



Family Baetidae

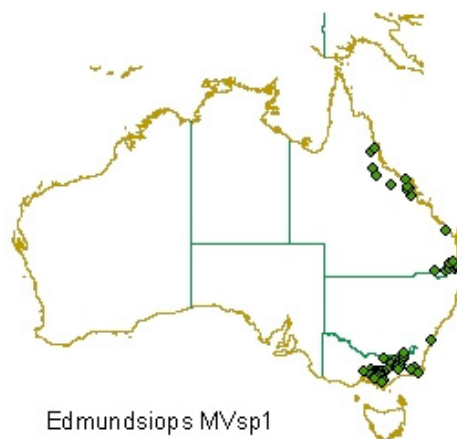
Habitat Profile for *Edmundsiops* MV sp1

Edmundsiops MVsp1 was widespread on the east coast drainage being recorded from 168 samples in Victoria, New South Wales and to northern Queensland. This distribution is consistent with that recorded by Suter (1997) although there were many more locations in this study. (Marchant *et al.* 1985) recorded this species from high altitude in Victorian streams but there was no significant environmental parameter that correlated with its distribution.

Edmundsiops MVsp1 was generally recorded mainly in sweep and edge samples with riffle and pool rock habitat samples also occurring. Records were from streams generally below 400 m altitude (Chart a), generally < 20 km from the source (Chart b), with predominantly cobbles on sand and pebbles substrate with <10% detritus cover (Chart c). The streams were between 0.4-30 m wide (Chart d) and less than 0.7m deep (Chart e), with low to moderate alkalinity between 2.3-400 mg/L (Chart f) and low to moderate conductivity generally below 300 μ S/cm but as high as 745 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 4.5-32.5 °C, pH circum-neutral, mostly in range of 5.9-8.8, and low turbidity 0.3-22 NTU.

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



Distribution of *Edmundsiops* MVsp1 in Australia.

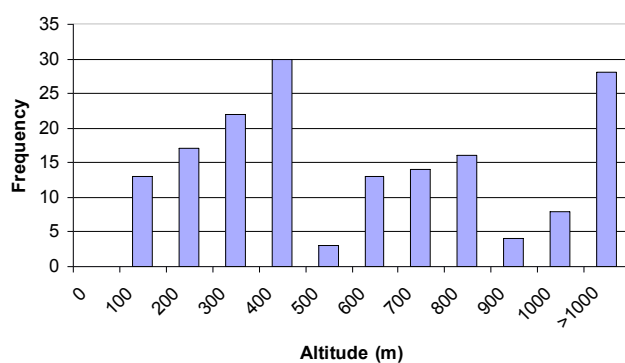


Edmundsiops MVsp1, nymph and typical habitat

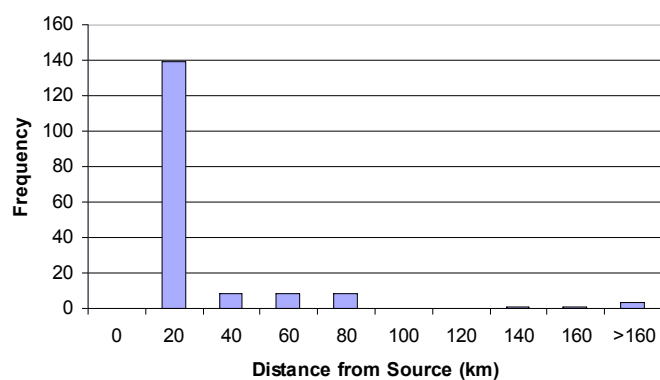


Charts for *Edmundsiops* MVsp1

a) Altitude

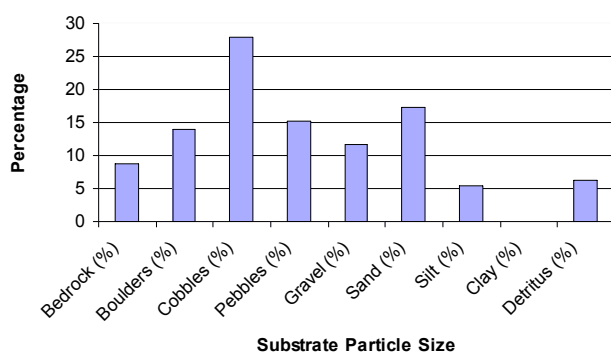


b) Distance from source

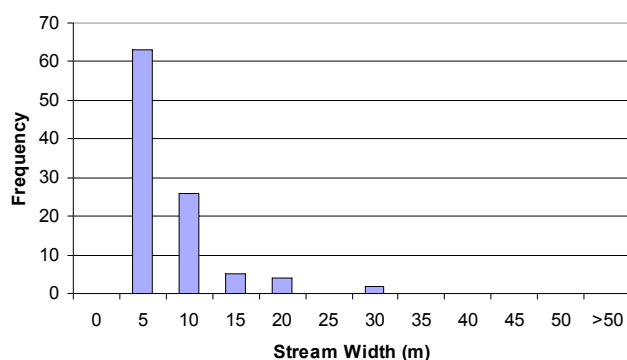




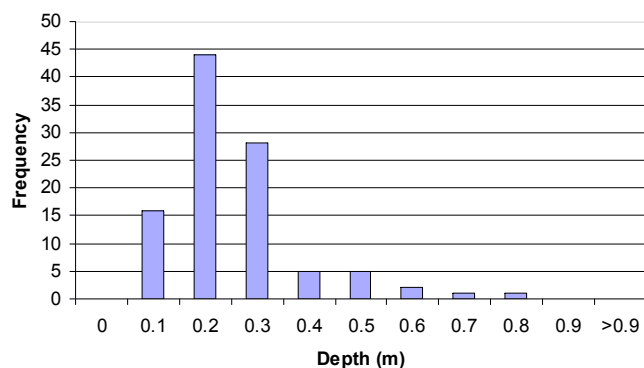
c) Substrate Particle Size



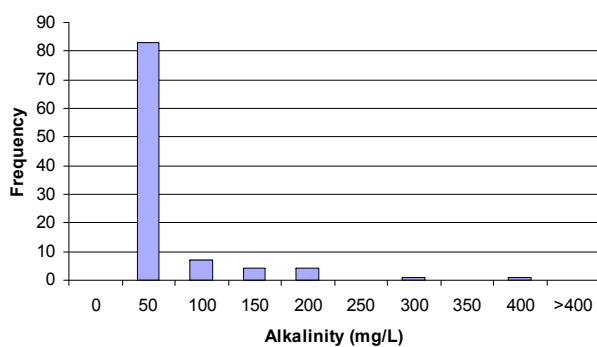
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

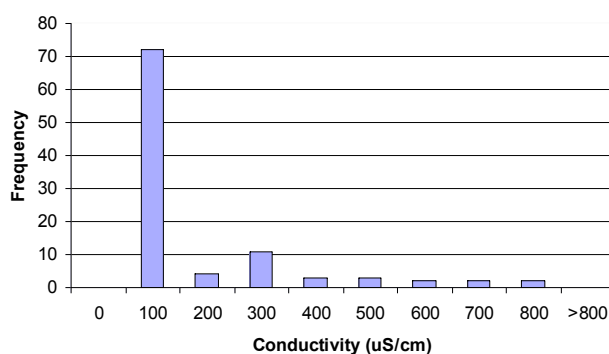


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Edmundsiops* MVsp1 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	595	454	13.7-1740	168
Distance from source (km)	21	11	0.1-375	168
Stream width (m)	5.8	4	0.4-30	100
Stream Depth (m)	0.22	0.20	0.04-0.73	102
Water temperature (°C)	13.5	12.4	4.5-32.5	100
Conductivity (µS/cm)	112.3	40.4	3.2-745	98
pH	7.4	7.4	5.9-8.8	98
Turbidity (NTU)	3.8	2.5	0.28-22	95
NO ₃ -N (mg/L)	0.135	0.120	0.003-0.61	73
Total N (mg/L)	0.325	0.310	0.090-0.810	22
Total P (mg/L)	0.027	0.019	0.005-0.510	92
Alkalinity (mg/L)	35.3	11.0	2.3-400	100

References

Marchant R, Metzeling L, Graesser A, Suter P (1985) The organisation of macroinvertebrate communities in the major tributaries of the La Trobe River, Victoria, Australia. *Freshwater Biology* **15**, 315-331.

Suter PJ (1997) 'Preliminary Guide to the identification of nymphs of Australian Baetid Mayflies (Insecta : Ephemeroptera) found in flowing waters. Identification Guide No. 14.' (Co-operative Research Centre for Freshwater Ecology: Albury)