



FAMILY POLYCENTROPODIDAE

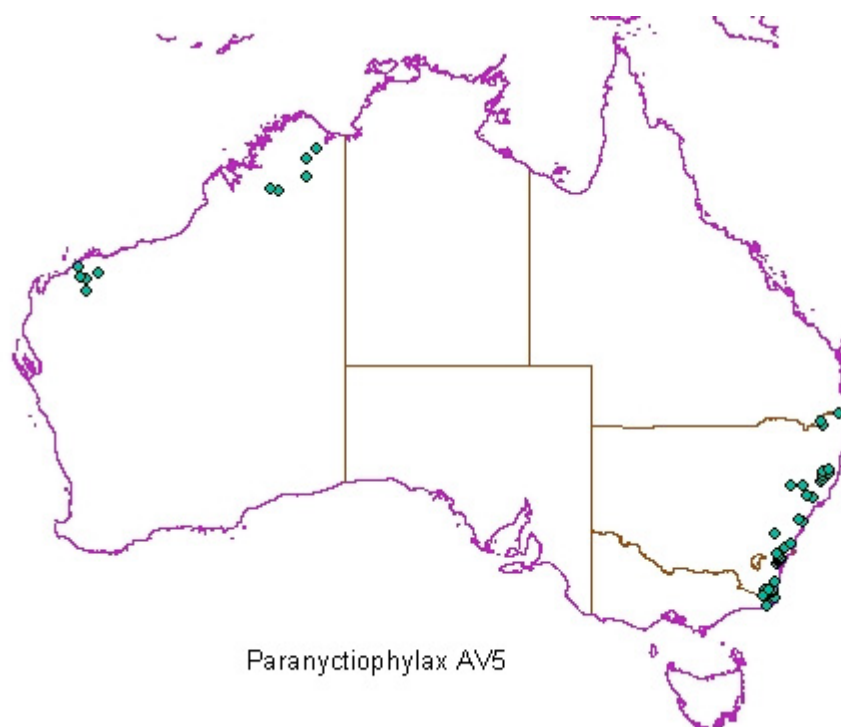
Habitat profile for *Paranyctiophylax* sp. AV5

Paranyctiophylax sp. AV5 was recorded from 89 Victorian, New South Wales, Queensland and northern Western Australian localities in this study. This species was also previously recorded from the Northern Territory (Cartwright 1998).

Paranyctiophylax sp. AV5 was generally recorded in edge and pool habitat samples from low to moderate altitude streams between 10-840 m (Chart a), 0.6-490 km from the source (Chart b), with a fairly even spread of cobble, sand, pebble and gravel substrates with moderate (<25%) detritus cover (Chart c). The streams were between 1-15 m wide (Chart d) and usually between 0.08-0.5 m deep (Chart e), with low to moderate alkalinity between 10-290 mg/L (Chart f) and low to high conductivity mostly between 17-1390 $\mu\text{S}/\text{cm}$ (Chart g).

The following generalities can be made about the other parameters listed in the Table: moderate to very high recorded water temperatures (between 12-30.5 °C), pH circum-neutral (range 5-8.5), and low turbidity (<16.5 NTU).

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

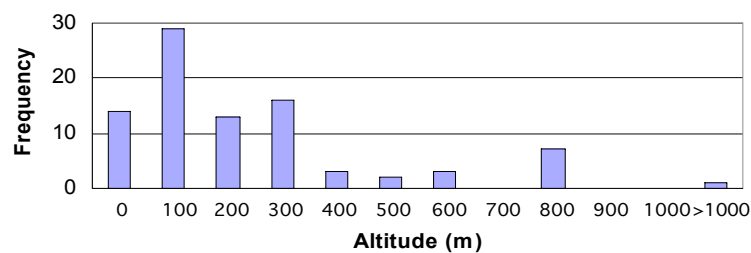


Distribution of *Paranyctiophylax* sp AV5 in Australia.

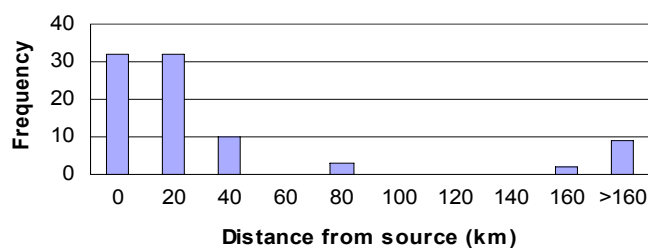


Charts for *Paranyctiophylax* sp AV5

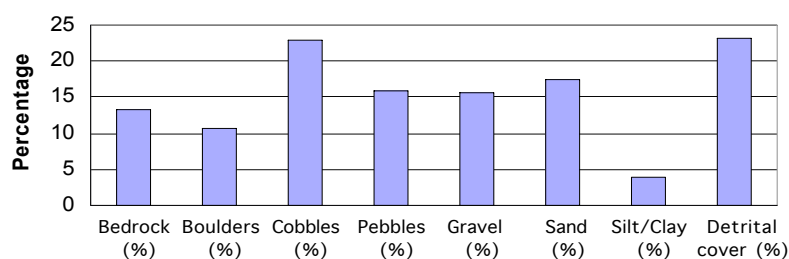
a) Altitude



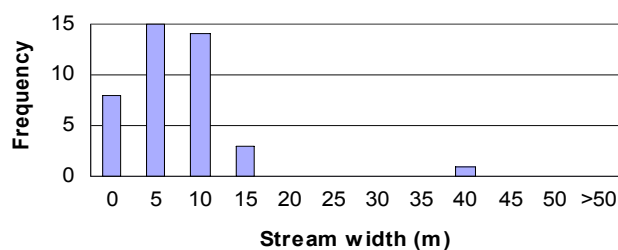
b) Distance from source



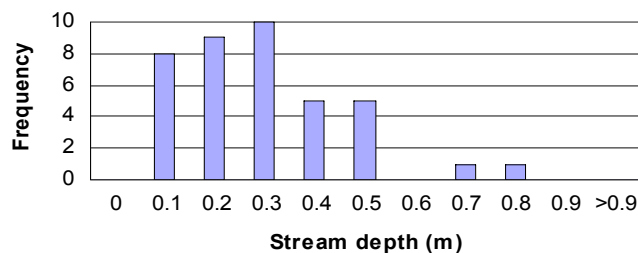
c) Substrate Particle Size



d) Stream Width

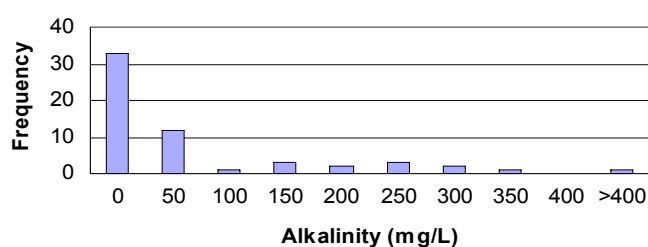


e) Depth





f) Alkalinity



g) Conductivity

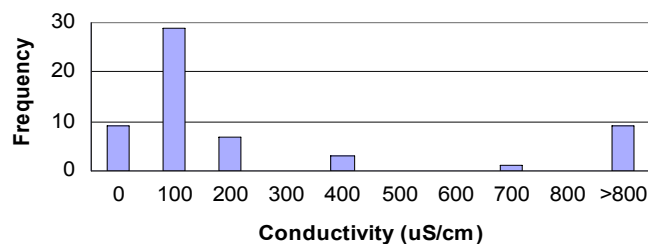


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *Paranyctiophylax* sp. AV5 (N= number of records).

	Mean	Median	Range	N
Altitude (m)	238	170	10-1100	88
Distance from source (km)	62	17	0.6-600	88
Stream width (m)	7.2	5	1-40	41
Stream depth (m)	0.29	0.25	0.08-0.8	39
Water temperature (°C)	19.5	19.1	10.7-33	57
Conductivity (uS/cm)	318	96	4-2360	58
pH	7.2	7.2	4.8-8.6	58
Alkalinity (mg/L)	66	18	6-410	58
Turbidity (NTU)	4.2	2	0-16	58
Total N (mg/L)	0.28	0.26	0-1.0	29
NO ₃ -N (mg/L)	0.04	0.01	0.003-0.27	46
Total P (mg/L)	0.013	0.01	0.005-0.066	47
P SR (mg/L)	0.008	0.01	0.005-0.01	17

References

Cartwright DI (1998) 'Preliminary guide to the identification of late instar larvae of Australian Polycentropodidae, Glossosomatidae, Dipseudopsidae and Psychomyiidae (Insecta: Trichoptera).' (Cooperative Research Centre for Freshwater Ecology: Albury)