



Family Leptophlebiidae

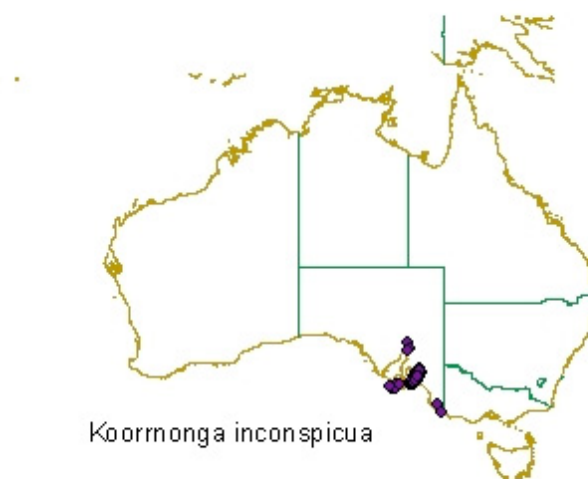
Habitat Profile for *Koornonga inconspicua* (Eaton)

Koornonga inconspicua is a South Australian endemic species (Campbell and Suter 1988) and was recorded from 348 South Australian localities.

In this study, *K. inconspicua* was generally recorded in edge, riffle and macrophyte habitat samples from streams below 350 m altitude (Chart a), < 65 km from the source (Chart b), with predominantly finer silt, sand and clay substrates with over 20% detrital cover (Chart c). Stream width was between 2-15 m (Chart d), alkalinity between 60-420 mg/L (Chart e) and relatively high conductivity ranging from 1000-8000 $\mu\text{S}/\text{cm}$ (Chart f).

The following generalities can be made about the other parameters listed in the Table: recorded water temperature between 12-21 °C, pH slightly alkaline, mostly in range of 7-9, low turbidity 1-30 NTU, substrate with low algal (< 15%) and high detritus (< 55%) cover.

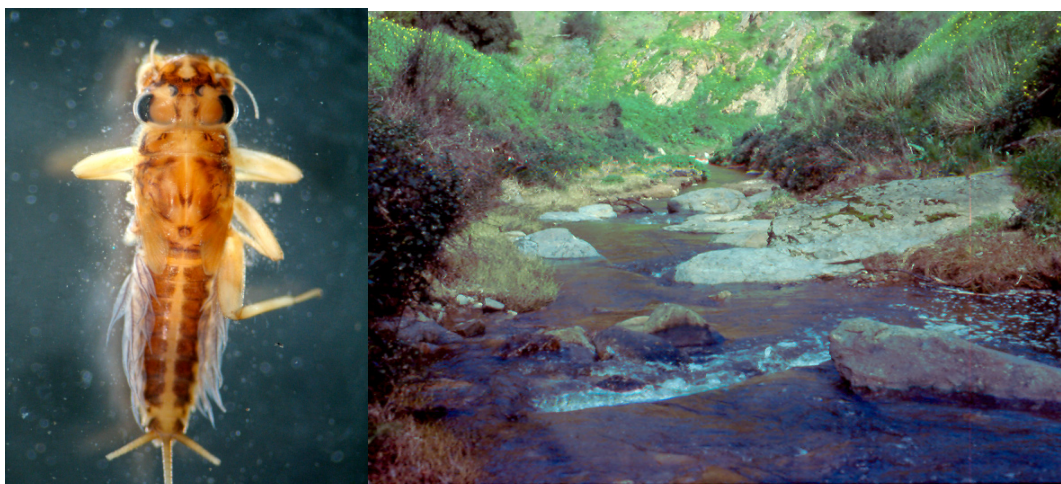
Mean, median and range for selected physical and chemical parameters and habitat categories are given in the Table.



Distribution of *Koornonga inconspicua* in Australia

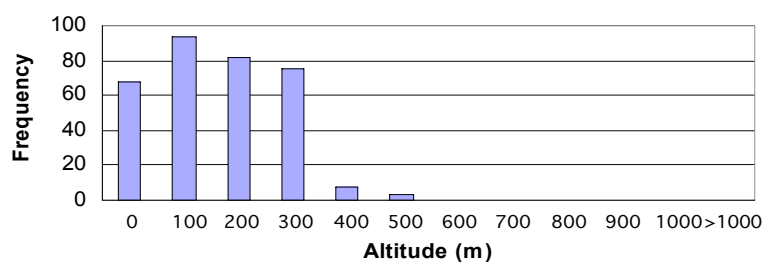


Koornonga inconspicua, nymph and typical habitat

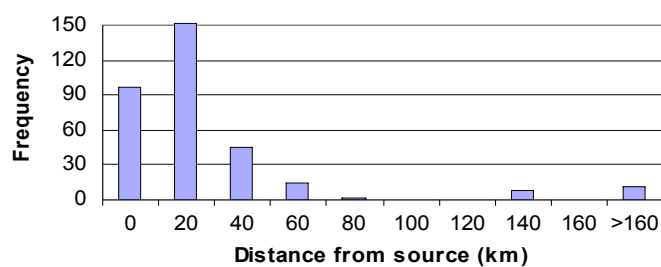


Charts for *Koornonga inconspicua*

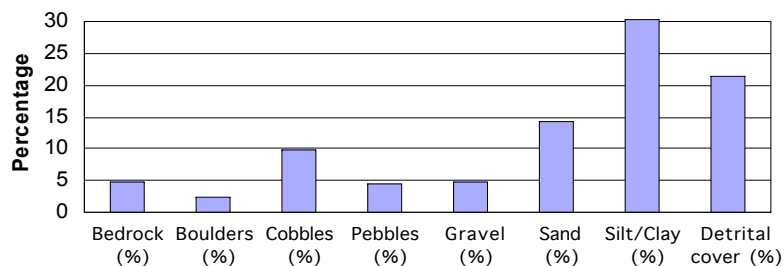
a) Altitude



b) Distance from source

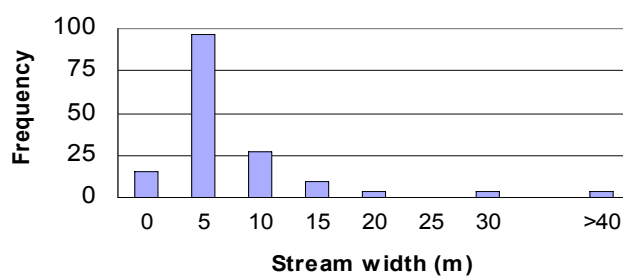


c) Substrate Particle Size

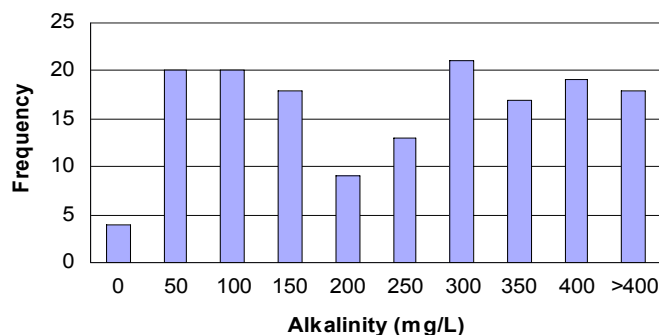




d) Stream Width



e) Alkalinity



f) Conductivity

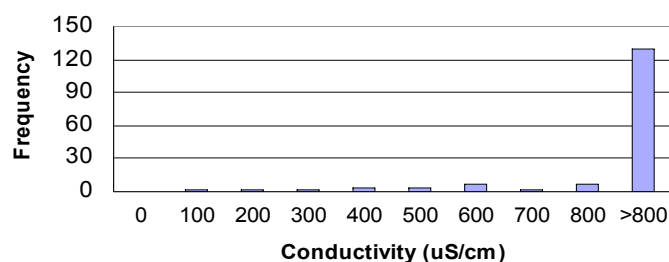


Table. Mean, median and range for selected physical and chemical parameters and habitat categories for *K.inconspicua* (N= number of records).

	Mean	Median	Range	N
Altitude (m)	162	155	5-525	329
Distance from source (km)	61	14.5	2.2-1094	329
Stream width (m)	7.9	5.3	1.2-82.5	157
Stream depth (cm)				
Water temperature (°C)	16.0	15.5	10.6-24.5	157
Conductivity (µS/cm)	7540	3535	82-14000	157
pH	8.0	8.0	6.6-9.4	157
Turbidity (NTU)	24	5.4	0.3-560	155
NO ₃ -N (mg/L)	0.26	0.015	0.0025-8.5	157
Total N (mg/L)	1.3	0.63	0.1-14.9	155
Total P (mg/L)	0.2	0.04	0.0025-15.6	155
Alkalinity (mg/L)	246	256	13-590	157



References

Campbell IC, Suter PJ (1988) Three new genera, a new suggenus and a new species of Leptophlebiidae (Ephemeroptera) from Australia. *Journal of the Australian Entomological Society* **27**, 259-273.