

Identification Key to Campbell Island Freshwater Invertebrates

McMurtrie, Sinton & Winterbourn (2014)



Austridotea lacustris (Thomson, 1879) INFORMATION SHEET

Classification

Phylum:	Crustacea
Class:	Malacostraca
Order:	Isopoda
Family:	Idoteidae
Genus:	<i>Austridotea</i>
Specific name:	<i>lacustris</i>
Common name:	Water louse, isopod
Original combination:	<i>Idotea lacustris</i> Thomson, 1879 <i>Notidotea lacustris</i> Thomson, 1879



FIGURE 1. *Austridotea lacustris* dorsal view

Distinguishing Features

- Body brown, dorso-ventrally flattened (Figs. 1, 2); length up to about 15 mm.
- First antennae short, second antennae long and prominent (Fig. 1); 7 pairs of walking legs.
- Posterior margin of body (the pleotelson) rounded (Fig. 1).



FIGURE 2. *Austridotea lacustris* lateral view

Comments

The species was transferred from *Notidotea* to *Austridotea* by Poore (2001), and its relationship to the other two New Zealand species of *Austridotea* was investigated by Chadderton *et al.* (2003) and McGaughran *et al.* (2006). *A. lacustris* is found on the southern South Island of New Zealand, Stewart Island, Campbell Island and Pitt Island (Chatham Islands).

Original Description

Idotea lacustris Thomson (1879)

References & Further Reading

- Chadderton, W.L., Ryan, P.A. & Winterbourn, M. J. 2003. Distribution, ecology, and conservation status of freshwater Idoteidae (Isopoda) in southern New Zealand. *Journal of the Royal Society of New Zealand* 33: 529–548.
- Chapman, M.A., Lewis, M.H. & Winterbourn, M.J. 2011. *Guide to the freshwater Crustacea of New Zealand*. New Zealand Freshwater Sciences Society. 188pp.
- Joy, M.K. & Death, R.G. 2000. Stream invertebrate communities of Campbell Island. *Hydrobiologia* 439: 115–124.

McGaughran, M.C., Hogg, I.D., Stevens, M.I., Chadderton, W.L. & Winterbourn, M.J. 2006. Genetic divergence of three freshwater isopod species from southern New Zealand. *Journal of Biogeography* 33: 23–30.

Nicholls, G.E. 1937. On the freshwater Idoteidae of New Zealand (Crustacea, Isopoda). *Annals and Magazine of Natural History Series 10* 19 (109): 113-136.

Poore, G.C.B. 2001. Isopoda Valvifera: diagnoses and relationships of the families. *Journal of Crustacean Biology* 21: 205-230.

Thomson, G.M. 1879. New Zealand Crustacea, with descriptions of new species. *Transactions and Proceedings of the New Zealand Institute* 11: 230-248, Plate 10.

How to Cite this Information Sheet

McMurtrie, S.A., Sinton, A.M.R., & Winterbourn, M.J. 2014. Lucid Identification Key to Campbell Island Freshwater Invertebrates: *Austridotea lacustris* information sheet. EOS Ecology, Christchurch, New Zealand.

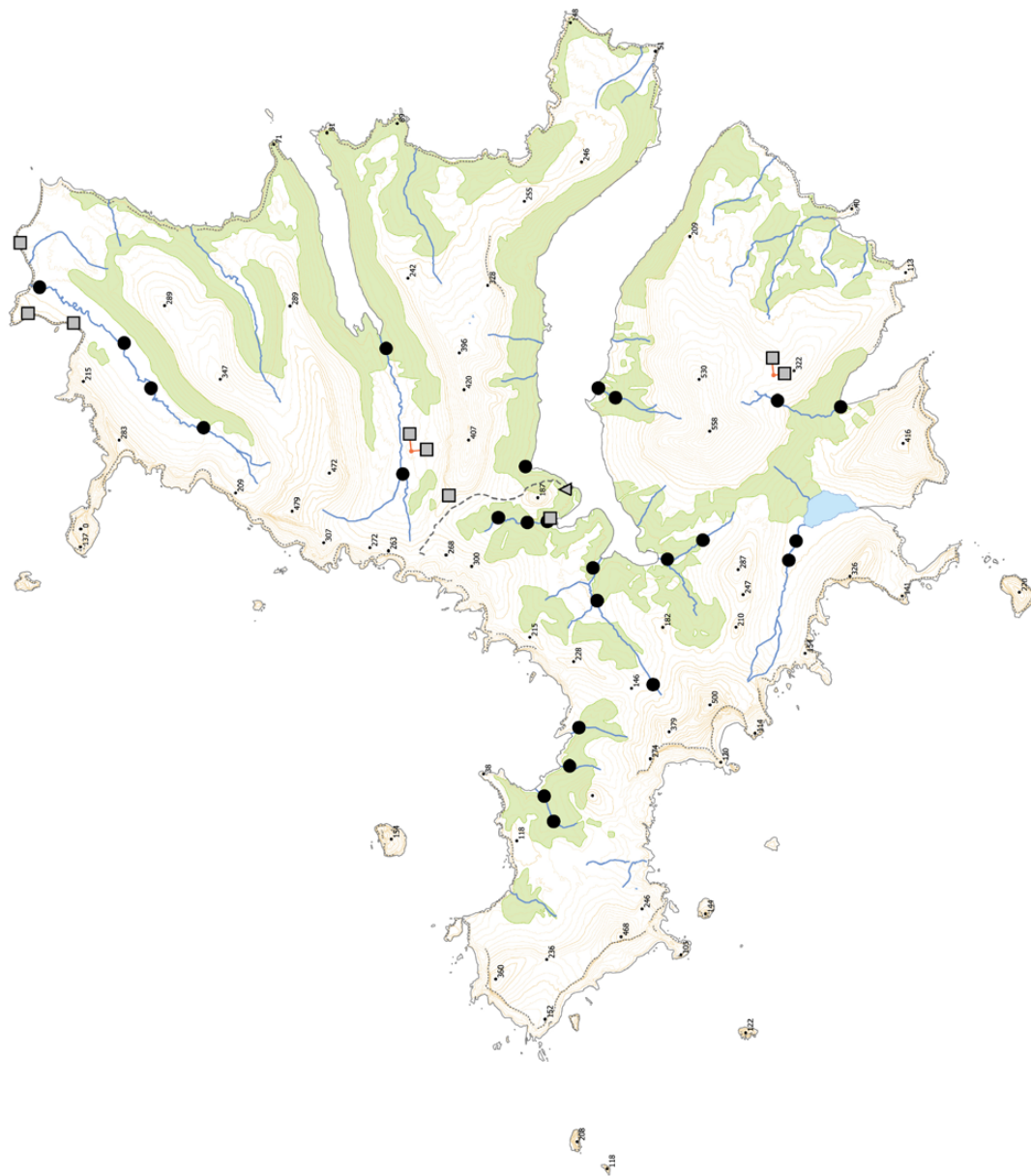
ACKNOWLEDGEMENTS – The creation of the Lucid Key and information sheets were supported by the TFBIS (Terrestrial and Freshwater Biodiversity Information System) Fund administered by the Department of Conservation (TFBIS Contract No. 278), and by EOS Ecology. Invertebrate specimens were collected by EOS Ecology during the 2010–11 Campbell Island Bicentennial Expedition (CIBE), made possible by the 50° South Trust.



Biogeographic Information

Presence/absence on streams, tarns, and a seepage sampled on Campbell Island.

Distribution map based on surveys undertaken by EOS Ecology during the 2010–11 Campbell Island Bicentennial Expedition (www.campbellisland.org.nz). Distribution data © EOS Ecology, 2013.



Scale = 1 km

New Zealand Transverse Mercator
New Zealand Geodetic 2000
Created on: 3 December 2013
Created by: Kirsty Brennan

Austridotea lacustris Distribution
CAMPBELL ISLAND
December 2010–February 2011

Produced by:
EOS Ecology
Campbell Island Bicentennial Expedition
Project name:
06033-EOS01
Project no.:
Shelley McMurtrie
Project lead:
www.eosecology.co.nz

