



Family Austroperlidae

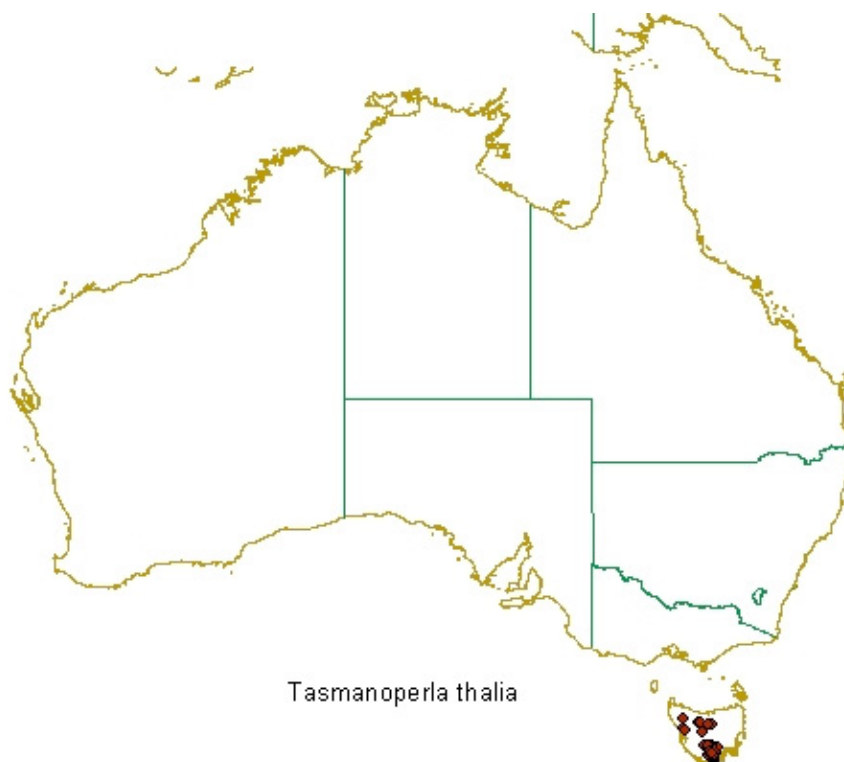
Habitat Profile for *Tasmanoperla thalia* (Newman)

Tasmanoperla thalia (Newman) is also an endemic species from Tasmania (Hynes 1989). It was recorded from 45 samples mainly from riffles on the western half of the state.

T. thalia was recorded from foothill streams at altitudes (40-740m) above sea level (Chart a), and <50m from the stream source (Chart b) and the substrate was dominated by boulders, cobbles and pebbles with <15% detrital cover (Chart c). Streams were generally <50m wide (Chart d), depth was <0.5m (Chart e) with low alkalinity (Chart f) and low conductivity <240 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: low water temperature (4.8-14.5 °C), pH was acidic range 4-7.5 and very low turbidity (0.5-18.7 NTU).

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



Distribution of *Tasmanoperla thalia* in Australia.

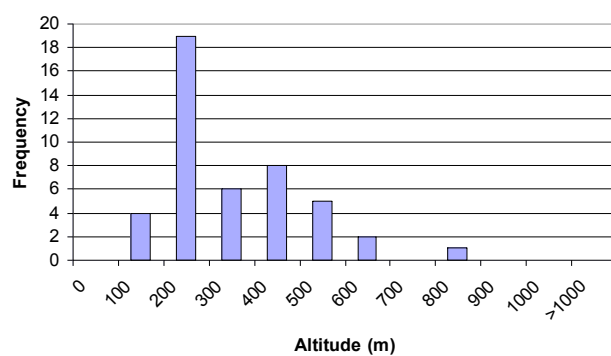


Tasmanoperla thalia, nymph and typical habitat

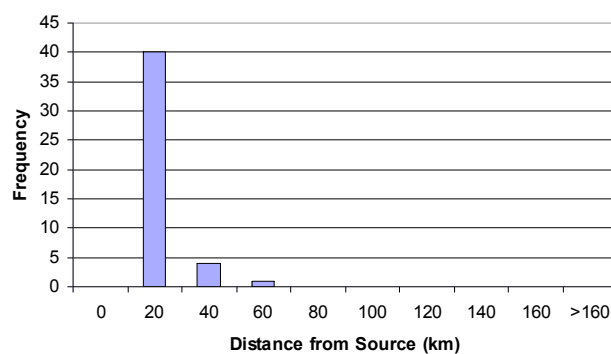


Charts for *Tasmanoperla thalia*

a) Altitude

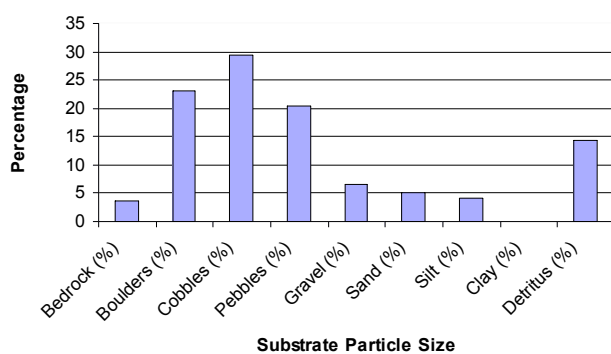


b) Distance from source

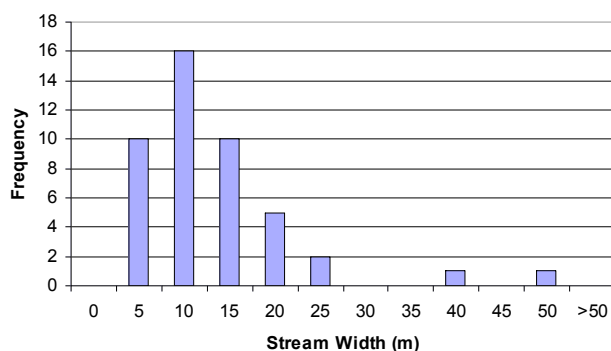




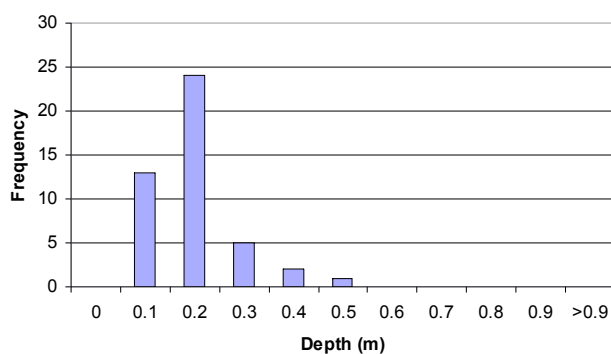
c) Substrate Particle Size



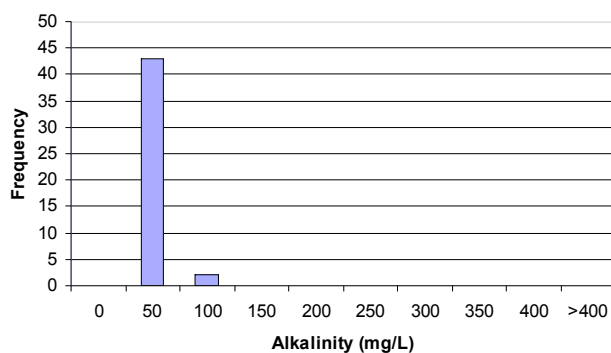
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

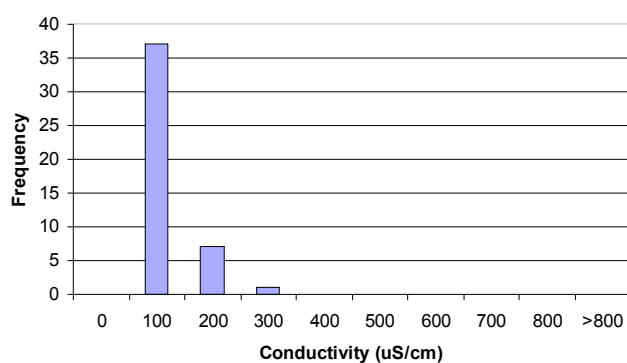


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Tasmanoperla thalia* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	255	200	40-740	45
Distance from source (km)	10.6	8.0	1.0-50	45
Width (m)	10.8	8.3	1.2-48.3	45
Depth (m)	0.17	0.15	0.05-0.50	45
Water Temperature (°C)	8.7	8.6	4.8-14.5	45
Conductivity (µS/cm)	72.9	56.9	16.9-237	45
pH	6.1	6.4	3.8-7.5	45
Turbidity (NTU)	2.5	1.8	0.51-18.7	45
NO3-N (mg/L)	0.015	0.005	0.002-0.102	45
Total N (mg/L)	0.158	0.138	0.056-0.534	45
Total P (mg/L)				
Alkalinity (mg/L)	15.3	10.0	1-76	45

References

Hynes HBN (1989) 'Tasmanian Plecoptera.' (Australian Society for Limnology)