



## FAMILY ECNOMIDAE

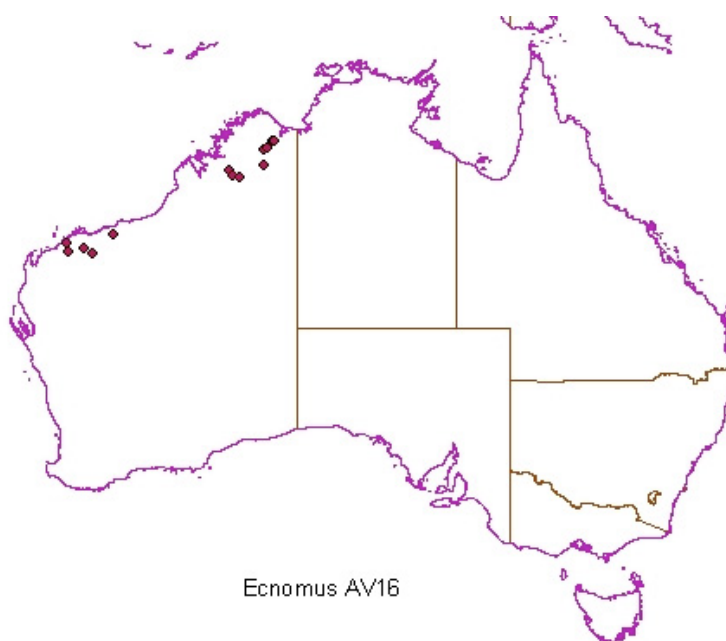
### Habitat profile for *Ecnomus* sp. AV16

*Ecnomus* sp. AV16 was recorded from 31 northern Western Australian localities in this study. Larvae of this widespread northern Australian species have also previously been recorded from the Northern Territory and north eastern Queensland (Cartwright, pers. com.).

*Ecnomus* sp. AV16 was recorded in pool, macrophyte and channel habitat samples from low to moderate altitude streams between 20-450 m (Chart a), between 15-490 km from the source (Chart b), with low to high alkalinity between 8-230 mg/L (Chart c) and moderate to high conductivity between 25-878  $\mu$ S/cm (Chart d).

The following generalities can be made about the other parameters listed in the Table: relatively high recorded water temperature (range from 20.4 to 31 °C), circum-neutral pH between 6.2-8.6, and low turbidity <17 NTU.

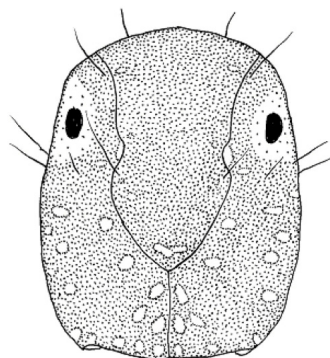
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Ecnomus* sp AV16 in Australia.

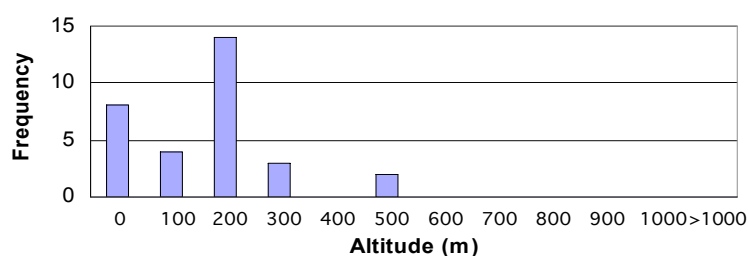


*Ecnomus* sp AV16, head

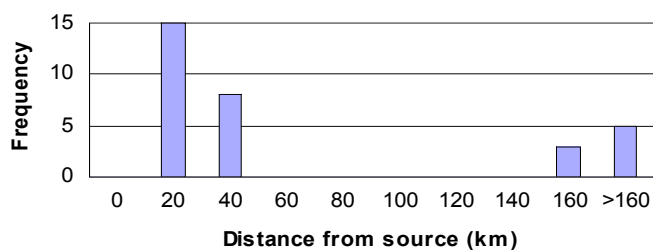


Charts for *Ecnomus* sp AV16

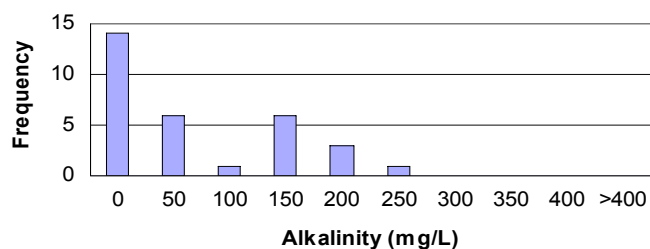
a) Altitude



b) Distance from source

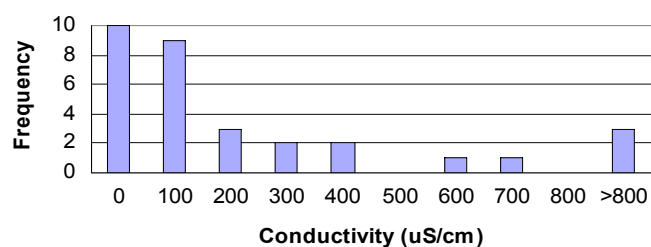


c) Alkalinity





d) Conductivity



**Table.** Mean, median and range for selected physical and chemical parameters and habitat categories for *Ecnomus* sp. AV16 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	172	190	20-450	31
Distance from source (km)	102	35	15-600	31
Stream width (m)				
Stream depth (m)				
Water temperature (°C)	25.2	24.5	20.4-31	31
Conductivity (µS/cm)	233	80	25-1112	31
pH	7.1	7.1	5.15-9.05	31
Alkalinity (mg/L)	74	30	8-230	31
Turbidity (NTU)	5.9	2.5	0.6-55	31
Total N (mg/L)	0.33	0.33	0.09-1.0	31
NO <sub>3</sub> -N (mg/L)	0.024	0.01	0.01-0.13	31
Total P (mg/L)	0.011	0.01	0.005-0.04	31
P SR (mg/L)	0.008	0.005	0.005-0.03	31