



FAMILY PHILOPOTAMIDAE

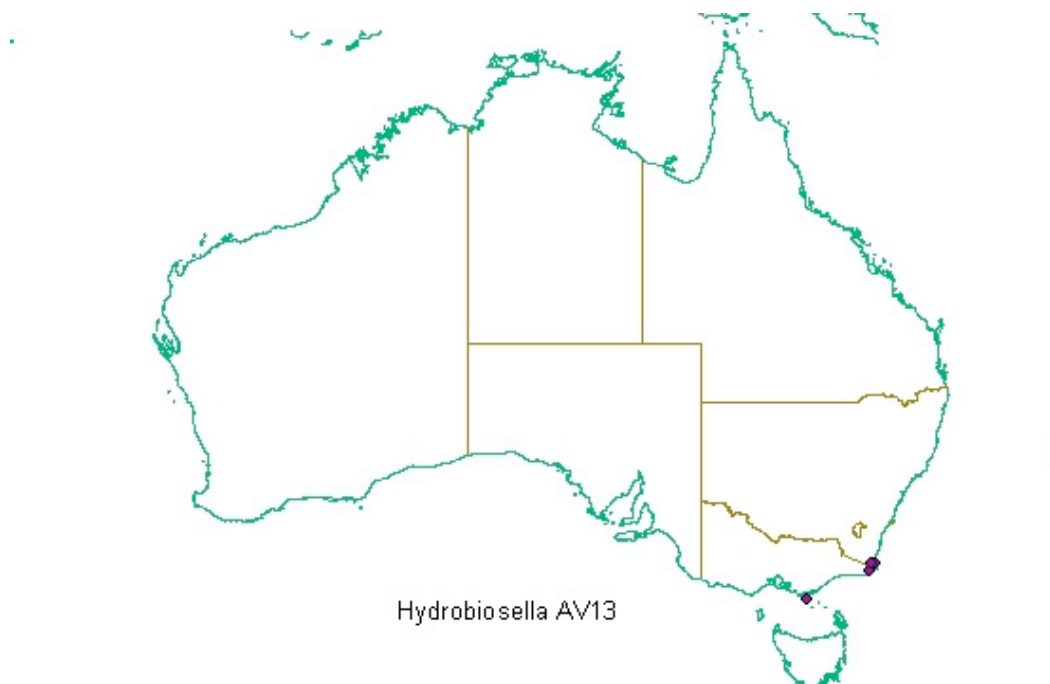
Habitat profile for *Hydrobiosella* sp. AV13

Hydrobiosella sp. AV13 was recorded from only 5 samples from the Gippsland area in Victorian and near the southern border of New South Wales in this study.

Generally *Hydrobiosella* sp. AV13 was recorded in kick and riffle habitat samples from streams at low altitudes between 30-180 m (Chart a), a relatively short distance from the source at between 3.5-28.5 km (Chart b), with predominantly larger sized substrates of bedrock, boulders and cobbles with moderate (<10%) detritus cover (Chart c). The streams were small between 3-5 m wide (Chart d) and <0.2m deep (Chart e) with low alkalinity between 7-10 mg/L (Chart f) and low conductivity between 163-272 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: moderate recorded water temperatures between 11.5-14.1°C, circum-neutral pH in the range of 6.2-7.7, and very low turbidity (<5 NTU).

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

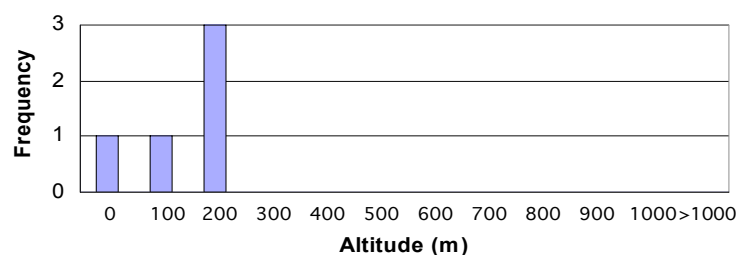


Distribution of *Hydrobiosella* sp AV13 in Australia.

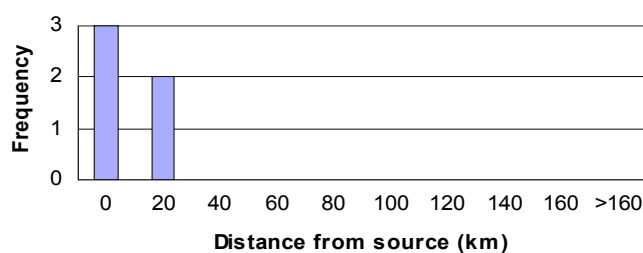


Charts for *Hydrobiosella* sp AV13

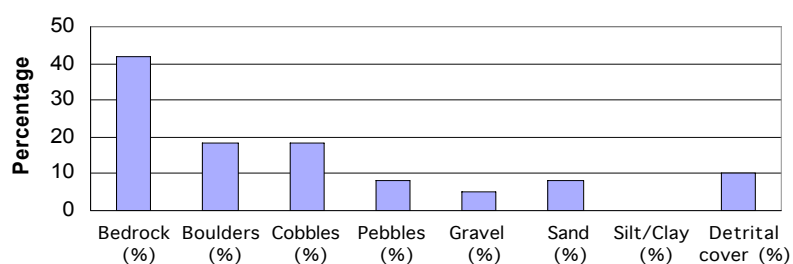
a) Altitude



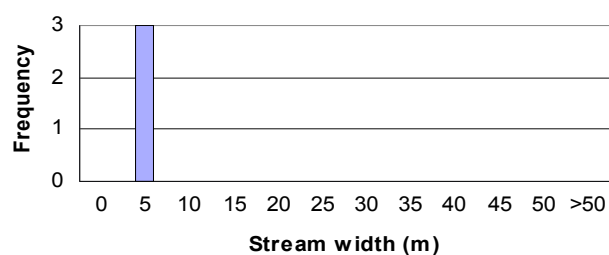
b) Distance from source



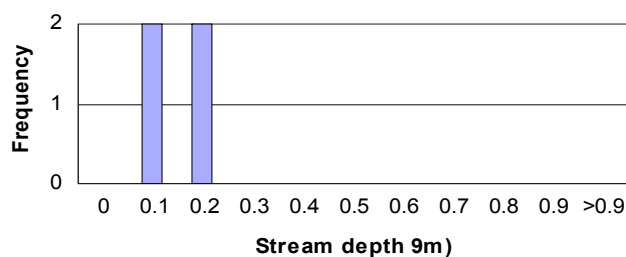
c) Substrate Particle Size



d) Stream Width

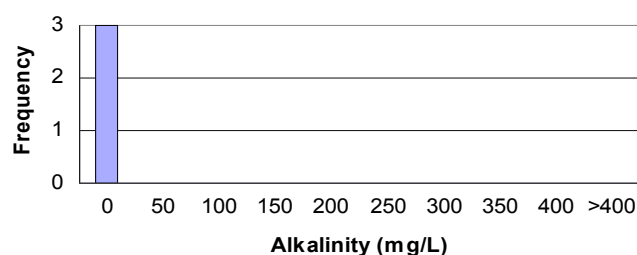


e) Depth





f) Alkalinity



g) Conductivity

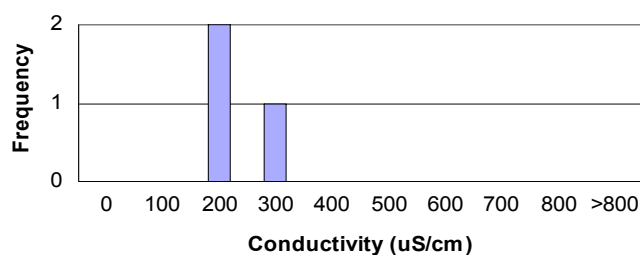


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Hydrobiosella* sp. AV13 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	126	170	30-180	5
Distance from source (km)	10.8	7.6	3.5-28.5	5
Stream width (m)	3.7	3	3-5	3
Stream depth (m)	0.13	0.14	0.05-0.2	4
Water temperature (°C)	12.9	13.2	11.5-14.1	3
Conductivity (µS/cm)	222	230	163-272	3
pH	6.8	6.6	6.2-7.7	3
Alkalinity (mg/L)	8	7	7-10	3
Turbidity (NTU)	3.1	4.2	0.6-4.5	3
Total N (mg/L)				
NO ₃ -N (mg/L)	0.11	0.15	0.008-0.17	3
Total P (mg/L)	0.018	0.018	0.013-0.024	3