



Family Hemicorduliidae

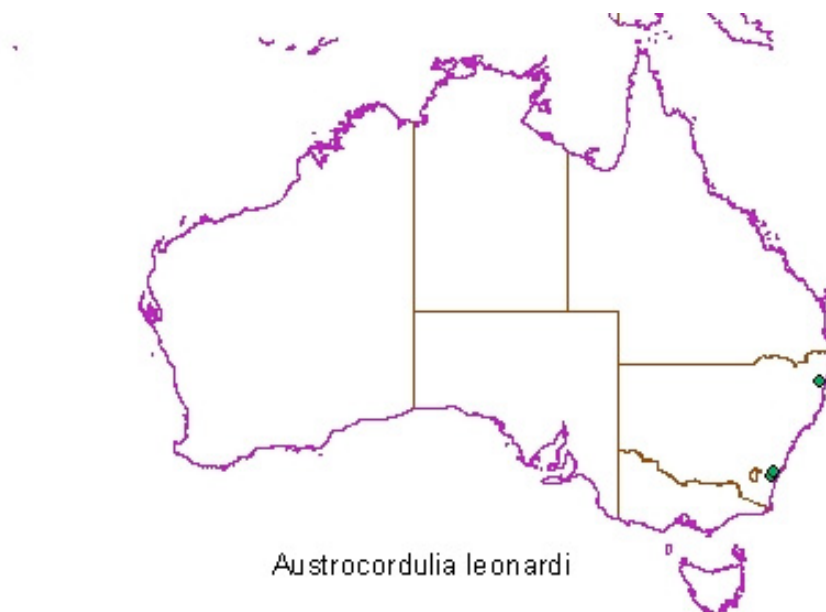
Habitat Profile for *Austrocordulia leonardi* Theischinger

Austrocordulia leonardi Theischinger is restricted in its distribution to the Sydney area in New South Wales (Houston and Watson 1988; Watson *et al.* 1991) although Theischinger (2001) recorded an exuvium from the Rockhampton area. In this study they were recorded from 3 samples from the Clarence and Clyde catchments on the east coast of New South Wales. Only two samples had environmental data and so the profiles are only presented as a table of results.

Austrocordulia leonardi was found in edge and pool habitats in lowland streams below altitudes of 120m, and <33km from the stream source with substrate dominated by bedrock, boulder and cobble with <35% detrital cover. The streams were <0.4m deep and <50m wide with low alkalinity <50mg/L and with low conductivity <120 μ S/cm (Fig. g).

The following generalities can be made about the other parameters listed in the Table: water temperature between 14.3-16.8 °C, pH was near neutral in the range of 7-8 and low to high turbidity (2.3-2.5 NTU).

Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Austrocordulia leonardi* in Australia.



Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Austrocordulia leonardi* (N= number of records).

	Range	N
Altitude (m)	60-120	2
Distance from source (km)	8-33.7	2
Width (m)	2-4	2
Depth (m)	0.2-0.4	2
Water temperature (°C)	14.3-16.8	2
Conductivity (µS/cm)	44-120	2
pH	7.0-8.0	2
Turbidity (NTU)	2.3-2.5	2
Oxidised Nitrogen (mg/L)		
Total N (mg/L)		
Total P (mg/L)		
Alkalinity (mg/L)	11-50	2

References

Houston WWK, Watson JAL (1988) Odonata. In 'Zoological Catalogue of Australia'. (Eds DW Walton and WWK Houston) pp. 33-132. (Australian Government Publishing Service: Canberra)

Theischinger G (2001) 'Preliminary keys for the identification of larvae of the Australian Synthemistidae, Gomphomacromiidae, Pseudocorduliidae, Macromiidae and Austrocorduliidae.' (Cooperative Research Centre for Freshwater Ecology: Albury)

Watson JAL, Theischinger G, Abbey HM (1991) 'The Australian Dragonflies. A guide to the identification, distributions and habitats of Australian Odonata.' (CSIRO: Canberra and Melbourne)