



Family Austroperlidae

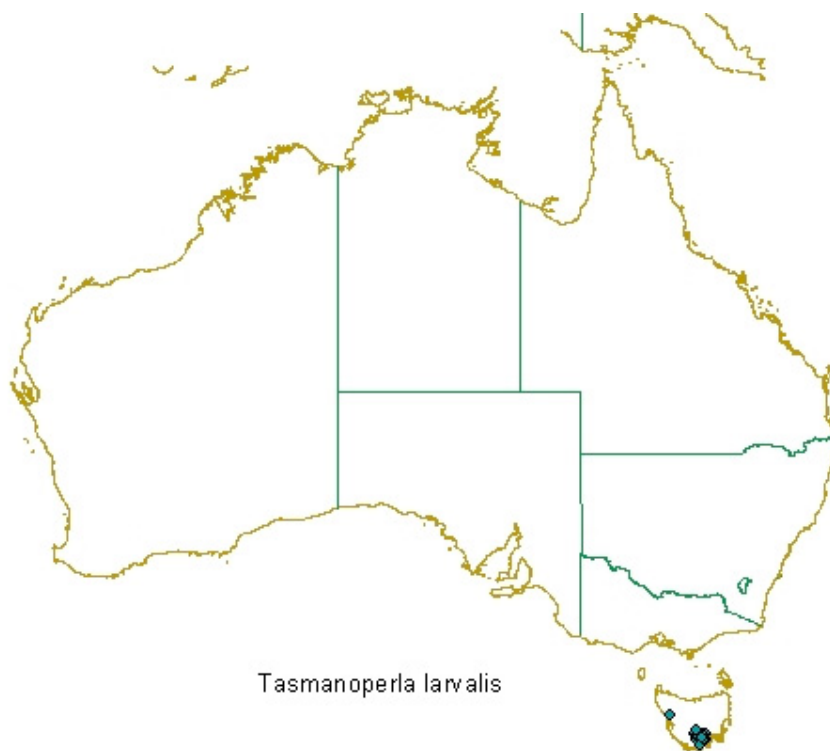
Habitat Profile for *Tasmanoperla larvalis* (Illies)

Tasmanoperla larvalis (Illies) was recorded from 24 riffle samples in Tasmania. This species is endemic to Tasmania (Hynes 1989; Michaelis and Yule 1988). Hynes (1989) noted that this species occurs in “silty gravel along the edges of cool rivers and streams and along the stony shores of lakes at high altitudes.” Hynes (1989) also noted that there was only a single record from the eastern mountains, but this study did not find any specimens in this area.

T. larvalis was recorded from streams at low altitudes (<370m) above sea level (Chart a), that were <50km from the stream source (Chart b) and the substrate was dominated by boulders, cobbles and pebbles <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 to moderate conductivity <650 μ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: low water temperature (6.5-13.2 °C), pH was acidic range 5-7.2 and very low turbidity (0.7-12.4 NTU).

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



Distribution of *Tasmanoperla larvalis* in Australia.

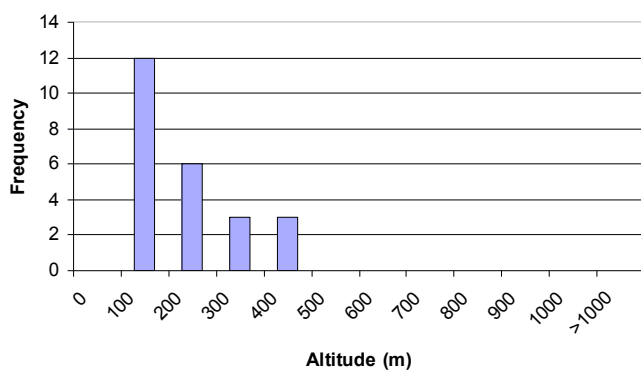


Tasmanoperla larvalis, nymph and typical habitat

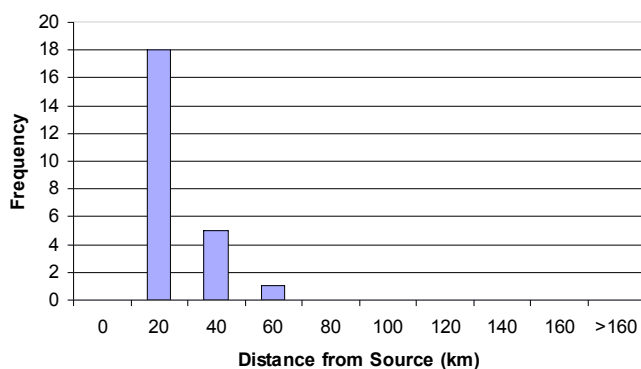


Charts for *Tasmanoperla larvalis*

a) Altitude

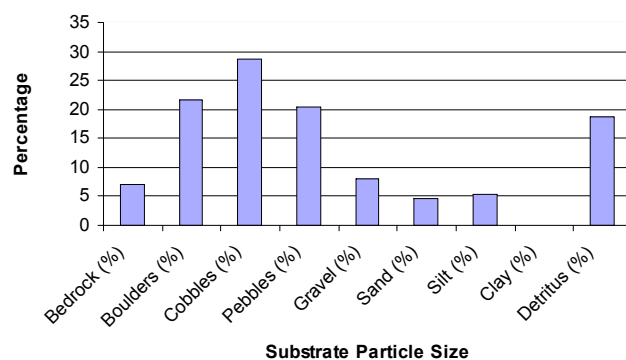


b) Distance from source

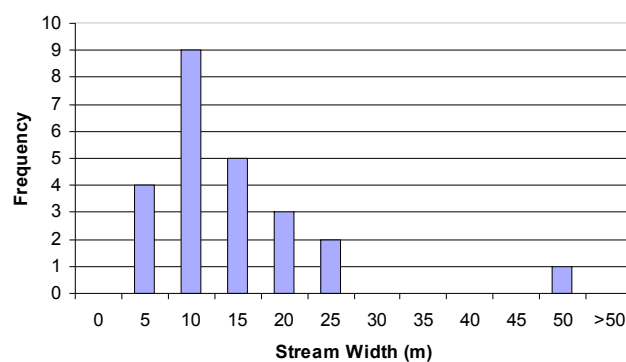




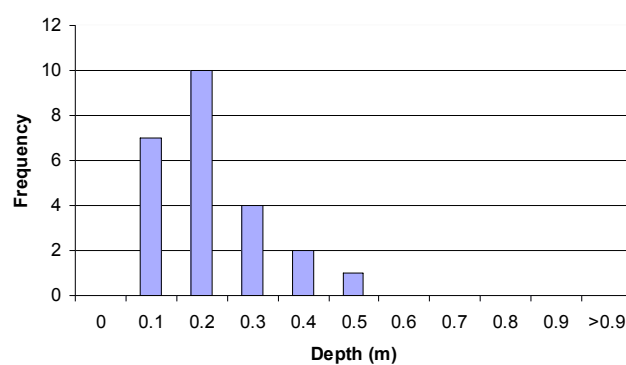
c) Substrate Particle Size



d) Stream Width

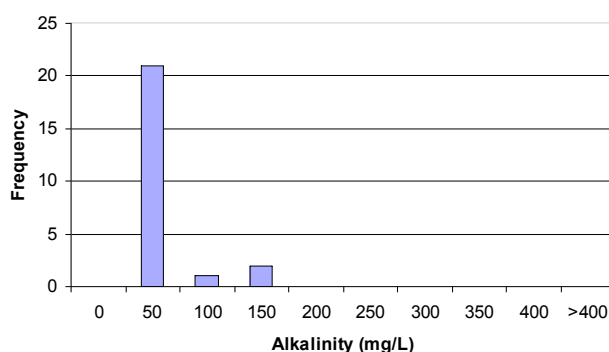


e) Depth





f) Alkalinity



g) Conductivity

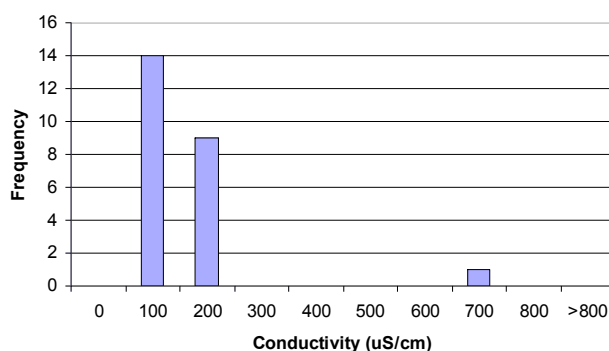


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Tasmanoperla larvalis* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	138	98	35-370	24
Distance from source (km)	14.6	11.5	4.4-50	24
Width (m)	12.4	9.5	3.5-48.3	24
Depth (m)	0.18	0.15	0.08-0.45	24
Water Temperature (°C)	9.5	9.2	6.5-13.2	24
Conductivity (uS/cm)	113.7	76.4	34.9-633	24
pH	6.5	6.5	5.1-7.2	24
Turbidity (NTU)	3.7	1.6	0.7-12.4	24
NO3-N (mg/L)	0.034	0.003	0.002-0.191	24
Total N (mg/L)				
Total P (mg/L)	0.008	0.004	0.002-0.037	24
Alkalinity (mg/L)	30.7	17.5	2-125	24

References

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

Michaelis FB, Yule C (1988) Plecoptera. In 'Zoological Catalogue of Australia 6. Ephemeroptera, Megaloptera, Odonata, Plecoptera, Trichoptera'. (Eds DW Walton and WWK Houston) pp. 133-176. (Brown Prior Anderson Pty. Ltd.: Burwood, Victoria)