



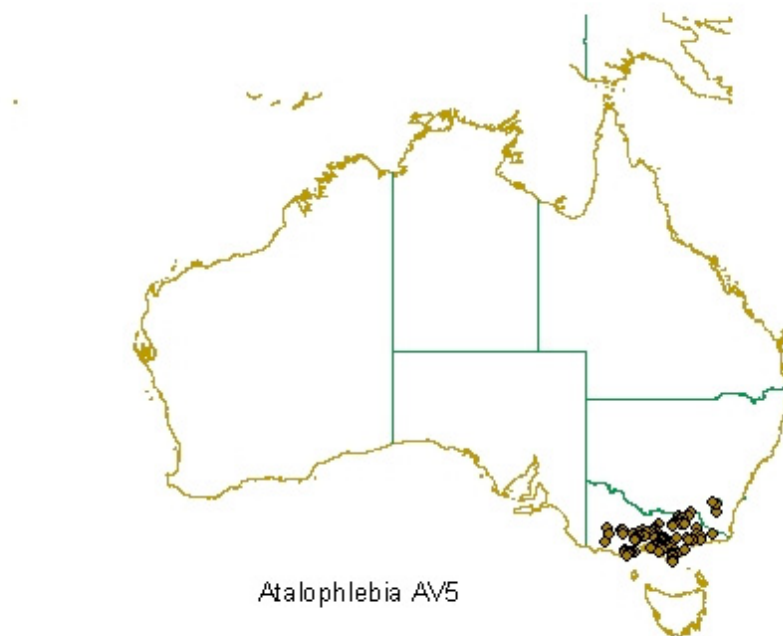
Family Leptophlebiidae Habitat Profile for *Atalophlebia* AV5

Atalophlebia sp. AV5 was recorded from 150 Victorian and ACT localities in this study. This species was previously recorded only from Victoria (Dean 1999).

In this study, *Atalophlebia* sp. AV5 was generally recorded in sweep habitat samples from streams between 20-470 m altitude (Chart a), between 2-74 km from the source (Chart b), with predominantly medium sized substrates of cobbles and pebbles (Chart c). Streams were <22 m wide (Chart d), with mean water depth between 0.05-0.3 m (Chart e), alkalinity between 5-160 mg/L (Chart f) and medium to high conductivity between 20-890 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in Table: recorded water temperature between 8-22 °C, pH mostly near neutral, in range of 6-8 and very low turbidity (<17 NTU).

Mean, median and range for selected physical and chemical parameters and habitat categories are given in Table 1.



Distribution of *Atalophlebia* AV5 in Australia.

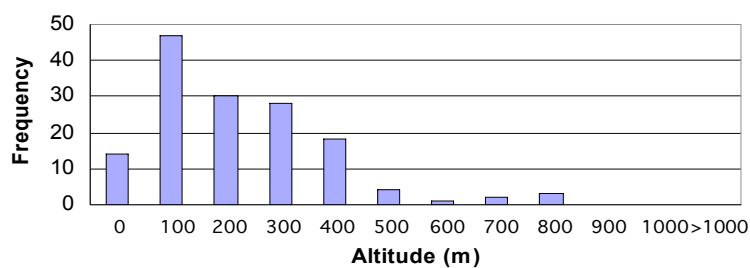


Atalophlebia AV5, nymph and typical habitat

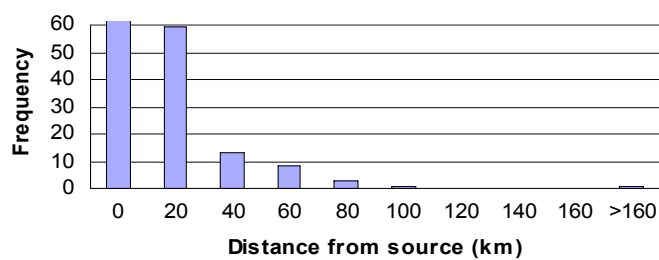


Charts for *Atalophlebia* AV5

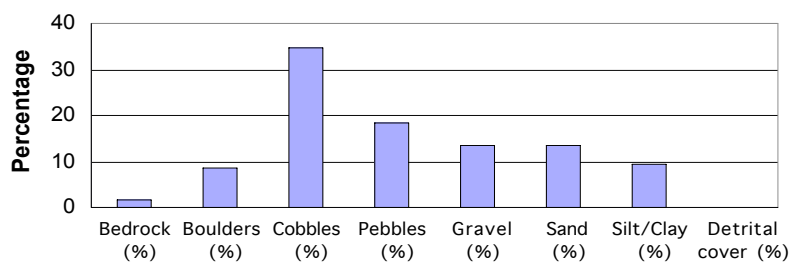
a) Altitude



b) Distance from source

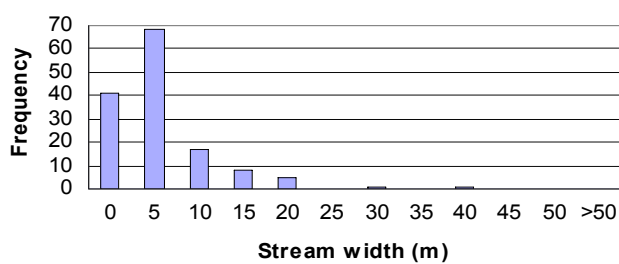


c) Substrate Particle Size

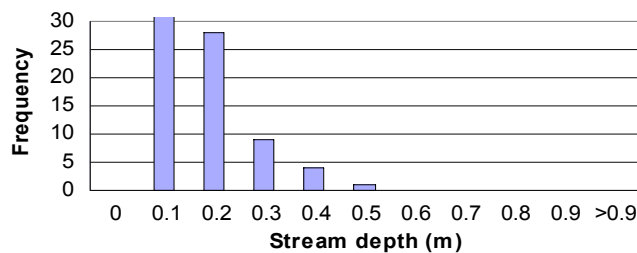




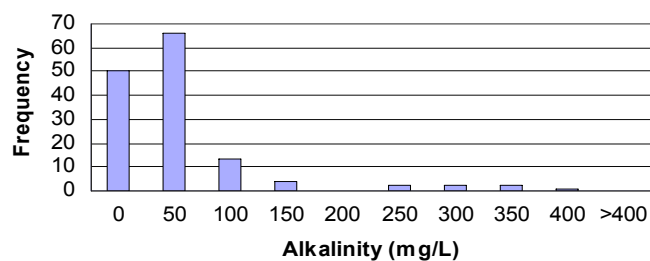
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

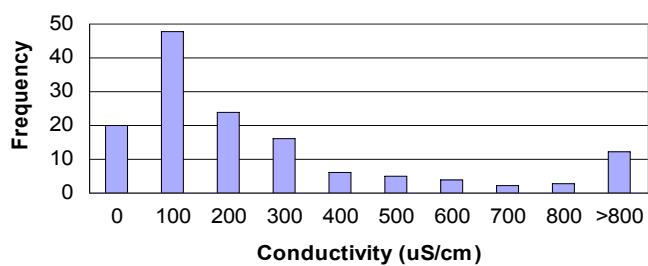




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Atalophlebia* sp. AV5 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	227	200	10-940	147
Distance from source (km)	19.6	11	2-186	147
Stream width (m)	5.7	4.0	1.0-40	141
Stream depth (m)	0.18	0.16	0.05-0.47	73
Water temperature	14.8	14.6	7.9-22.2	141
Conductivity (μ S/cm)	381	158	15-7000	141
pH	7.3	7.3	5.55-8.9	141
Turbidity (NTU)	6.7	5.0	0.5-38	140
NO ₃ -N (mg/L)	0.23	0.07	0-2.7	124
Total N (mg/L)				
Total P (mg/L)	0.057	0.025	0.005-0.82	133
Alkalinity (mg/L)	53	30	5-400	140

References

Dean JC (1999) 'Preliminary key to the Australian mayfly nymphs of the family Leptophlebiidae. Identification guide No. 20.' (Cooperative Research Centre for Freshwater Ecology: Albury)