



Family Coloburiscidae

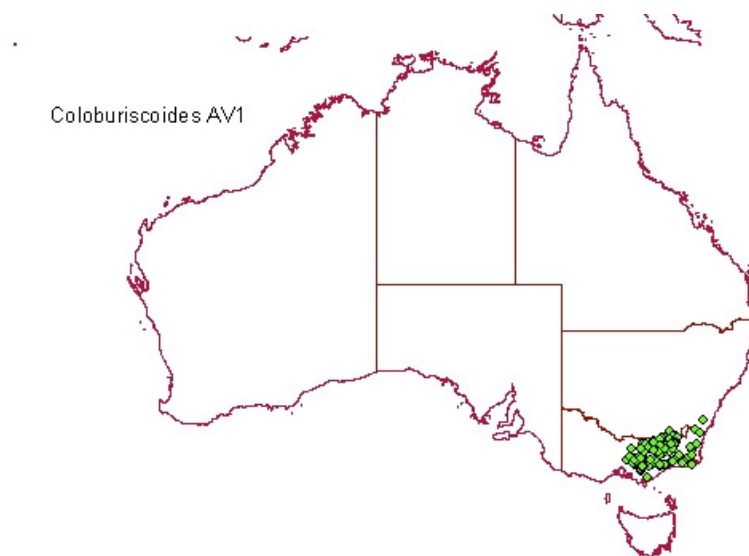
Habitat Profile for *Coloburiscoides* sp AV1

Three species of *Coloburiscoides* have been described, but only the nymphs of *Coloburiscoides giganteus* have been described (Tillyard 1933), and nymphs of other species have not been directly associated with adults and determination of species is difficult. Cambell (1986) described the life histories of 4 species of *Coloburiscoides*, but still it is unclear which nymph belongs to which of the described species. Only two species are morphologically distinguished in the nymphal stage and these are designated as Australian Voucher Species (AV1) and Australian Voucher Species (AV2) (Dean *pers. com.*). These two taxa may both be inclusive of more than one species. Until a detailed study of the morphology of nymphs is undertaken no certainty can be placed beyond the Australian Voucher identifications.

Coloburiscoides AV1 was common in eastern Victoria and south eastern New South Wales being collected from over 250 sites. Nymphs were found in riffle samples from a wide range of streams from high altitude (1860m) to lowlands (10m) (Chart a), which were close to the source to over 400km from the source (Chart b) and from sites with substrate dominated by clean boulders and cobbles which had less than 5% detrital cover (Chart c). The streams were from 0.8 to 30m wide (Chart d) and *Coloburiscoides* AV1 was usually found in shallow water usually less than 0.2m deep (Chart e). The streams had circum-neutral pH, were very low in turbidity, alkalinity (Chart f) and conductivity (Chart g).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 4.2-25 °C, pH mostly in range of 5.3-8.6 and low turbidity of <36 NTU.

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



Distribution of *Coloburiscoides* spAV1 in Australia.

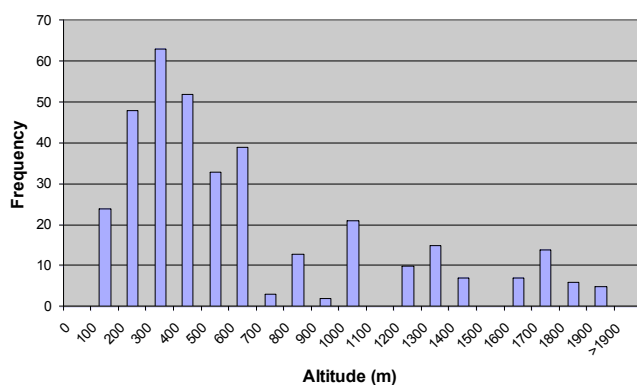


Coloburiscoides AV1, nymph and typical habitat

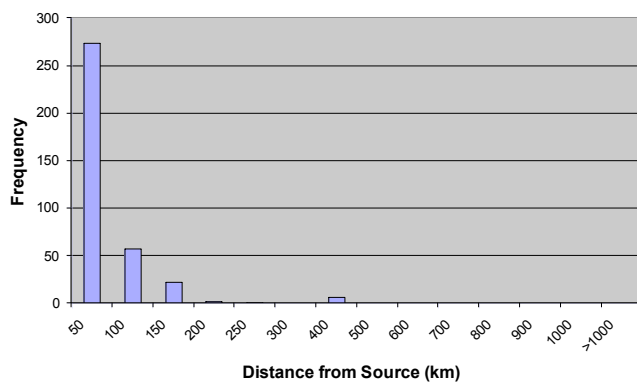


Charts for *Coloburiscoides* AV1

a) Altitude

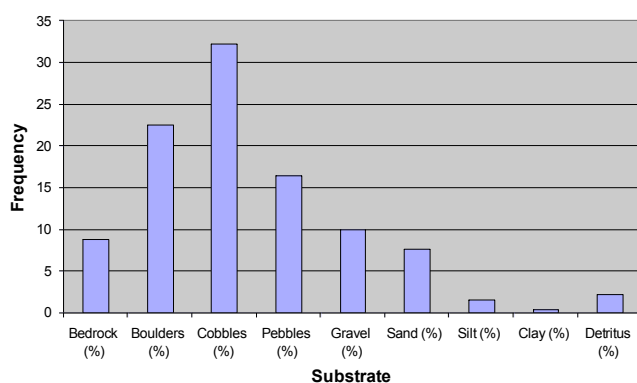


b) Distance from source

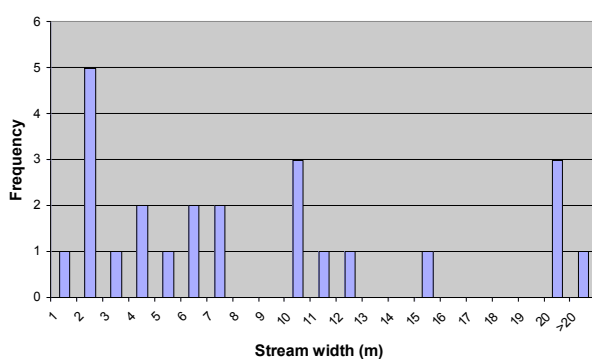




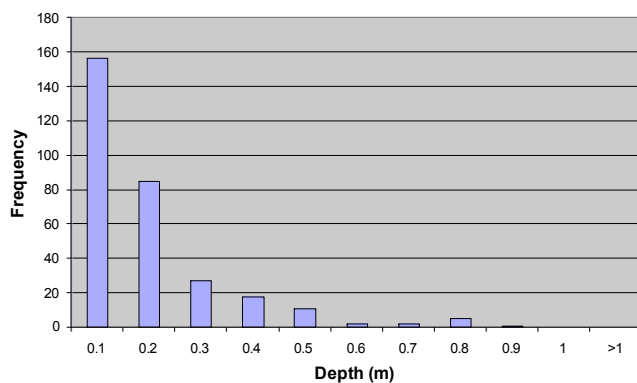
c) Substrate Particle Size



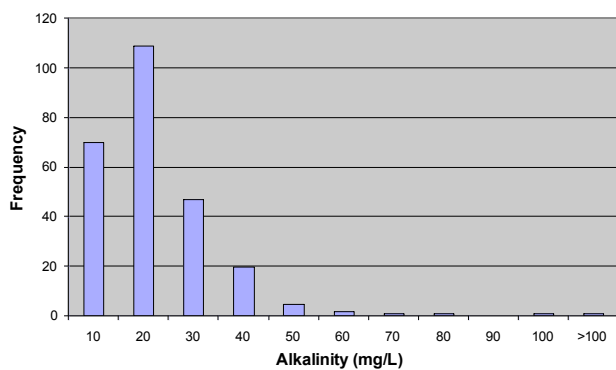
d) Stream Width



e) Depth



f) Alkalinity





g) Conductivity

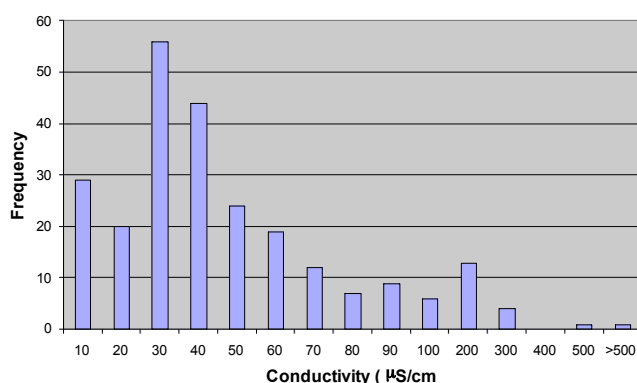


Table. Mean and median physical and chemical parameters for *Coloburiscoides* AV1.

	Mean	Median	Range	n
Altitude (m)	576	380	10-1860	362
Distance from source (km)	38.5	22	0.7-419	362
Width (m)	8.8	6.5	0.8-30	24
Depth (m)	0.17	0.10	0.01-0.85	308
Water Temperature	14.9	15.0	4.5-25	256
Conductivity (µS/cm)	49	35	0-538	245
pH	7.3	7.4	5.3-8.6	256
Turbidity (NTU)	3.0	1.9	0-35.8	248
Oxidised Nitrogen (mg/L)	0.120	0.030	0.001-0.400	252
Total N (mg/L)				
Total P (mg/L)	0.013	0.015	0.010-0.120	252
Alkalinity (mg/L)	19.6	17	0-190	257

References

Campbell IC (1986) Life histories of some Australian siphonurid and oligoneurid mayflies (Insecta: Ephemeroptera). *Australian Journal of Marine and Freshwater Research* **37**, 261-288.

Tillyard RJ (1933) The mayflies of the Mount Kosciusko region. I. (Plectoptera.) Introduction and Family Siphonuridae. *Proceedings of the Linnaean Society of New South Wales* **58**, 1-32.