



## Family Leptophlebiidae

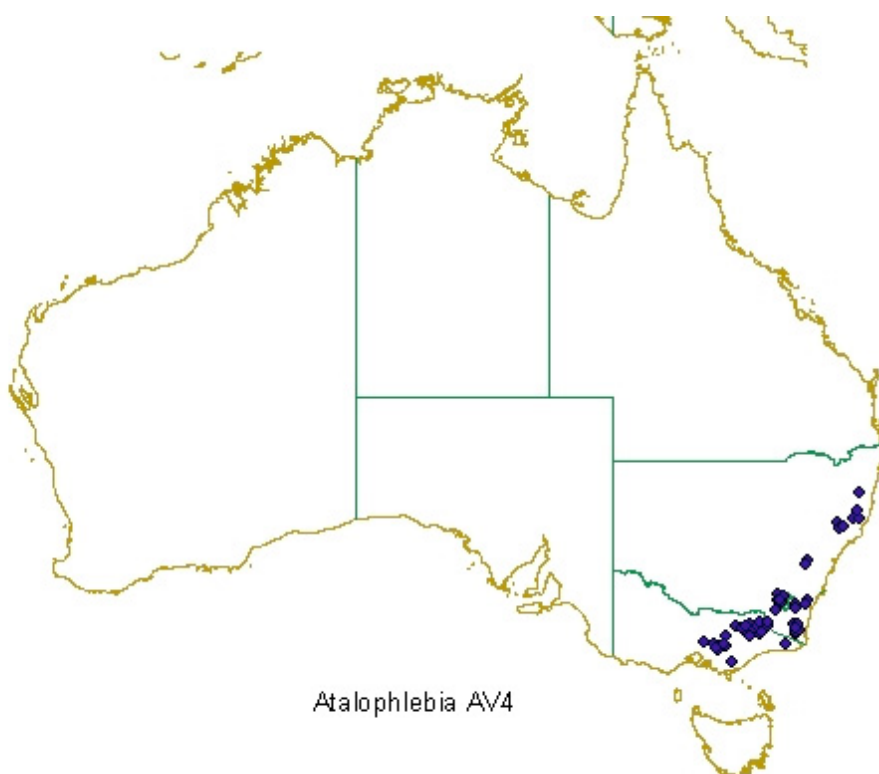
### Habitat Profile for *Atalophlebia* AV4

*Atalophlebia* sp. AV4 was recorded from 77 Victorian, New South Wales and ACT localities in this study. Previously, Dean (1999) also recorded nymphs from SE Queensland.

In this study, *Atalophlebia* sp. AV4 was generally recorded in edge, kick and sweep habitat samples from streams between 210-1000 m altitude (Chart a), between 2.5-59 km from the source (Chart b), with even spread of cobbles, pebble, gravel and boulder substrates and with low to moderate detritus cover (Chart c). The streams were relatively small to medium in width <12 m (Chart d), had low to moderate mean water depth (Chart e), low to moderate alkalinity, range 10-85 mg/L (Chart f) and low to medium conductivity <121  $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: relatively low recorded water temperature range between 9-17 °C, pH mostly near neutral, in range of 6.8-8.1 and very low turbidity (<14 NTU).

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



*Atalophlebia* AV4

Distribution of *Atalophlebia* AV4 in Australia

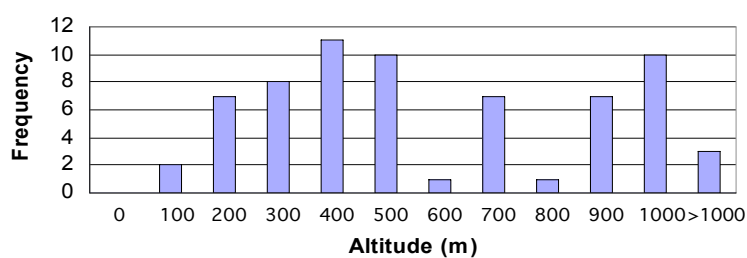


## Typical habitat for *Atalophlebia* AV4

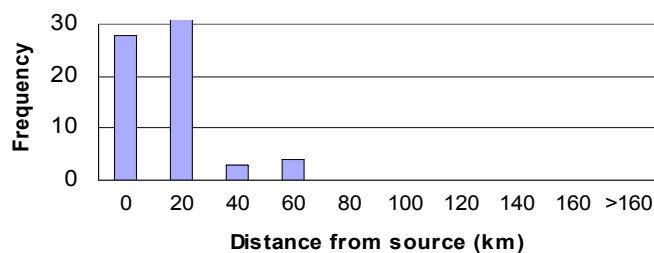


## Charts for *Atalophlebia* AV4

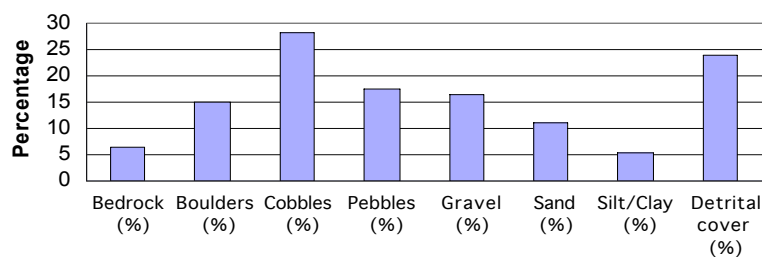
### a) Altitude



### b) Distance from source

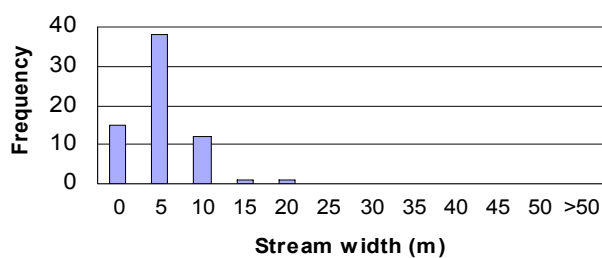


### c) Substrate Particle Size

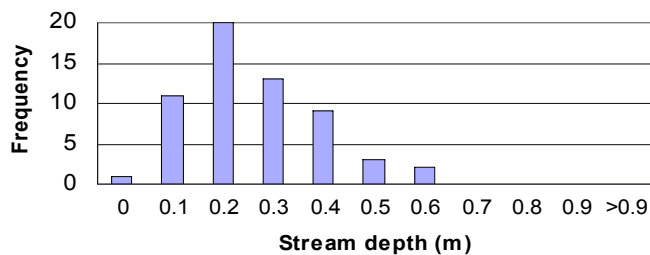




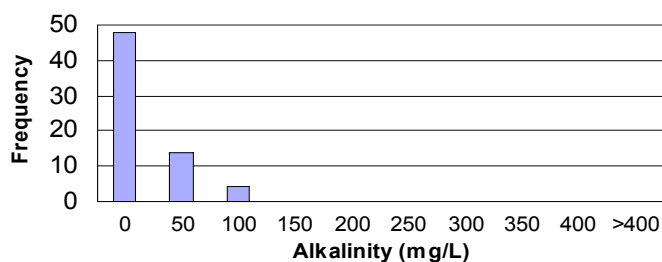
d) Stream Width



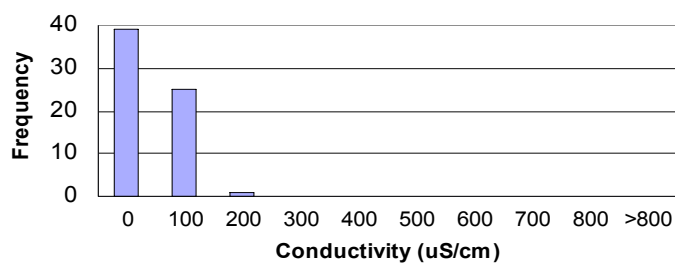
e) Depth



f) Alkalinity



g) Conductivity





**Table.** Mean, median and range for selected physical and chemical parameters and habitat categories for *Atalophlebia* sp. AV4 (N= number of records).

|                           | Mean  | Median | Range       | N  |
|---------------------------|-------|--------|-------------|----|
| Altitude (m)              | 594   | 500    | 130-1220    | 67 |
| Distance from source (km) | 15.4  | 11.1   | 2.5-65      | 67 |
| Stream width (m)          | 5.2   | 4.0    | 1-20        | 67 |
| Stream depth (m)          | 0.25  | 0.23   | 0.1-0.6     | 59 |
| Water temperature         | 12.6  | 12.7   | 5.8-17.9    | 66 |
| Conductivity (µS/cm)      | 48    | 42     | 0-200       | 65 |
| pH                        | 7.5   | 7.5    | 6.5-8.3     | 67 |
| Turbidity (NTU)           | 3.4   | 2.0    | 0-13.8      | 64 |
| NO <sub>3</sub> -N (mg/L) | 0.04  | 0.01   | 0-0.61      | 61 |
| Total N (mg/L)            | 0.09  | 0.0    | 0.0-0.36    | 25 |
| Total P (mg/L)            | 0.016 | 0.013  | 0.003-0.085 | 63 |
| Alkalinity (mg/L)         | 25.3  | 20     | 6-100       | 66 |

## References

Dean JC (1999) 'Preliminary keys for identification of Australian mayfly nymphs of the family Leptophlebiidae.' (Co-operative Research Centre for Freshwater Ecology: Albury)