



Family Gomphidae

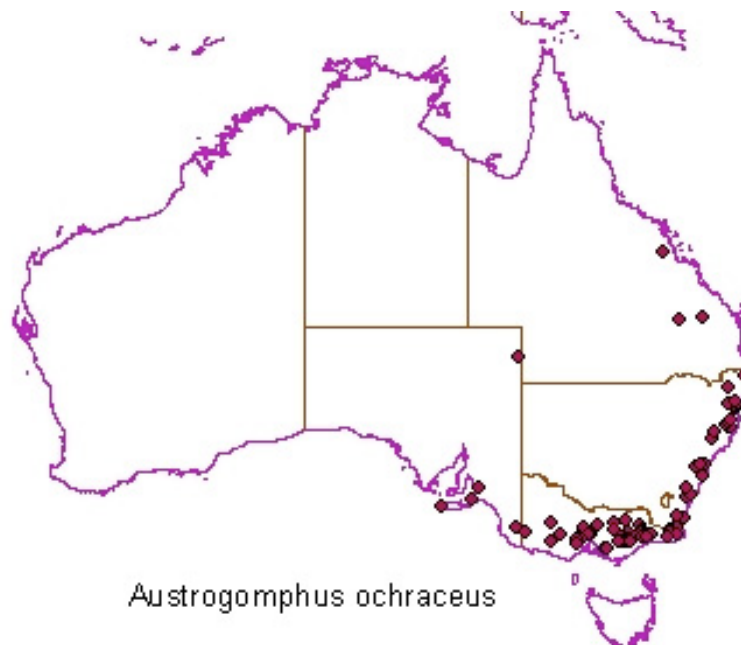
Habitat Profile for *Austrogomphus ochraceus* (Selys)

Austrogomphus ochraceus (Selys) is a widespread species found in the eastern states of Australia including Tasmania and South Australia (Theischinger 2000; Watson *et al.* 1991). They were recorded from 110 samples from north east Queensland to South Australia and near the Queensland South Australian border in this study. This species was not recorded from Tasmania in this study.

Armogomphus ochraceus was generally found in edge and sweep habitats on the side of streams generally below altitudes of 500m (Chart a), but <80km from the stream source (Chart b) with substrate dominated by cobbles and boulders with <20% detrital cover (Chart c). The streams were generally <0.3m deep (Chart e) and <25m wide (Chart d) with low alkalinity generally <100mg/L (Chart f) and with moderate conductivity ranging from 19 to 4530 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: water temperature between 11-24 °C, pH was in range of 4.8-8.5 and low to high turbidity (0.2-110 NTU).

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



Distribution of *Austrogomphus ochraceus* in Australia.

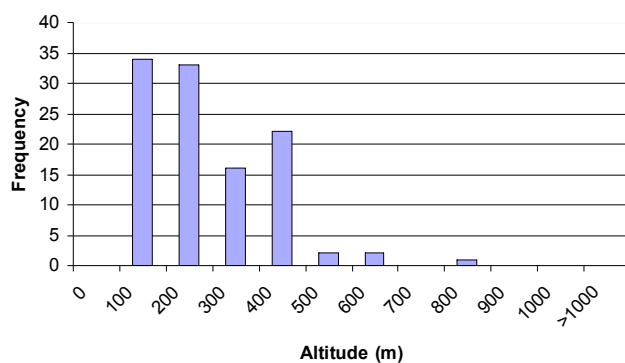


Austrogomphus ochraceus, nymph and typical habitat

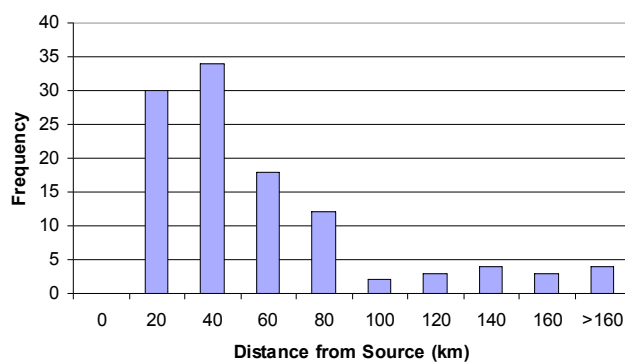


Charts for *Austrogomphus ochraceus*

a) Altitude

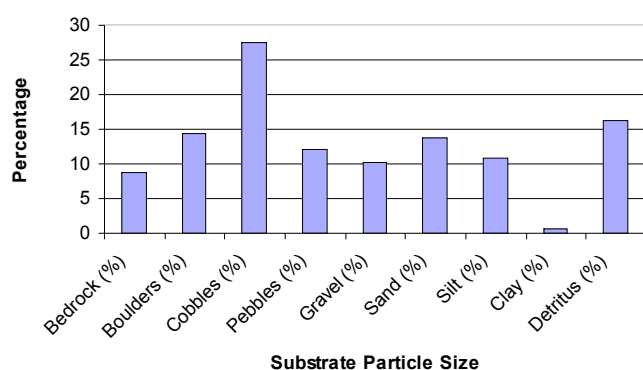


b) Distance from source

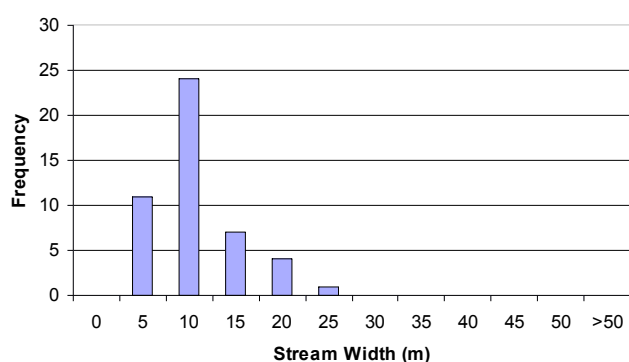




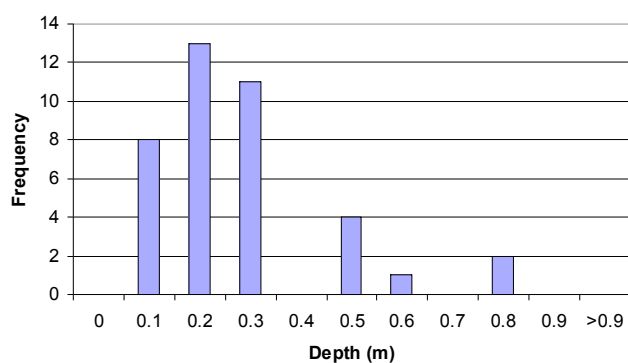
c) Substrate Particle Size



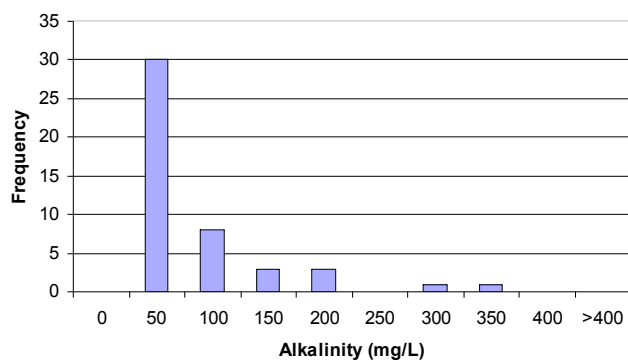
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

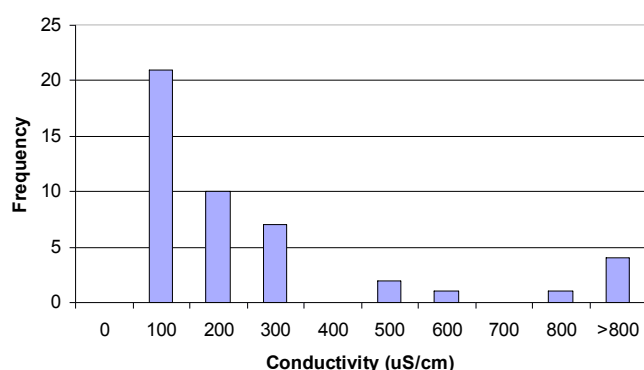


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Austrogomphus ochreus* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	194	160	5-730	110
Distance from source (km)	49.8	33.3	0.6-264	110
Width (m)	9.3	8.0	1-25	47
Depth (m)	0.26	0.20	0.01-0.80	39
Water temperature (°C)	17.8	17.5	11-24	46
Conductivity (µS/cm)	347	121	19-4530	46
pH	7.4	7.5	4.8-8.5	45
Turbidity (NTU)	8.9	1.8	0.2-110	38
Oxidised Nitrogen (mg/L)	0.030	0.010	0.003-0.350	40
Total N (mg/L)	0.896	0.890	0.300-1.86	9
Total P (mg/L)	0.046	0.011	0.005-0.507	43
Alkalinity (mg/L)	59.2	30.0	10-336	46

References

Theischinger G (2000) 'Preliminary key for the identification of larvae of the Australian Gomphidae.' (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)