



Family Gripopterygidae

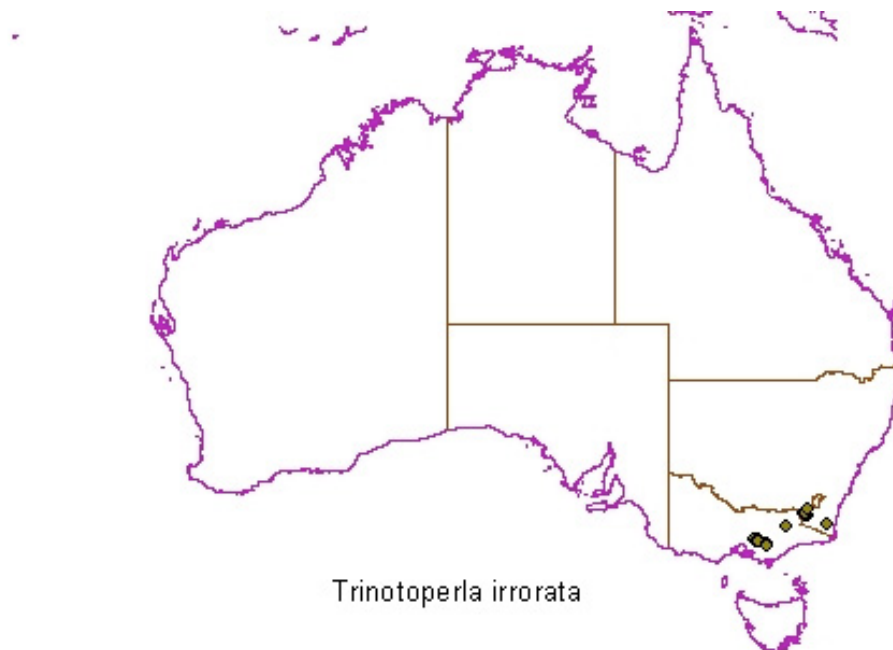
Habitat Profile of *Trinotoperla irrorata* Tillyard

Trinotoperla irrorata Tillyard was recorded from 39 samples, mainly from the riffle habitat, from Victoria and New South Wales. Michaelis and Yule (1988) recorded this species in the south-east coast and Murray Darling Basin in Victoria and New South Wales.

T. irrorata was recorded from high altitude streams, 190-1840m above sea level (Chart a) and generally close to the stream source (usually <20km) (Chart b) and the substrate was dominated by bedrock, boulders and cobbles with <5% detrital cover (Chart c). Streams were generally <10m wide (Chart d), depth was <0.5m (Chart e) with very low alkalinity (Chart f) and low conductivity (<60 μ S/cm) (Chart g).

The following generalities can be made about the other parameters listed in the Table: wide range of temperature (3.9-14.2 °C), pH was circum-neutral, range 5.7-9.2 and very low turbidity (0.4-7.2 NTU).

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



Trinotoperla irrorata

Distribution of *Trinotoperla irrorata* in Australia.

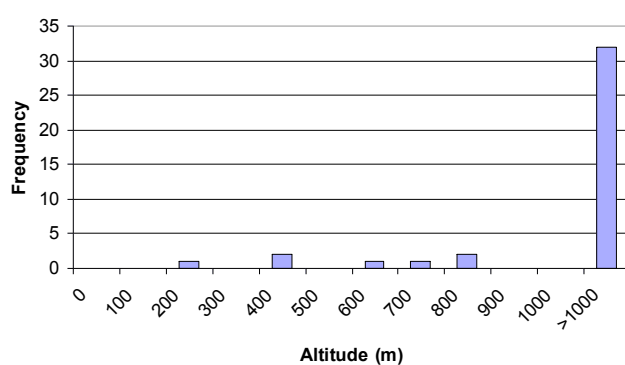


Tasmanoperla thalia, nymph and typical habitat

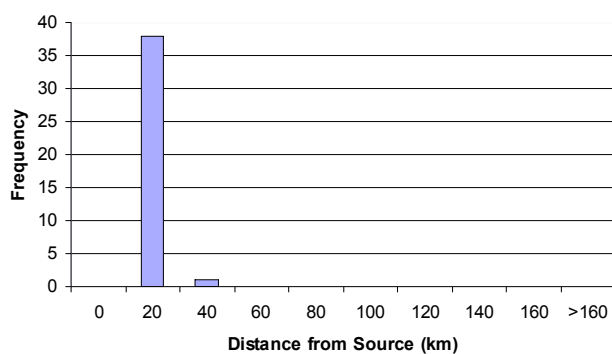


Charts for *Tasmanoperla thalia*

a) Altitude

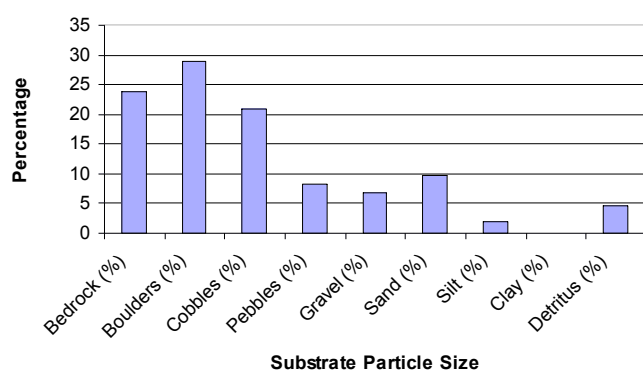


b) Distance from source

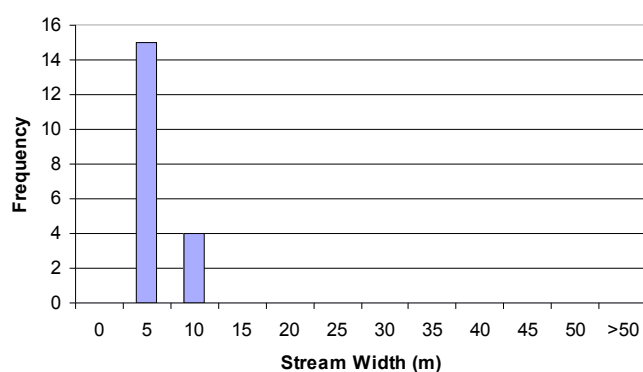




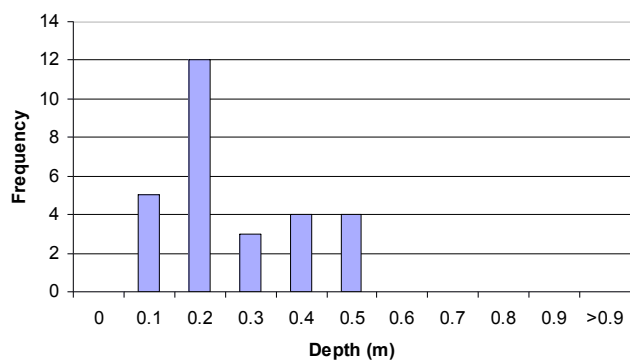
e) Substrate Particle Size



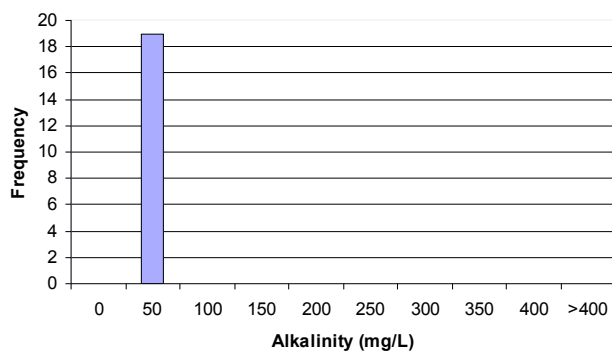
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

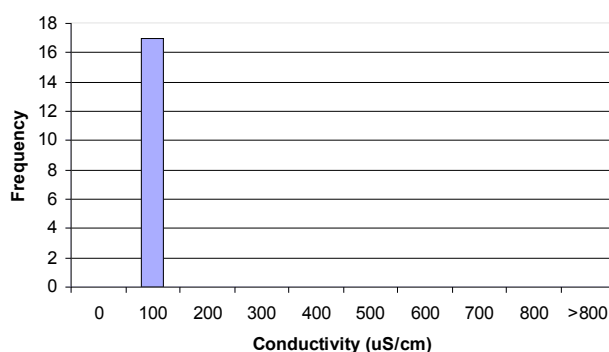


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Trinotoperla irrorata* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	1286	1300	190-1840	39
Distance from source (km)	4.7	2.1	0.1-23	39
Width (m)	3.0	2.0	0.3-10	19
Depth (m)	0.24	0.20	0.04-0.50	29
Water Temperature (°C)	8.1	7.7	3.9-14.2	19
Conductivity (µS/cm)	19.2	14.5	6-58	16
pH	7.3	7.3	5.7-9.2	19
Turbidity (NTU)	1.7	1	0-7.2	19
NO ₃ -N (mg/L)	0.047	0.025	0.010-0.230	16
Total N (mg/L)				
Total P (mg/L)	0.011	0.010	0.006-0.019	16
Alkalinity (mg/L)	8.3	10.0	4-13	19

References

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)