



Family Leptophlebiidae

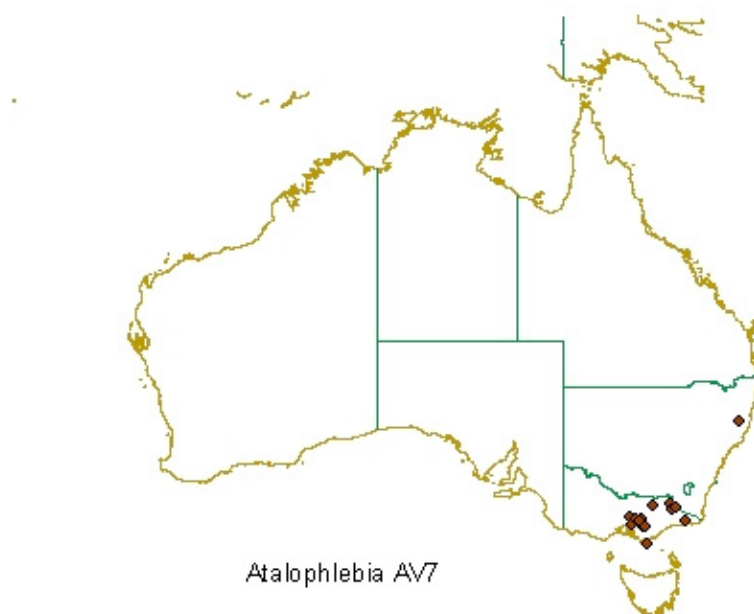
Habitat Profile for *Atalophlebia* AV7

Atalophlebia AV7 was recorded from 18 streams in eastern Victoria and in the Hastings and Macleay catchments in New South Wales

In this study, *Atalophlebia* sp. AV7 was recorded mainly in sweep habitat samples from streams mainly between 180-990 m altitude (Chart a), <31 km from the source (Chart b), with predominantly pebble and cobble substrate and with low detritus cover (Chart c). The streams were <11 m wide (Chart d) and <0.4 m deep (Chart e), with low alkalinity <24 mg/L (Chart f) and low to moderate conductivity <53 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: relatively low temperature, pH circum-neutral, mostly in range of 6-8 and extremely low turbidity (<6 NTU).

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



Distribution of *Atalophlebia* AV7 in Australia.

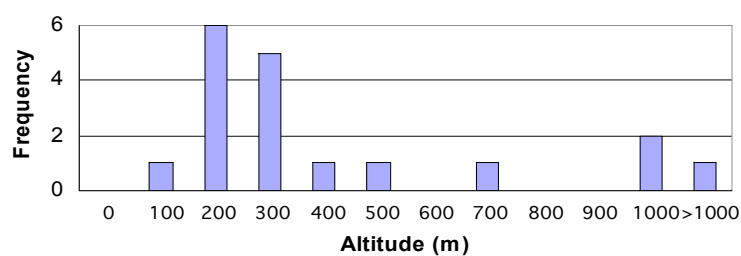


Typical habitat for *Atalophlebia* AV7

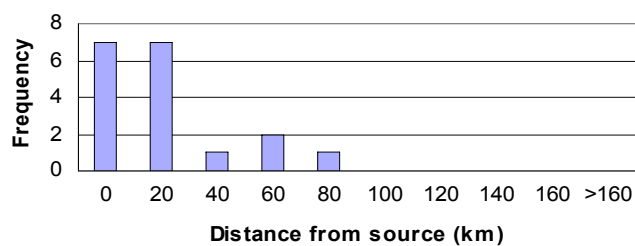


Charts for *Atalophlebia* AV7

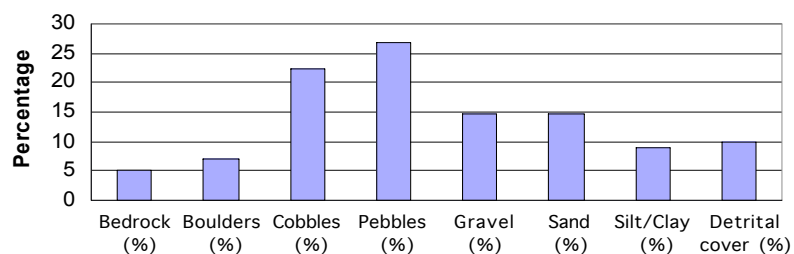
a) Altitude



b) Distance from source

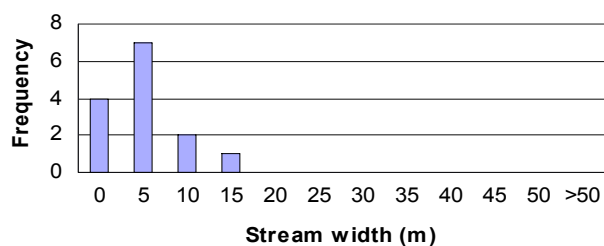


c) Substrate Particle Size

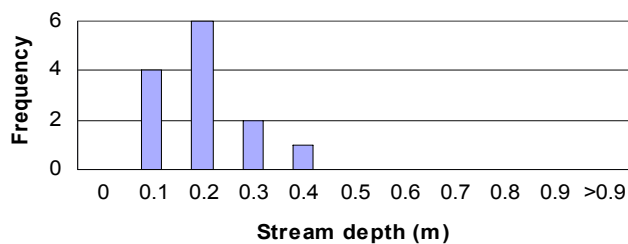




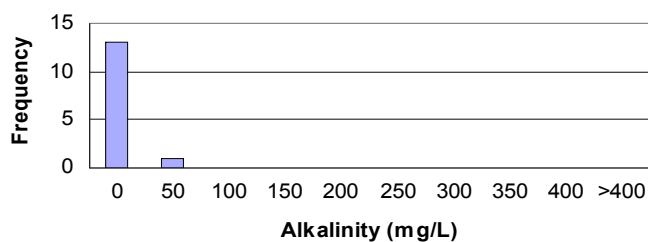
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

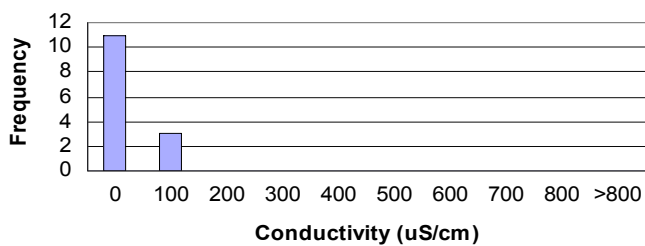




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Atalophlebia* sp. AV7 (N= number of records).

| | Mean | Median | Range | N |
|---------------------------|-------|--------|-------------|----|
| Altitude (m) | 424 | 270 | 100-1300 | 18 |
| Distance from source (km) | 23.5 | 19.3 | 2-88 | 18 |
| Stream width (m) | 5.3 | 4.0 | 1.5-15 | 14 |
| Stream depth (m) | 0.2 | 0.2 | 0.06-0.4 | 13 |
| Water temperature | 11.3 | 10.8 | 7.2-17.6 | 14 |
| Conductivity (µS/cm) | 46 | 38 | 0-128 | 14 |
| pH | 7.2 | 7.4 | 5.6-8.3 | 14 |
| Turbidity (NTU) | 1.9 | 1.7 | 0-5.9 | 14 |
| NO ₃ -N (mg/L) | 0.10 | 0.07 | 0.003-0.41 | 11 |
| Total N (mg/L) | | | | |
| Total P (mg/L) | 0.014 | 0.012 | 0.005-0.032 | 11 |
| Alkalinity (mg/L) | 16.5 | 10.0 | 5-74 | 14 |