



## Family Leptophlebiidae

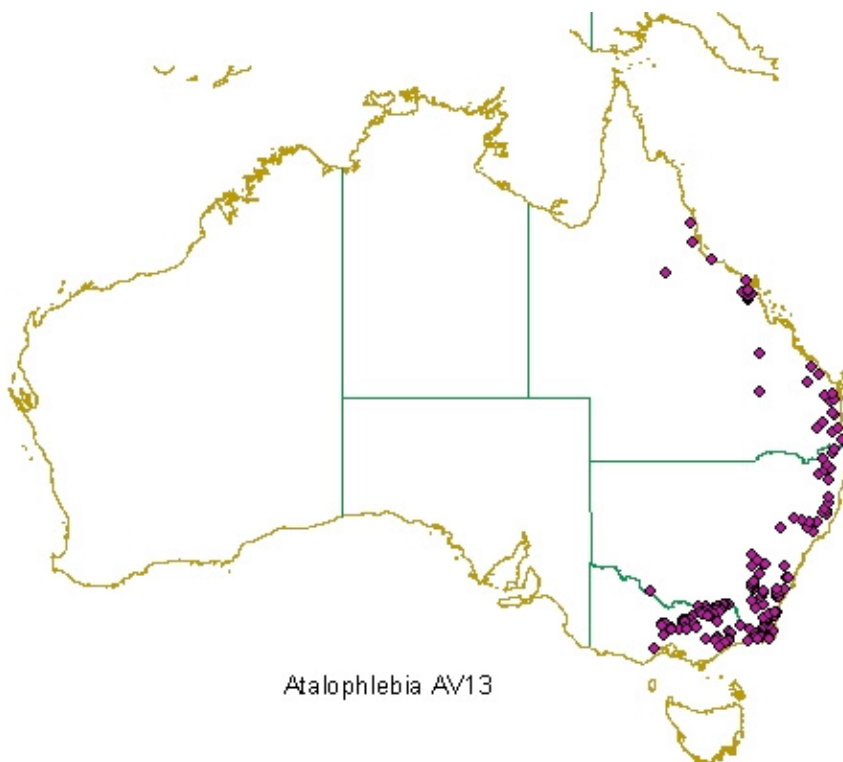
### Habitat Profile for *Atalophlebia* AV13

*Atalophlebia* sp. AV13 was recorded from 240 samples from Victoria, New South Wales, ACT and Queensland. Most locations were in the eastern drainages, but this species also was recorded in the western drainages of the Murray-Darling Basin, and in inland Queensland.

In this study, *Atalophlebia* sp. AV13 was recorded mainly in edge and riffle habitat samples from streams mainly <400 m altitude (Chart a), between 1 and 260 km from the source (Chart b), with an even spread of medium substrates from cobbles to sand and with high (20%) detritus cover (Chart c). The streams were <20 m wide (Chart d), <0.7 m deep (Chart e), with alkalinity between 5-340mg/L (Chart f) and medium to high conductivity ranging from 4-2270µS/cm (Chart g).

The following generalities can be made about the other parameters listed in Table 1: water temperature range 6.8-28.7 °C, circum-neutral pH, mostly in range of 6.0-8.6, mainly low to medium turbidity (<42 NTU) and the streams generally flow through medium-light grazing land with cleared vegetation.

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



Distribution of *Atalophlebia* AV13 in Australia.

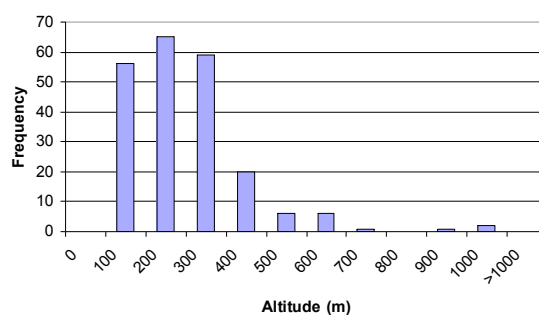


*Atalophlebia* AV13, nymph and typical habitat

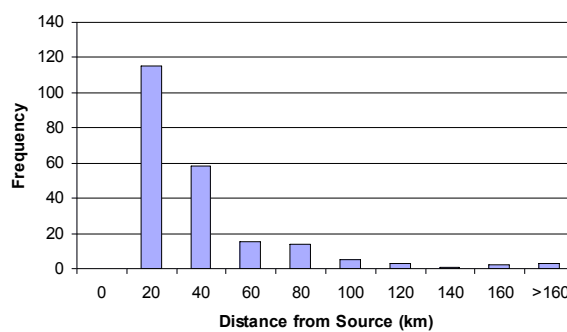


Charts for *Atalophlebia* AV13

a) Altitude

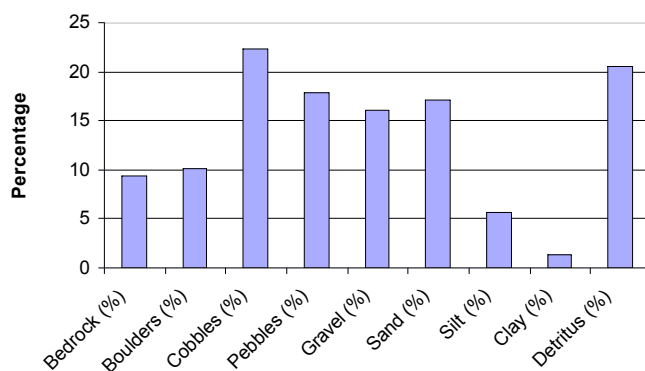


b) Distance from source

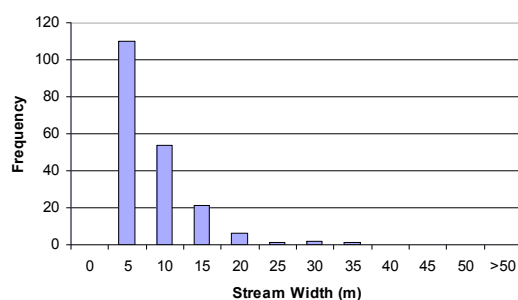




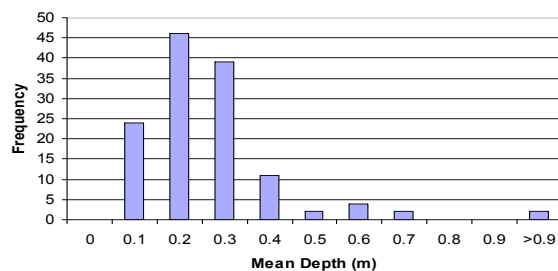
c) Substrate Particle Size



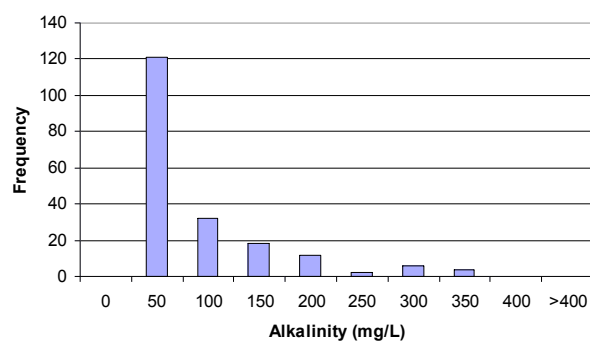
d) Stream Width



e) Depth

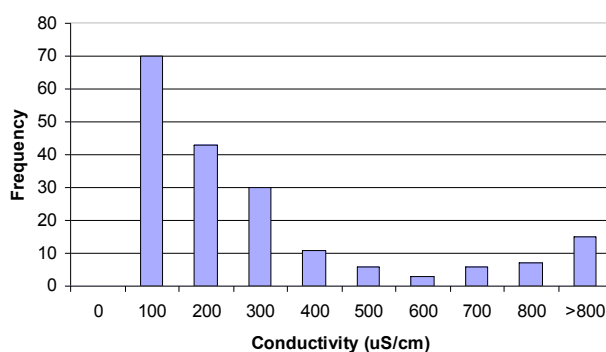


f) Alkalinity





g) Conductivity



**Table.** Mean, median and range for selected physical and chemical parameters and habitat categories for *Atalophlebia* sp. AV13 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	202	187	10-980	216
Distance from source (km)	30	19	0.7-264	216
Stream width (m)	6.62	5.0	1.0-35	191
Stream depth (m)	0.24	0.2	0.04-1.4	130
Water temperature	17.9	17.8	6.8-28.7	191
Conductivity ( $\mu$ S/cm)	286	155	4-2273	191
pH	7.5	7.5	5.1-8.8	191
Turbidity (NTU)	7.7	3.9	0-141	181
NO <sub>3</sub> -N (mg/L)	0.115	0.03	0.003-1.8	151
Total N (mg/L)	0.32	0.14	0-2.65	78
Total P (mg/L)	0.08	0.019	0.005-3.6	186
Alkalinity (mg/L)	71	44	5-340	181