



Family Baetidae

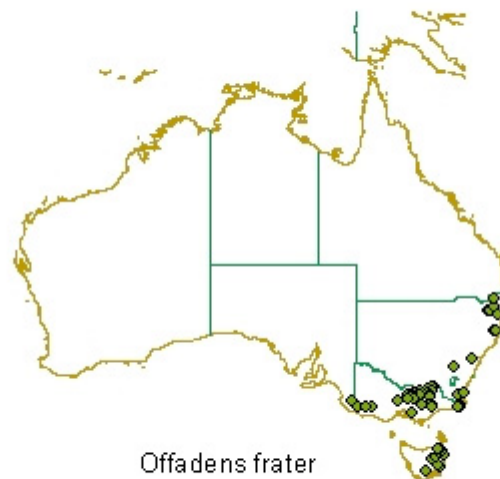
Habitat Profile for *Offadens frater* (Tillyard)

Offadens frater (Tillyard) was widespread on the east coast drainage but was only recorded from 72 samples in Tasmania, Victoria, South Australia and New South Wales. This extends the distribution into NSW from the previously published distribution (Suter 2000).

Offadens frater was generally recorded in all habitat samples (combined, riffle, kick, sweep and edge) from lowland streams below 400 m altitude (Chart a), < 120 km from the source (Chart b), with predominantly cobbles, pebble, gravel and sand substrate with <5% detritus cover (Chart c). The streams were between 1-40 m wide (Chart d) and less than 0.6m deep (Chart e), with low to moderate alkalinity between 6-300 mg/L (Chart f) and low to high conductivity generally below 300µS/cm but as high as 1100µS/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 12.5-24.7 °C, pH circum-neutral, mostly in range of 6.3-8.6 and low turbidity 0.6-43 NTU.

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



Distribution of *Offadens frater* in Australia.

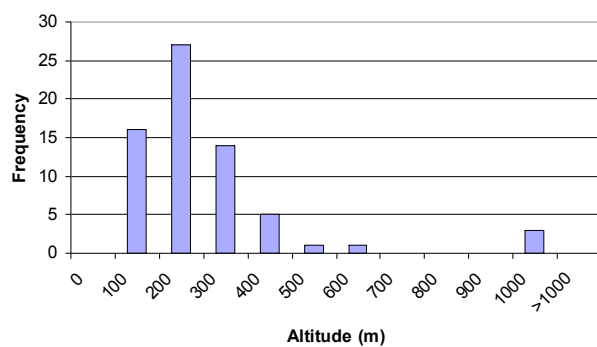


Offadens frater, nymph and typical habitat

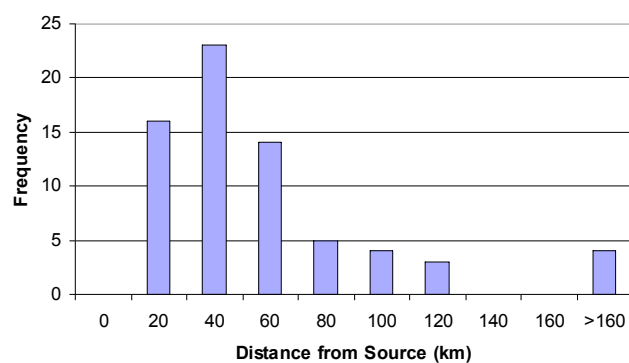


Charts for *Offadens frater*

a) Altitude

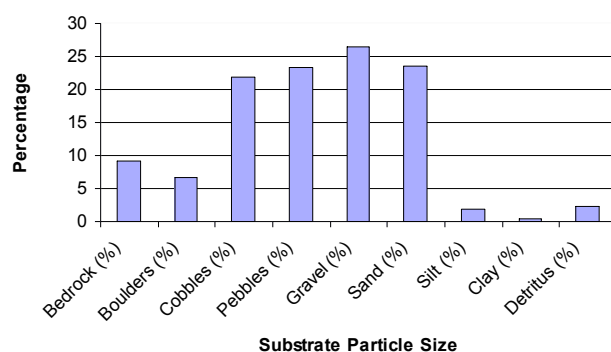


b) Distance from source

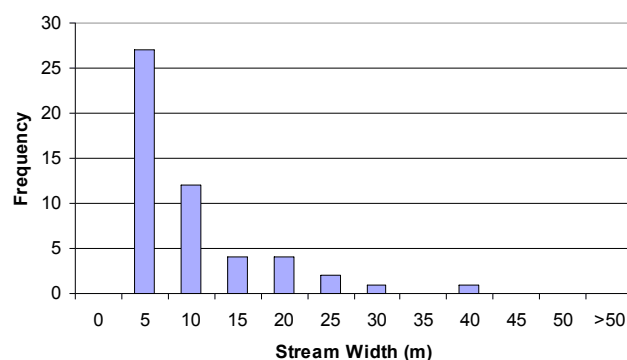




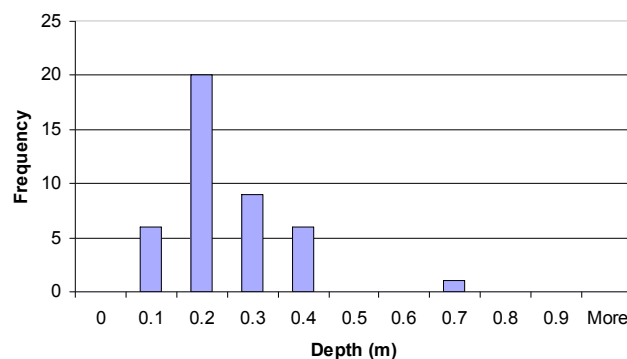
c) Substrate Particle Size



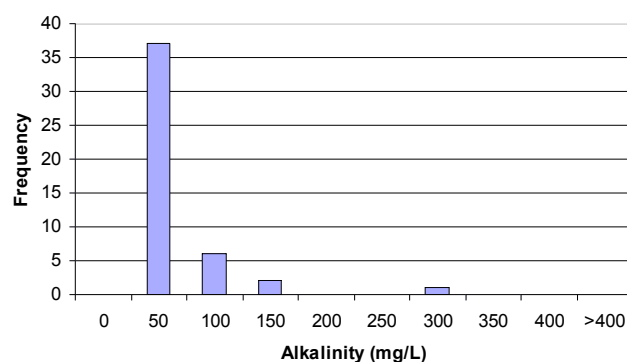
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

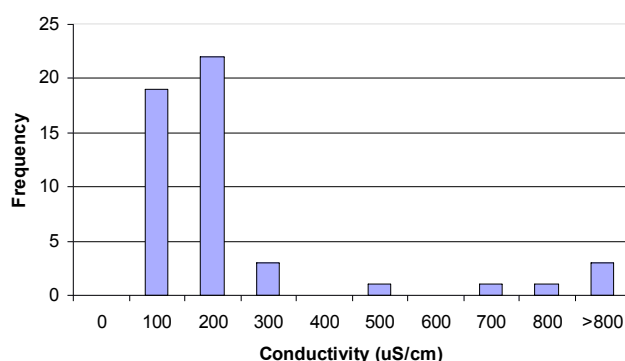


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Offadens frater* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	209	180	5-910	67
Distance from source (km)	55	32	3.3-466	69
Stream width (m)	8.7	5	1-40	51
Stream depth (cm)	0.21	0.19	0.015-0.63	42
Water temperature (°C)	18.2	18.4	12.5-24.7	46
Conductivity (µS/cm)	194	110	15-1100	50
pH	7.6	7.5	6.3-8.6	46
Turbidity (NTU)	7.8	6.2	0.55-43	42
NO ₃ -N (mg/L)	0.151	0.063	0.003-1.80	42
Total N (mg/L)				
Total P (mg/L)	0.041	0.027	0.008-0.130	42
Alkalinity (mg/L)	44.7	33.5	6-300	46

References

Suter PJ (2000) *Edmundsiops hickmani* sp. nov., *Offadens frater* (Tillyard) nov. comb. and description of the nymph of *Cloeon tasmaniae* Tillyard (Ephemeroptera: Baetidae) from Tasmania. *Papers and Proceedings of the Royal Society of Tasmania* **134**, 63-74.