



Family Leptophlebiidae

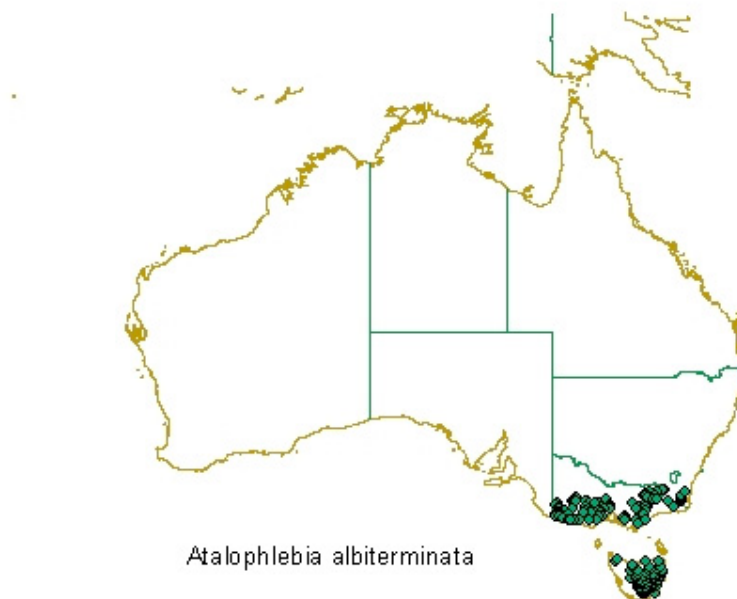
Habitat Profile for *Atalophlebia albiterminata* Tillyard

Atalophlebia albiterminata was recorded from 248 Tasmanian, Victorian and New South Wales localities in this study. Dean (1999) previously recorded this species from the same three states. An earlier study by Tillyard (1936), gives a little information on habitat as “all over Tasmania and the eastern highlands of mainland Australia, in stagnant or still waters or in backwaters of rivers”.

In this study, *A. albiterminata* was generally recorded in sweep, kick and edge habitat samples from streams <750 m altitude (Chart a), with most records <110 km from the source (Chart b), with predominantly medium substrates of pebbles, gravel and cobble and with low to moderate detritus cover (Chart c). Stream width was <33 m (Chart d), mean water depth was <0.5 m (Chart e), alkalinity was <370 mg/L (Chart f) and conductivity ranged widely from 10-3800 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 7-23.5 °C, pH mostly in range of 6-8.6 and low turbidity of <23 NTU.

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



Distribution of *Atalophlebia albiterminata* in Australia.

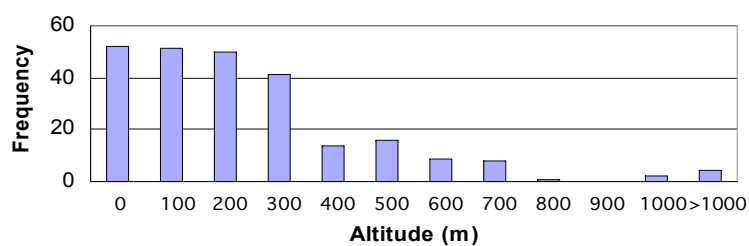


Atalophlebia albiterminata, nymph and typical habitat

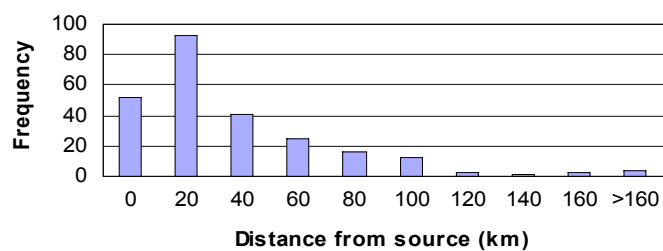


Charts for *Atalophlebia albiterminata*

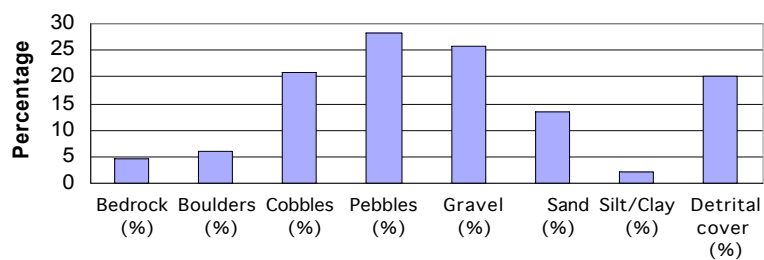
a) Altitude



b) Distance from source

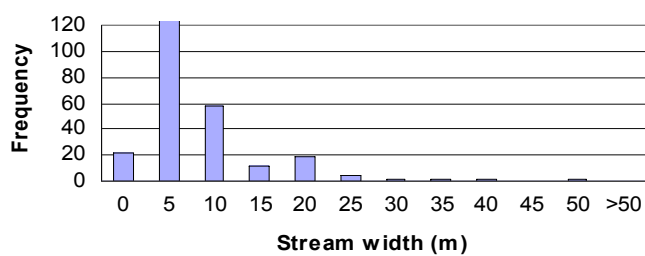


c) Substrate Particle Size

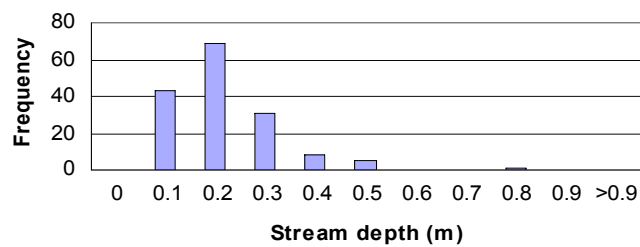




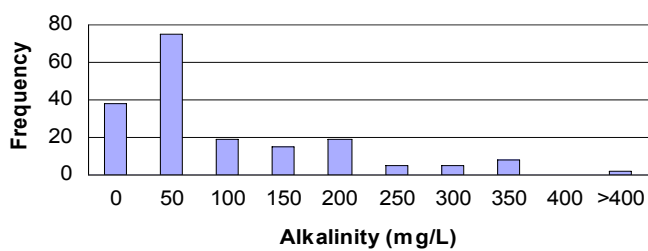
d) Stream Width



e) Depth



f) Alkalinity



g) Conductivity

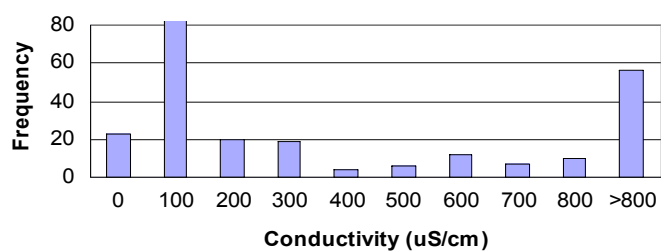




Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *A. albiterminata* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	251	180	5-1740	248
Distance from source (km)	37.5	22.3	2-533	248
Stream width (m)	8.2	6.4	1-50	242
Stream depth (m)	0.21	0.20	0.05-0.8	157
Water temperature	14.5	14.2	6.5-23.5	186
Conductivity (µS/cm)	623	230	10-5200	240
pH	7.4	7.5	4.9-8.6	181
Turbidity (NTU)	4.6	2.7	0-27.5	185
NO ₃ -N (mg/L)	0.10	0.013	0.002-2.7	175
Total N (mg/L)	0.40	0.31	0-1.21	60
Total P (mg/L)	0.03	0.016	0.002-0.4	170
Alkalinity (mg/L)	98	57	1-420	186

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)

Tillyard RJ (1936) The Trout-Food Insects of Tasmania Part II.-A Monograph of the Mayflies of Tasmania. *Paper and Proceedings of the Royal Society of Tasmania* **1935**, 23-60.