



FAMILY PHILOPOTAMIDAE

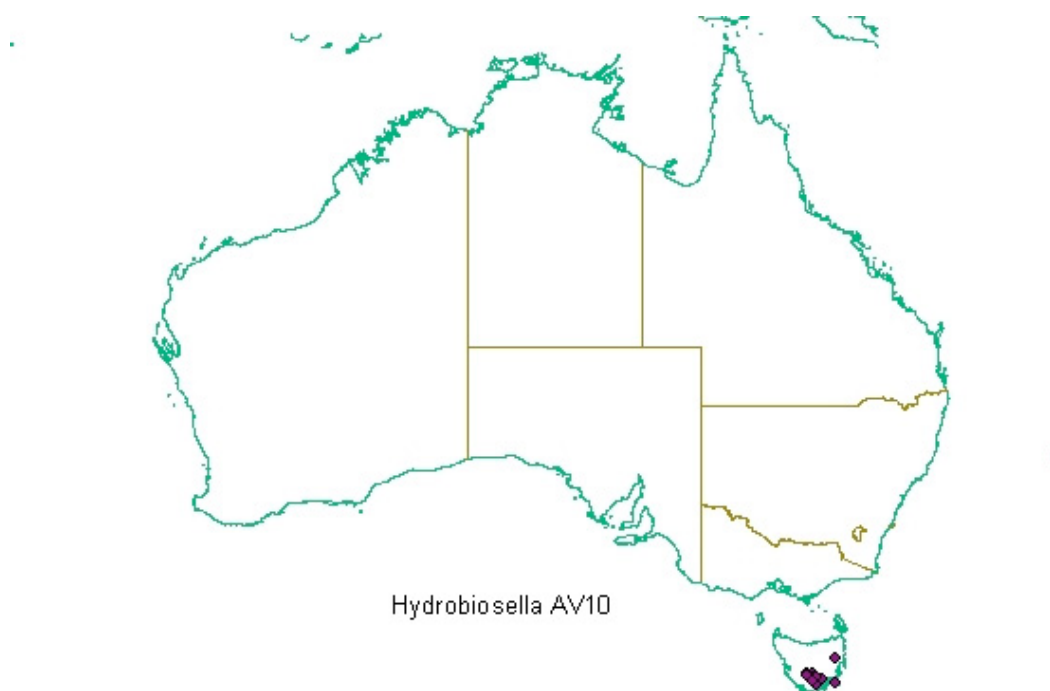
Habitat profile for *Hydrobiosella* sp. AV10

Hydrobiosella sp. AV10 was recorded from 14 southern and eastern Tasmanian localities in this study.

Generally *Hydrobiosella* sp. AV10 was recorded in riffle habitat samples from streams at relatively low to moderate altitudes between 110-640 m (Chart a), a short distance from the source at between 1-10 km (Chart b). The streams were small to medium between 1.2-11 m wide (Chart c) and <0.3m deep (Chart d) with low alkalinity between 3-32 mg/L (Chart e) and low conductivity between 35-172 $\mu\text{S}/\text{cm}$ (Chart f).

The following generalities can be made about the other parameters listed in the Table: cold to cool recorded water temperatures between 6.1-11.3°C, acidic to near neutral pH in the range of 5.3-7.2, and very low turbidity (<19 NTU).

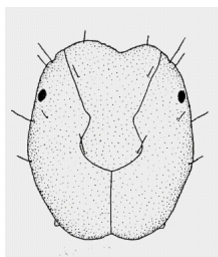
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Hydrobiosella* sp AV10 in Australia.

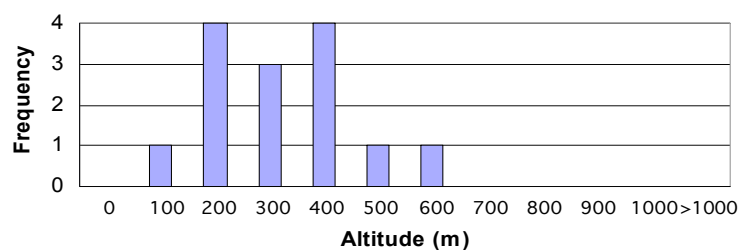


Hydrobiosella sp AV10, head of larva and typical habitat

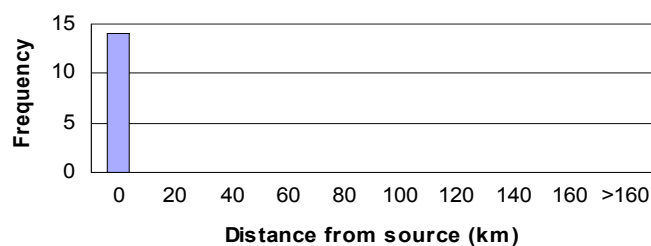


Charts for *Hydrobiosella* sp AV10

a) Altitude

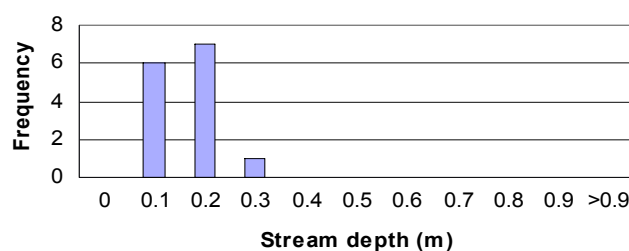


b) Distance from source

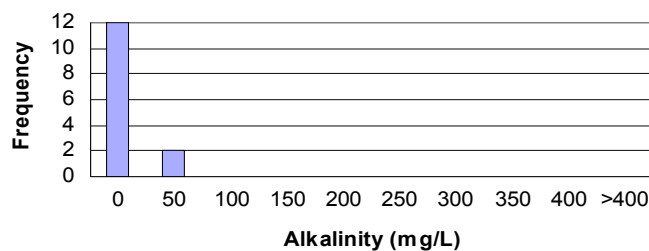




d) Depth



e) Alkalinity



f) Conductivity

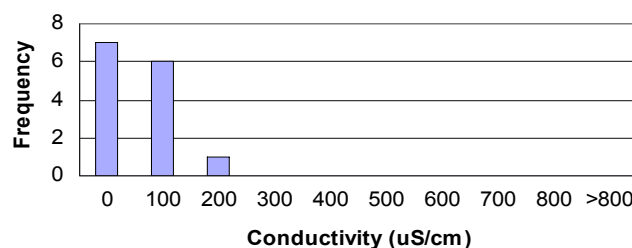


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV10 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	324	320	110-640	14
Distance from source (km)	5.1	5.4	1-10	14
Stream width (m)	6.0	6.3	1.2-11	14
Stream depth (m)	0.14	0.15	0.08-0.3	14
Water temperature (°C)	8.3	8.4	6.1-11.3	14
Conductivity (µS/cm)	68	50.5	35-172	14
pH	6.4	6.5	5.3-7.2	14
Alkalinity (mg/L)	14.1	12.5	3-32	14
Turbidity (NTU)	3.2	1.8	0.3-19	14
Total N (mg/L)	0.18	0.14	0.07-0.53	14
NO ₃ -N (mg/L)	0.019	0.005	0.002-0.11	14
Total P (mg/L)	0.006	0.004	0.002-0.021	14
P SR (mg/L)	0.002	0.002	0.002	14