



FAMILY ECNOMIDAE

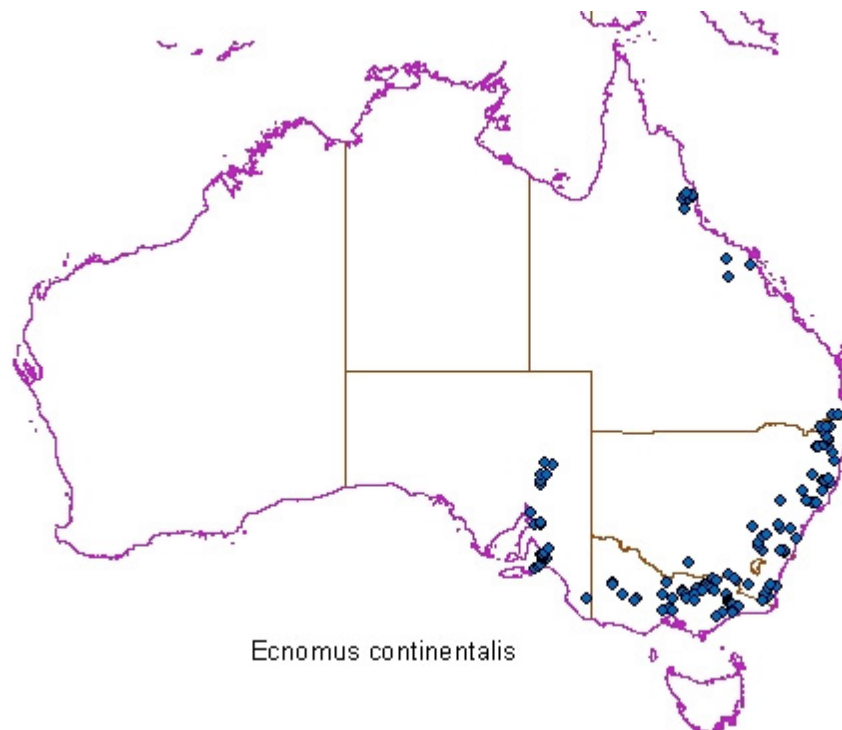
Habitat profile for *Ecnomus continentalis* Ulmer

Ecnomus continentalis was recorded from 245 South Australian, Victorian, New South Wales and Queensland localities in this study. It is a very widespread and common species in lotic and occasionally lentic waters, with adults previously recorded from southern SA, through eastern Australia to north east Queensland and one site in southern Northern Territory (Cartwright 1990).

In this study, *E. continentalis* was generally recorded in edge, sweep, kick and riffle habitat samples from streams below 900 m altitude (Chart a), <264 km from the source (Chart b), with predominantly cobble substrate with <20% detritus cover (Chart c). Streams were small to large usually <40 m wide (Chart d), depth <0.6 m (Chart e), with low to high alkalinity <460 mg/L (Chart f) and moderate to very high conductivity mostly below 4800 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: moderate to high recorded water temperature (range between 10-29 °C), pH generally slightly alkaline (between 6.5-9.2), and low to moderate turbidity <44 NTU.

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



Ecnomus continentalis

Distribution of *Ecnomus continentalis* in Australia.

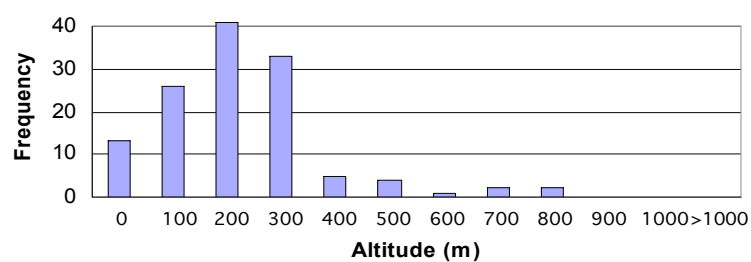


Ecnomus continentalis, larval head and typical habitat

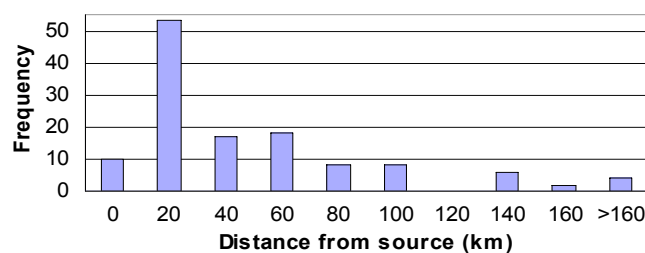


Charts for *Ecnomus continentalis*

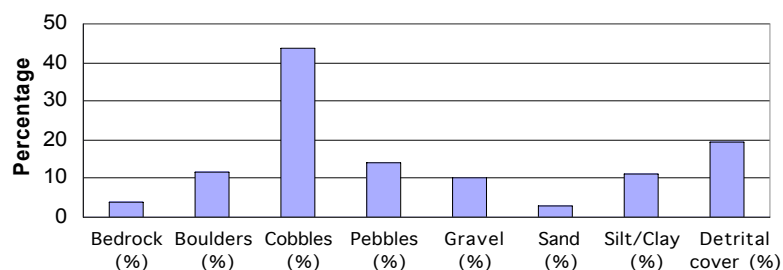
a) Altitude



b) Distance from source

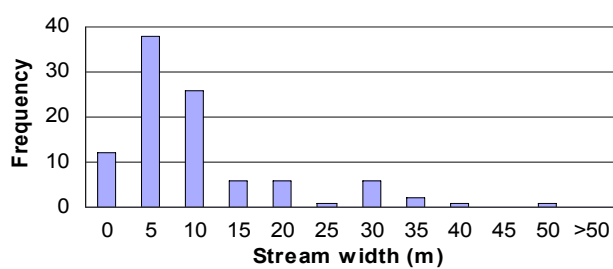


c) Substrate Particle Size

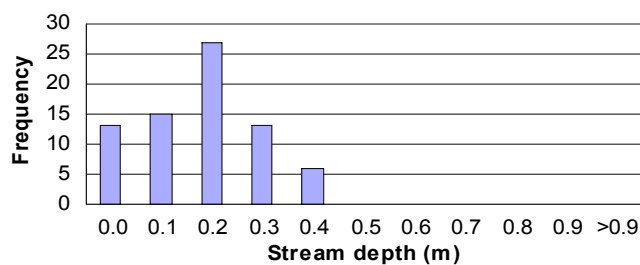




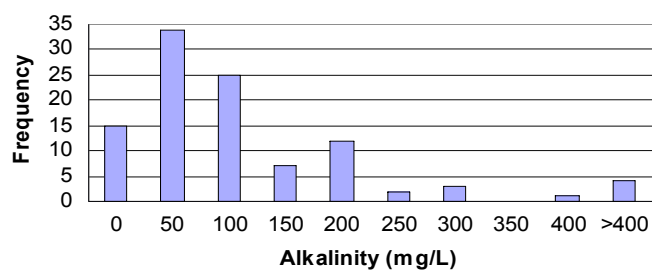
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

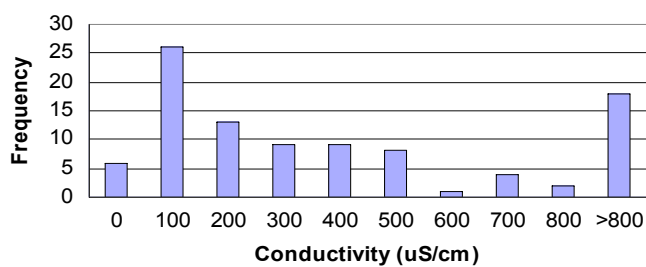




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *E. continentalis* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	242	200	0-990	242
Distance from source (km)	64	49	1.6-263	241
Stream width (m)	12.5	9.8	1.5-50	147
Stream depth (m)	0.24	0.2	0.04-0.6	118
Water temperature (°C)	18.4	17.8	10-35.7	147
Conductivity (µS/cm)	778	217	3-13400	147
pH	7.7	7.8	5.9-9.2	145
Alkalinity (mg/L)	93	53	10-590	147
Turbidity (NTU)	10.8	2.5	0-597	140
Total N (mg/L)	0.77	0.44	0.16-11.4	46
NO ₃ -N (mg/L)	0.064	0.016	0.002-1.0	121
Total P (mg/L)	0.035	0.017	0.005-0.6	142

References

Cartwright DI (1990) The Australian species of *Ecnomus* McLachlan (Trichoptera: Ecnomidae). *Memoirs of the Museum of Victoria* **51**, 1-48.