



Family Baetidae

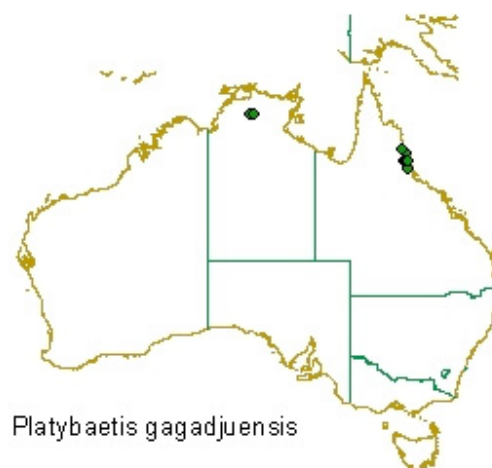
Habitat Profile for *Platybaetis gagadjuensis* Suter

Platybaetis gagadjuensis was described by (Suter 2001) from the Northern Territory and Queensland. During this study it was recorded from 14 localities in northern Queensland and the Northern Territory. Suter (2001) noted that *P. gagadjuensis* was collected from riffle zones in rivers, principally from on rocks in moderately flowing water. There also appeared to be a distinct activity pattern with nymphs more commonly found in the morning but rare in the afternoon.

P. gagadjuensis was recorded lowland streams <200m altitude (Chart a), <80 km from the stream source (Chart b) and from cobble substrate with <15% detritus cover (Chart c). The streams were generally less than 20m wide (Chart d), and less than 0.4m deep (Chart e) with low alkalinity (<50mg/L) (Chart f) and low turbidity (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 20.4-27.4 °C, pH slightly acidic in the range of 5.6-7.7, and low turbidity 0.5-49 NTU.

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



Distribution of *Platybaetis gagadjuensis* in Australia.

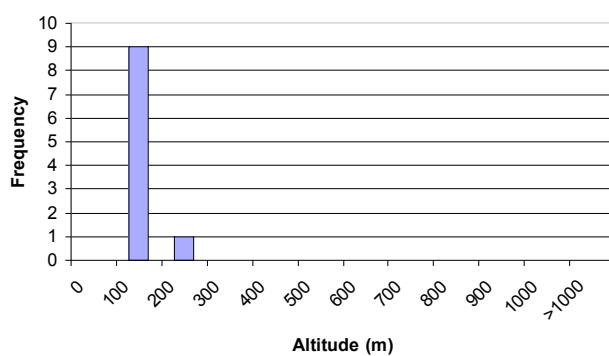


Platybaetis gagadjuensis, nymph and typical habitat

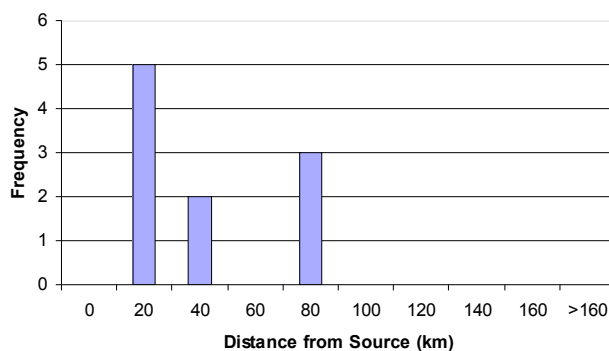


Charts for

a) Altitude

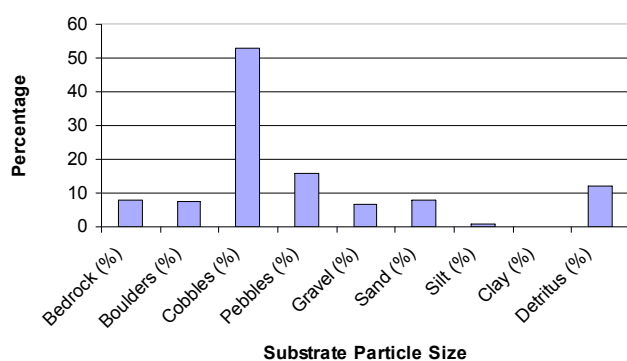


b) Distance from source

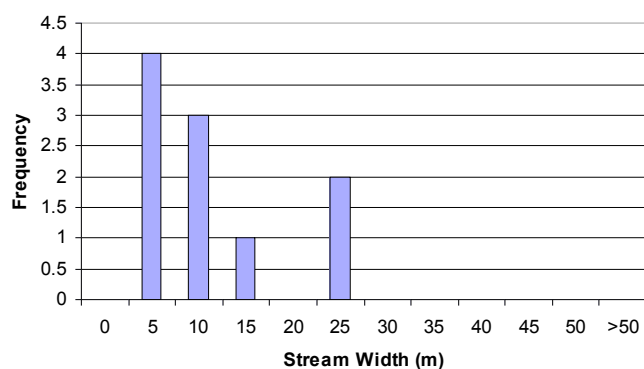




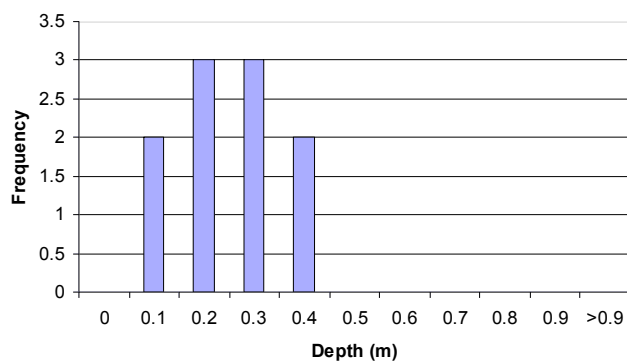
c) Substrate Particle Size



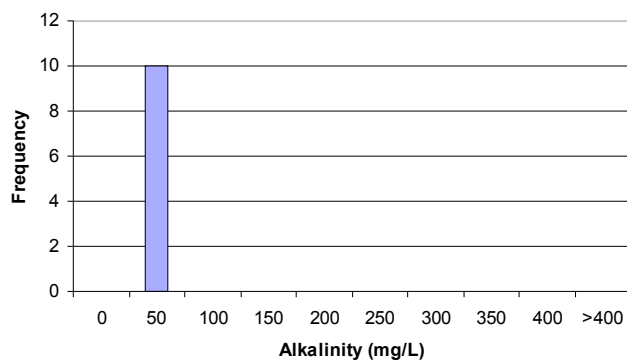
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

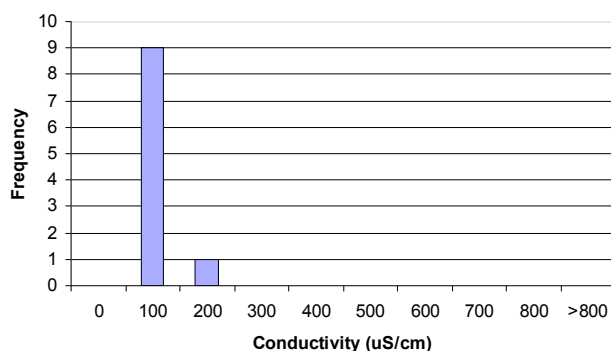


Table. Mean and median physical and chemical parameters and habitat categories for *Platybaetis gagadjuensis*.

	Mean	Median	Range	N
Altitude (m)	30	10	5-115	10
Distance from source (km)	32.4	21	1.3-72.2	10
Width (m)	10.5	6.5	2-25	10
Depth (m)	0.25	0.25	0.1-0.4	10
Water Temperature	23.75	23.8	20.4-27.4	10
Conductivity ($\mu\text{S/cm}$)	69.6	60.0	47-165	10
pH	6.8	6.7	5.6-7.7	10
Turbidity (NTU)	7.9	3.4	0.5-49	10
NO ₃ -N (mg/L)				
Total N (mg/L)	0.199	0.165	0.06-0.59	10
Total P (mg/L)	0.025	0.019	0.009-0.073	10
Alkalinity	17.6	18.4	10.5-26.5	10

References

Suter PJ (2001) *Platybaetis gagadjuensis*, a new species from Northern Australia (Ephemeroptera: Baetidae). In 'Trends in Research in Ephemeroptera and Plecoptera'. (Ed. E Dominguez) pp. 359-364. (Kluwer Academic/Plenum Publishers: New York)