



Family Libellulidae

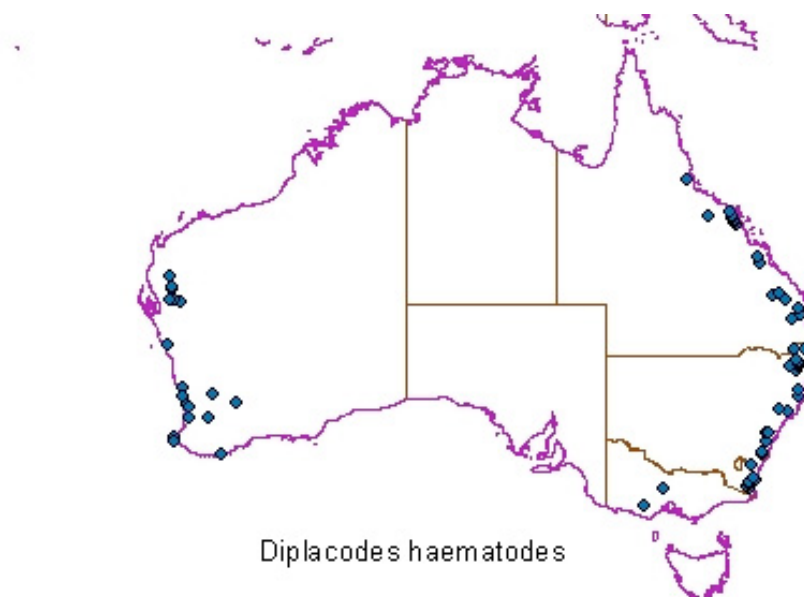
Habitat Profile for *Diplacodes haematodes* (Burmeister)

Diplacodes haematodes (Burmeister) is a widespread species found Australia-wide but not including Tasmania (Houston and Watson 1988; Watson *et al.* 1991). They were recorded from 84 samples from coastal north east Queensland to Victoria and in the south-west of Western Australia up to the Pilbara in this study.

Diplacodes haematodes was generally found in edge, sweep and macrophyte habitats in lowland streams generally below altitudes of 300m (Chart a), but <100km from the stream source (Chart b) with substrate dominated by sand, gravel and pebbles with >15% detrital cover (Chart c). The streams were generally <0.3m deep (Chart e) and <20m wide (Chart d) with low alkalinity generally <200mg/L (Chart f) and with high conductivity ranging from 17 to 5000 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: water temperature between 11-29.6 °C, pH was in range of 6.2-9 and low to high turbidity (0.1-369 NTU).

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



Distribution of *Diplacodes haematodes* in Australia.

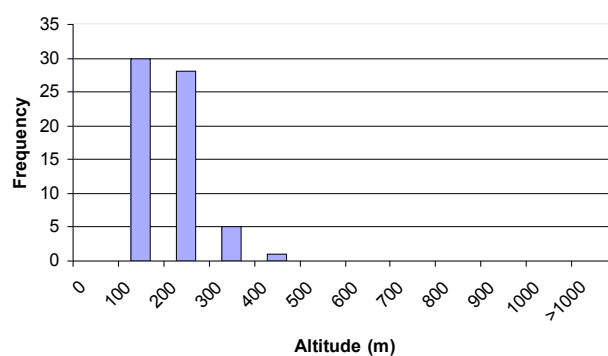


Diplacodes haematodes, nymph and typical habitat

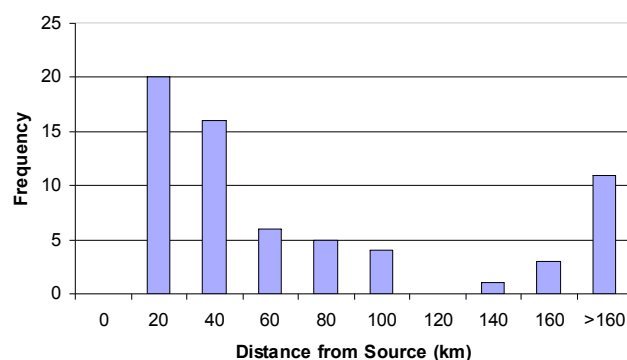


Charts for *Diplacodes haematodes*

a) Altitude

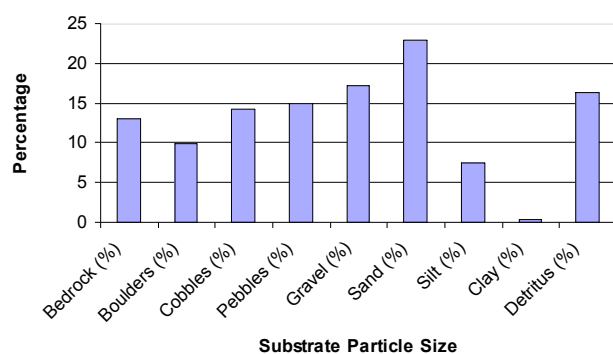


b) Distance from source

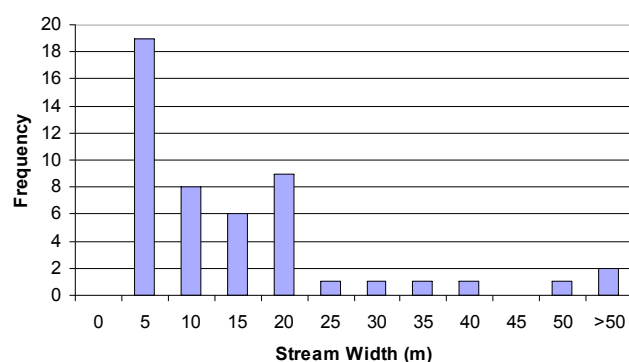




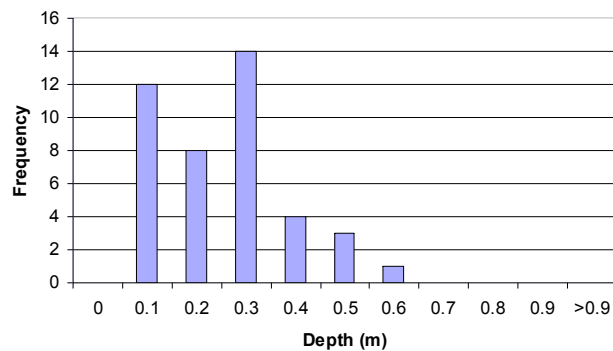
c) Substrate Particle Size



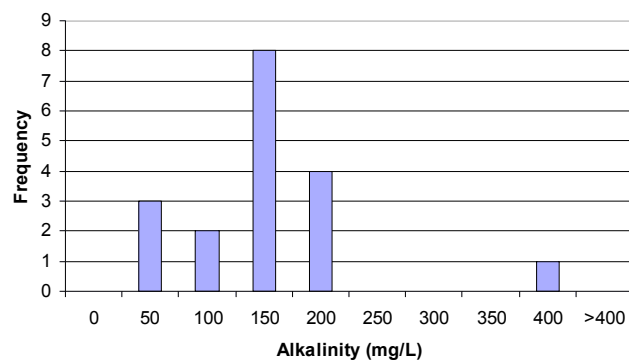
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

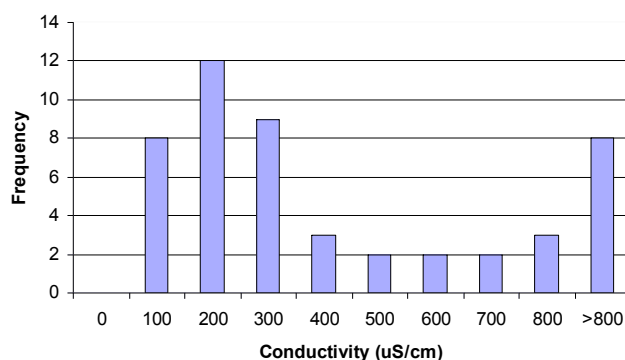


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Diplacodes haematodes* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	114	110	10-370	64
Distance from source (km)	85.9	37.2	7.1-824	66
Width (m)	15.0	10.0	0.5-80	49
Depth (m)	0.24	0.25	0.02-0.60	42
Water temperature (°C)	21.3	21.6	10.8-29.6	49
Conductivity (µS/cm)	575	270	17-4770	49
pH	7.9	7.9	6.2-9.0	52
Turbidity (NTU)	21.3	2.0	0.1-369	43
Oxidised Nitrogen (mg/L)	0.050	0.010	0.003-0.500	28
Total N (mg/L)	0.663	0.510	0.210-2.110	34
Total P (mg/L)	0.044	0.016	0.005-0.510	50
Alkalinity (mg/L)	93.5	67.0	10-320	49

References

Houston WWK, Watson JAL (1988) Odonata. In 'Zoological Catalogue of Australia'. (Eds DW Walton and WWK Houston) pp. 33-132. (Australian Government Publishing Service: Canberra)

Watson JAL, Theischinger G, Abbey HM (1991) 'The Australian Dragonflies. A guide to the identification, distributions and habitats of Australian Odonata.' (CSIRO: Canberra and Melbourne)