



## Family Baetidae

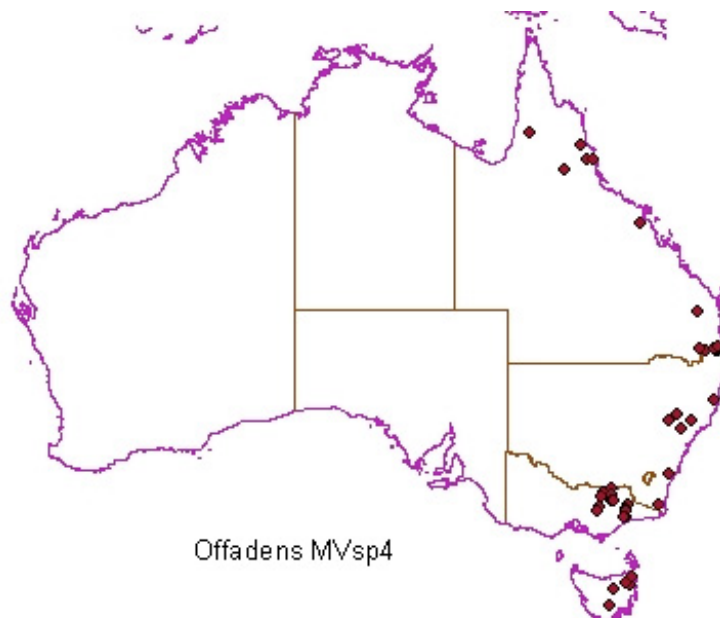
### Habitat Profile for *Offadens* MV sp4

*Offadens* MVsp4 was widespread on the east coast drainage being recorded from 61 samples in Victoria, New South Wales and to northern Queensland. This species has both ecological and life history information published from the studies on the La Trobe River in Victoria (Marchant *et al.* 1984a; Metzeling *et al.* 1984). This species was considered to be a “sensitive species” by (Marchant *et al.* 1984b). (Marchant 1986) gave estimates of the annual production of *Offadens* MVsp4 from the La Trobe River.

*Offadens* MVsp4 was generally recorded in sweep and edge habitat samples with a few records from riffles. The streams generally from lowlands below 500 m altitude (Chart a), < 80 km from the source (Chart b), with predominantly cobbles and sand substrate with <10% detritus cover (Chart c). The streams were between 1-50 m wide (Chart d) and less than 0.5m deep (Chart e), with low to moderate alkalinity between 6.2-475 mg/L (Chart f) and low to moderate conductivity between 23-884 $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 11.3-33.5 °C, pH slightly alkaline, in the range of 6.6-8.8, and low turbidity 0.5-17 NTU.

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



Distribution of *Offadens* MVsp4 in Australia.

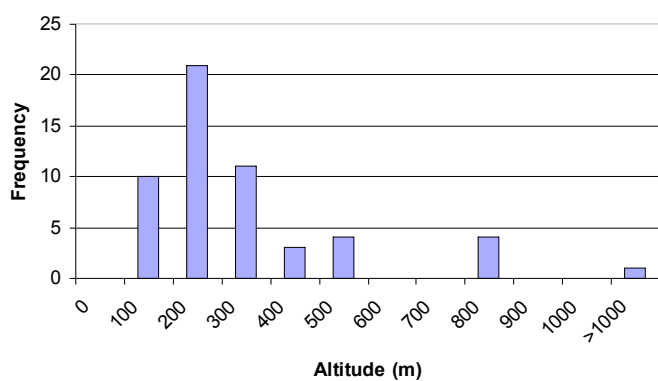


*Offadens* MVsp4, nymph and typical habitat

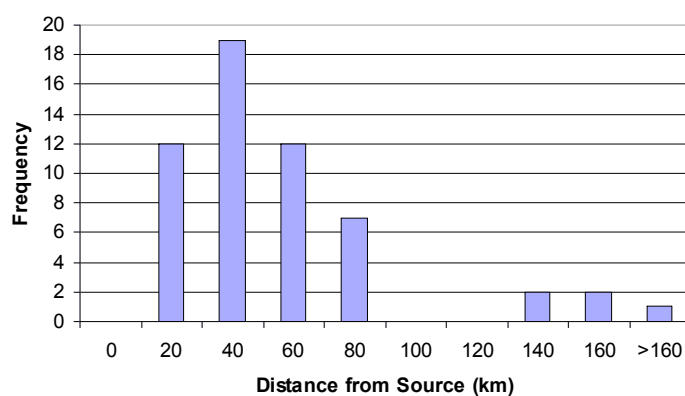


Charts for *Offadens* MVsp4

a) Altitude

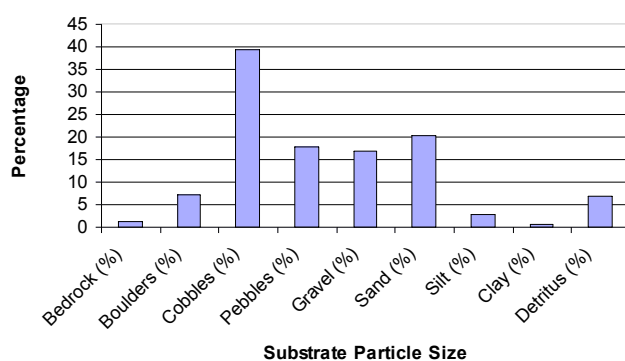


b) Distance from source

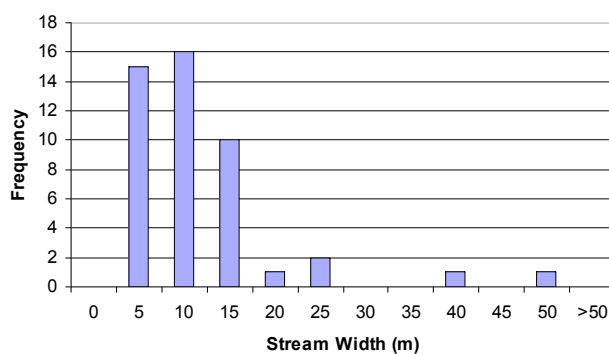




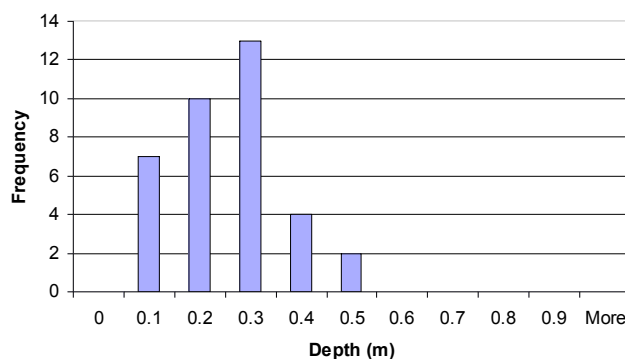
c) Substrate Particle Size



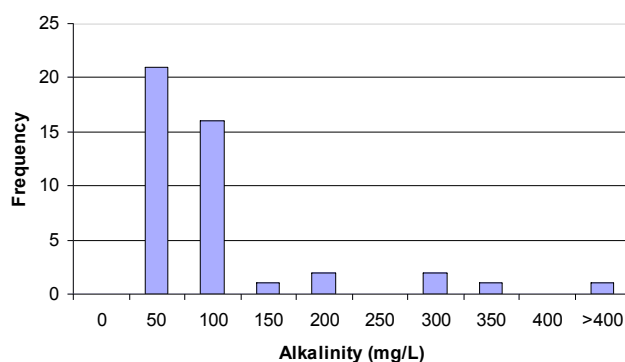
d) Stream Width



e) Depth

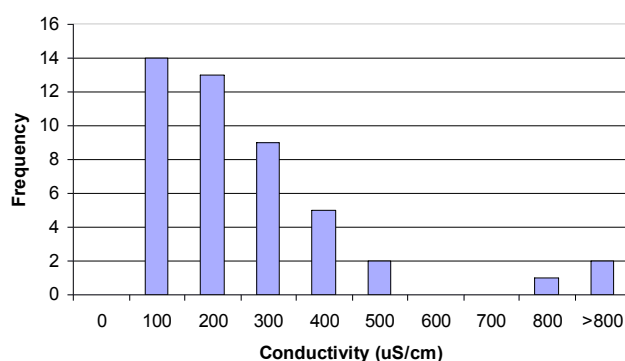


f) Alkalinity





g) Conductivity



**Table.** Mean, median and range for selected physical and chemical parameters and habitat categories for *Offadens* MVsp4 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	249	195	10-1100	54
Distance from source (km)	47	33.4	0.5-285	55
Stream width (m)	10.3	8	1-50	46
Stream Depth (m)	0.23	0.23	0.01-0.50	36
Water temperature (°C)	20.1	20.2	11.3-33.5	44
Conductivity (µS/cm)	210	165	22.9-884	46
pH	7.8	7.7	6.6-8.8	44
Turbidity (NTU)	2.8	2.0	0.5-17	43
NO <sub>3</sub> -N (mg/L)	0.062	0.020	0.003-0.30	19
Total N (mg/L)	0.540	0.376	0.160-3.010	19
Total P (mg/L)	0.038	0.021	0.007-0.540	44
Alkalinity (mg/L)	83.4	54.0	6.2-475	44

References

Marchant R (1986) Estimates of annual production for some aquatic insects from the La Trobe River. *Australian Journal of Marine and Freshwater Research* **37**, 113-120.

Marchant R, Graesser A, Metzeling L, Mitchell P, Norris R, P.Suter (1984a) Life histories of some benthic insects from the La Trobe River, Victoria. *Australian Journal of Marine and Freshwater Research* **35**, 793-806.

Marchant R, Mitchell P, Norris R (1984b) Distribution of benthic invertebrates along a disturbed section of the La Trobe River, Victoria: an analysis based on numerical classification. *Australian Journal of Marine and Freshwater Research* **35**, 355-374.

Metzeling L, Graesser A, Suter P, Marchant R (1984) The distribution of aquatic macroinvertebrates in the upper catchment of the La Trobe River, Victoria. *Occasional Papers from the Museum of Victoria* **1**, 1-62.