



Family Austroperlidae

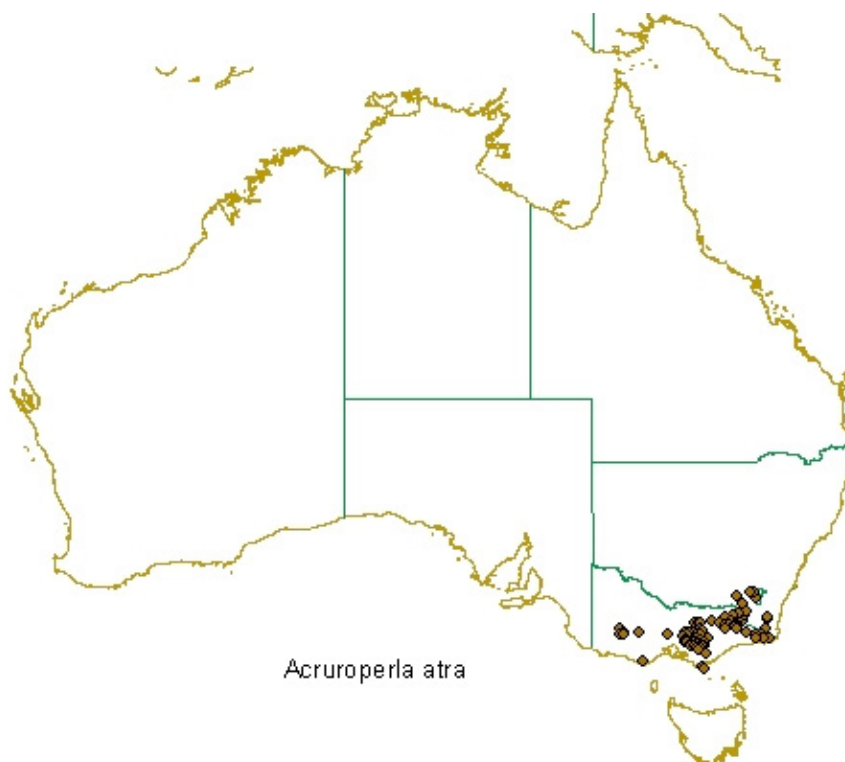
Habitat Profile for *Acruroperla atra* (Samal)

Acruroperla atra (Samal) was recorded from 278 samples mainly in Victoria but also in southern New South Wales and the ACT.

C. atra was recorded from streams at a wide range of altitudes (20-2020m) above sea level (Chart a) which showed a bimodal distribution around 300-5090m and >1000m. The lower altitude results were predominantly from Victoria while the high altitudes were in alpine Victoria, NSW and the ACT. The streams were generally close to the stream source particularly in NSW and the ACT (usually <20km) (Chart b) and the substrate was dominated by cobbles, pebbles, gravel and sand with <20% detrital cover (Chart c). Streams were generally <20m wide (Chart d), depth was <0.4m (Chart e) with low alkalinity (Chart f) and low conductivity <320 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: wide range of temperature (2.2-22 °C), pH was circum-neutral, range 4-8.3 and very low turbidity (0.3-13.2 NTU).

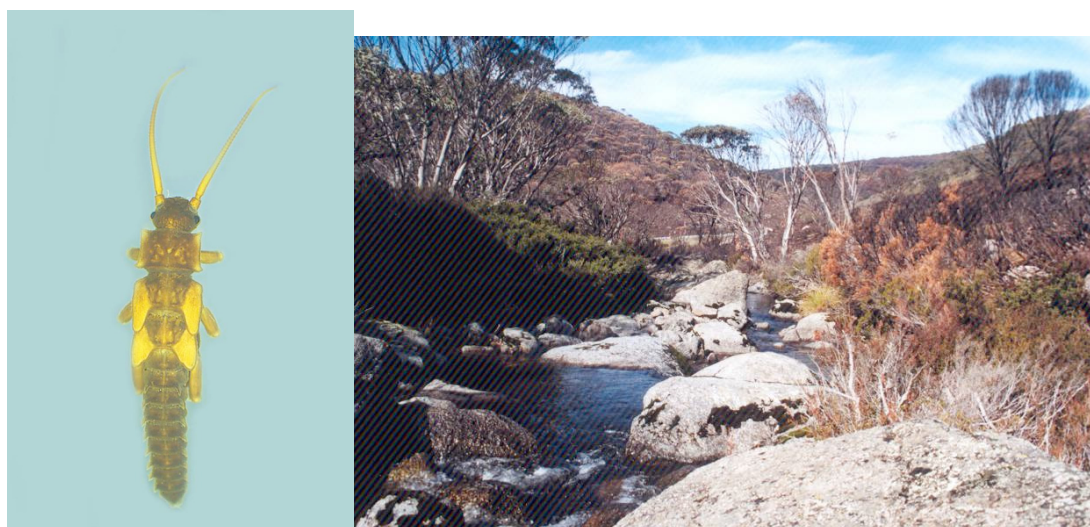
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Acruroperla atra* in Australia.

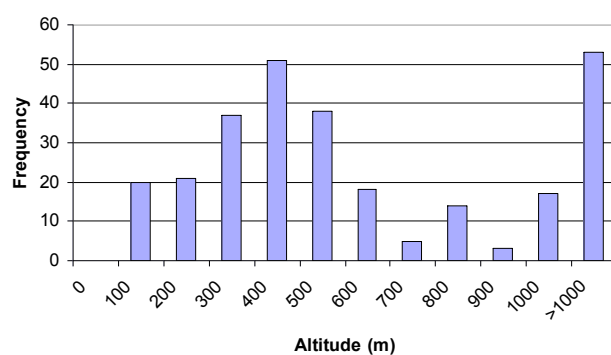


Acruroperla atra, nymph and typical habitat

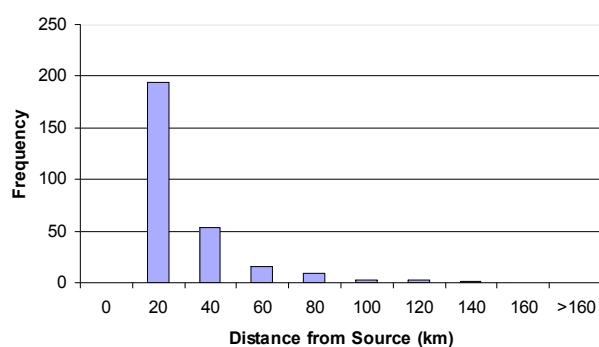


Charts for *Acruroperla atra*

a) Altitude

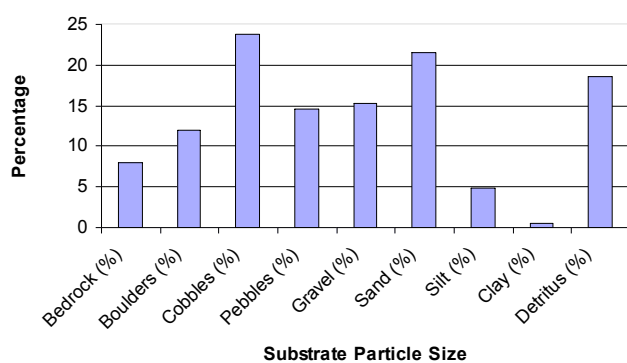


b) Distance from source

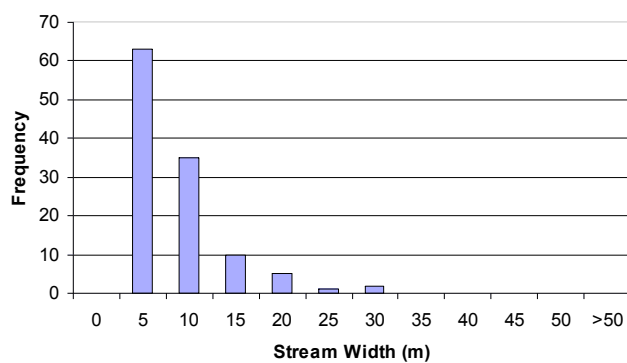




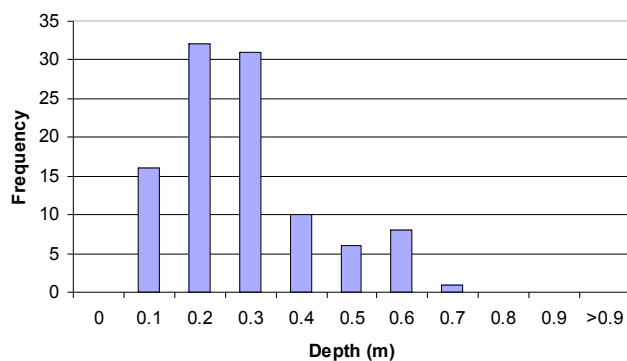
c) Substrate Particle Size



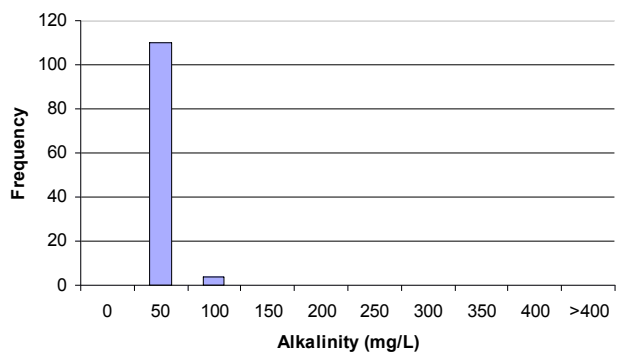
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

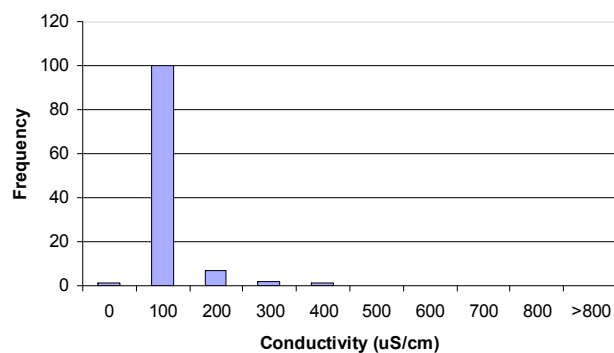


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Acruroperla atra* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	572.4	430	20-1740	277
Distance from source (km)	18.1	11.0	0.1-134	277
Width (m)	6.43	5.0	0.3-30.0	114
Depth (m)	0.25	0.22	0.05-0.62	104
Water Temperature (°C)	11.9	12	2.2-22	114
Conductivity (µS/cm)	45.7	29	0-314	111
pH	7.1	7.2	4.0-8.3	114
Turbidity (NTU)	3.1	2.3	0.3-13.2	104
NO3-N (mg/L)	0.051	0.010	0.003-0.690	104
Total N (mg/L)				
Total P (mg/L)	0.022	0.013	0.005-0.140	96
Alkalinity (mg/L)	16.9	13.5	2-85	104