



Family Leptophlebiidae

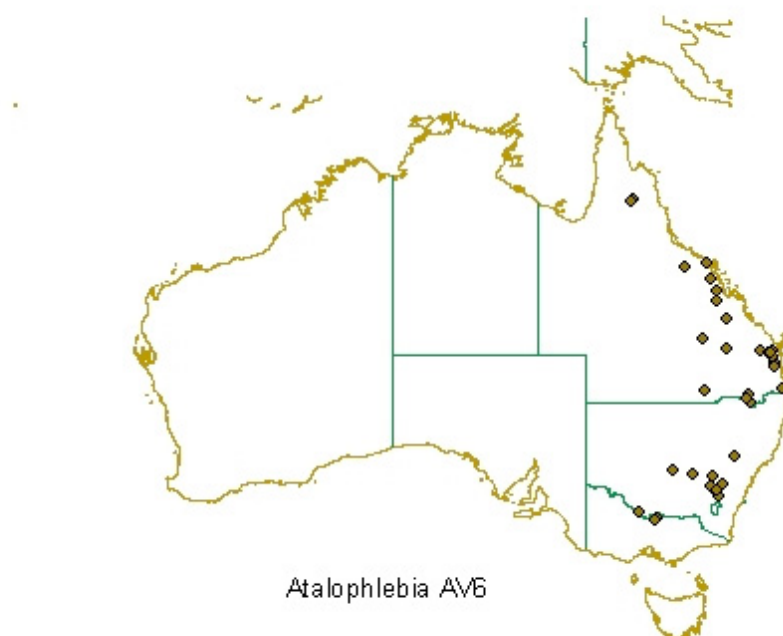
Habitat Profile for *Atalophlebia* AV6

Atalophlebia sp. AV6 was recorded from 43 Queensland, New South Wales and Victorian localities in this study. South of the Queensland border this species was recorded from catchments draining to the west and inland in the Murray-Darling Basin.

In this study, *Atalophlebia* sp. AV6 was recorded evenly in edge, kick and riffle samples from streams mainly <500 m altitude (Chart a), <267 km from the source (Chart b), with predominantly sand and cobble substrate and with low to moderate detritus cover (Chart c). The streams were <40 m wide (Chart d), with depth <0.5 m (Chart e), low to moderate alkalinity between 20-205 mg/L (Chart f) and medium to high conductivity 135-840 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in Table 1: water temperature range 16.5-28 °C, alkaline pH mostly in range of 7.2-8.5, and commonly low to moderate turbidity (<40 NTU), and the streams generally flow through land with non-irrigated cropping or heavy grazing to medium-light grazing land with cleared vegetation, riparian vegetation mainly shrubs or trees in <30m wide strip.

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



Distribution of *Atalophlebia* AV6 in Australia

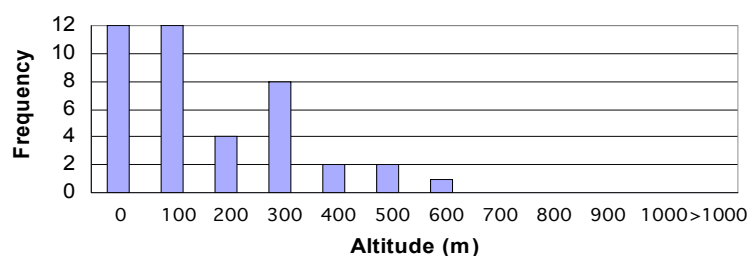


Atalophlebia AV6, nymph and typical habitat

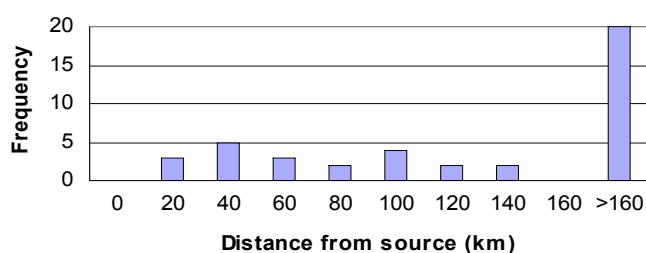


Charts for *Atalophlebia* AV6

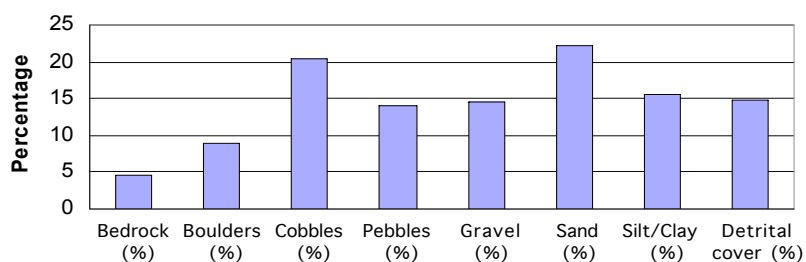
a) Altitude



b) Distance from source

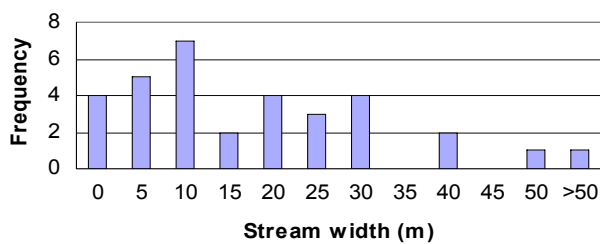


c) Substrate Particle Size

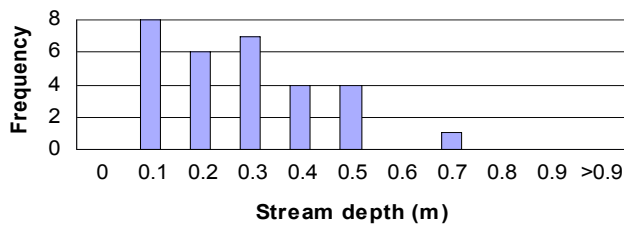




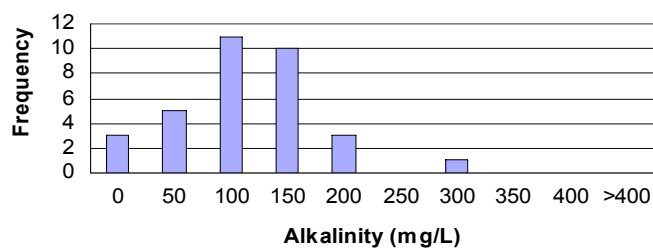
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

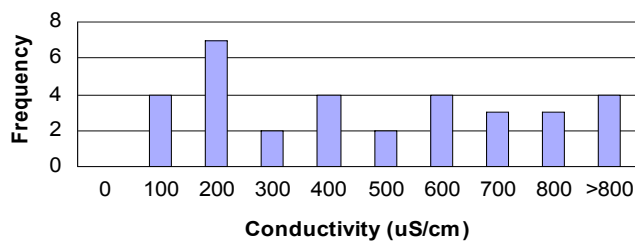




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Atalophlebia* sp. AV6 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	169	120	4-570	41
Distance from source (km)	212	137	16-936	41
Stream width (m)	18	15	1.3-60	33
Stream depth (m)	0.27	0.25	0.05-0.7	30
Water temperature	21.6	20.3	12.5-27.8	33
Conductivity ($\mu\text{S}/\text{cm}$)	466	393	54-1423	33
pH	7.9	8.0	7.2-9.0	33
Turbidity (NTU)	25	4	0-231	33
$\text{NO}_3\text{-N}$ (mg/L)	0.23	0.02	0.01-1.0	9
Total N (mg/L)	0.53	0.47	0-1.20	31
Total P (mg/L)	0.058	0.047	0.006-0.35	33
Alkalinity (mg/L)	109	120	13-300	33