddis-flies) has not previously been recorded from Campbell I. The 1 species there, *Oxyethira albiceps* (McLachlan, 1862), is the common microcaddis (family Hydroptilidae) of New Zealand where the case-bearing larvae frequent slime-weed in flowing waters. On Campbell I., I (accompanied by Mr. K. P. Rennell of the N. Z. Meteorological Service) discovered adults flying over streams, a few active larvae in slime-weed, and the typical pupal cases on stones in streams, during February–March 1963. It was subsequently found that Dr. J. L. Gressitt had taken a few adults during the previous summer (XI–XII. 1961).

Family HYDROPTILIDAE

Oxyethira albiceps (McLachlan), 1862

CAMPBELL I.: 1♂, Tucker Cove, 1–50 m, *Poa*, 21–25. XI. 1961, J. L. Gressitt; 1♂, Beeman Camp, 2–50 m, *Poa* by stream, 26–30. XI. 1961, Gressitt; 2♂♂, 2♀♀, Tucker Cove, 4 m, by Malaise trap, 1–3 & 18–21. XII. 1961, Gressitt; 19♂♂, 3♀♀, Lookout Bay, swept above stream, 3. II. 1963, 2. III. 1963, K. A. J. Wise; 1♀, *ibid.*, 3. II. 1963, K. P. Rennell; 6♂♂, 1♀, Tucker Cove, banks of stream, 5–6. II. 1963, Rennell; 10♂♂, 1♀, Tucker Cove, swept above stream, 6, 23. II & 3. III. 1963, Wise; 2♂♂, Beeman Camp, at light, 6 & 14. II. 1963, Wise; 1♀, Beeman Camp, 15 m, alive in freshwater tank, 14. II. 1963, Rennell; 3 active larvae, Lookout Bay, ex slime-weed from stream, 2. III. 1963, Wise; numerous pupal cases, Smoothwater Bay, on stones in stream, 16. II & 2. III. 1963, Wise; 13 pupal cases, Tucker Cove, on stones in stream, 3. III. 1963, Wise.

DISTRIBUTION. NEW ZEALAND: Widespread and common throughout the North and South Islands. CAMPBELL I.: Recorded above in three streams. AUCKLAND I.: Not previously recorded but I recently collected it on the northern end and will present records in a forthcoming paper. CHATHAM I.: Not previously recorded but one typical pupal case was collected by the Chatham Island 1954 Expedition. This specimen, now in the Canterbury Museum, was first examined and determined by Mr. A. G. McFarlane, of Christchurch, N. Z. Mr. McFarlane and the Director, Canterbury Museum, have kindly

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given permission for this record to be included here. The species record will, however, have to be confirmed by collection of adults.

As yet there is no indication as to how *Oxyethira albiceps* became thus distributed. On Campbell I. immature stages were found in two streams (Tucker Cove, Lookout Bay) flowing into Perseverance Hbr. and one stream (Smoothwater Bay) on the east coast. In these streams they were less than 30 m above sea-level and within 400 m of the sea-shore but further investigation may prove them to occur more extensively.