



## Family Austroperlidae

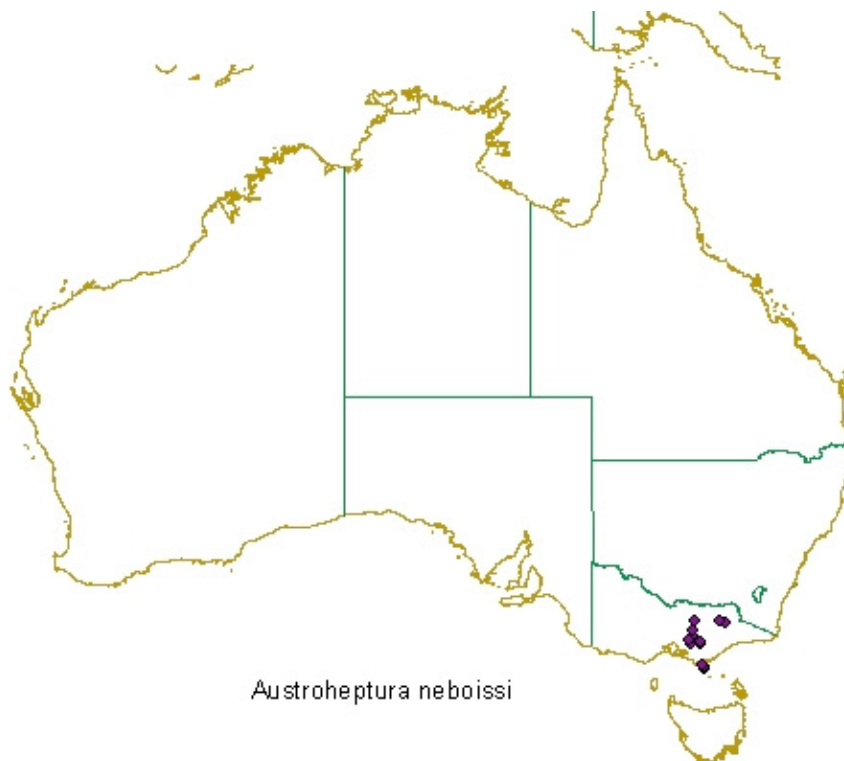
### Habitat Profile for *Austroheptura nevoissi* Illies

*Austroheptura nevoissi* Illies was recorded from 33 samples in Victoria. Michaelis and Yule (1988) recorded this species from Victoria in alpine forested streams near Mt Baw Baw, Mt Buller, Mt Erica, Mt Donna Buang and Lake Mt.

*A. nevoissi* was recorded from kick samples from flowing water in streams generally above 900m altitude (Chart a) in Victoria, close to the stream source (<40km) (Chart b) and the substrate was dominated by cobbles with virtually no detrital cover (Chart c). Streams were generally <10m wide (Chart d), depth was <0.3m (Chart e) with low alkalinity (Chart f) and low conductivity <100 $\mu$ S/cm (Chart g).

The following generalities can be made about the other parameters listed in the Table: low water temperature (3.9-15.5 °C), pH was circum-neutral, range 6.6-8.0 and very low turbidity (0.3-32 NTU).

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



Distribution of *Austroheptura nevoissi* in Australia.

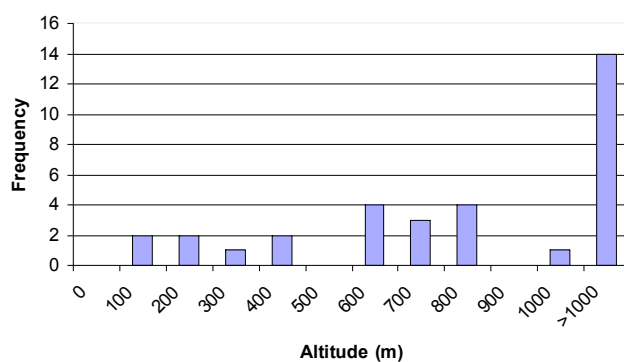


## Austroheptura nevoissi, nymph and typical habitat

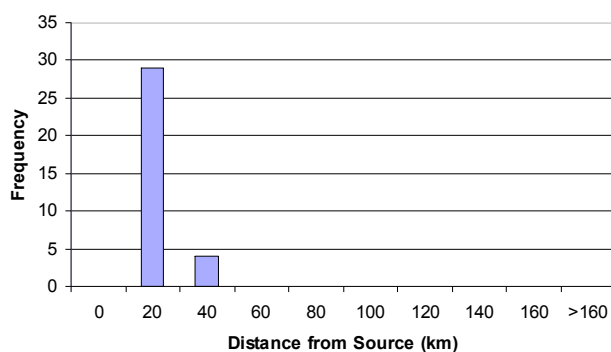


### Charts for *Austroheptura nevoissi*

#### a) Altitude

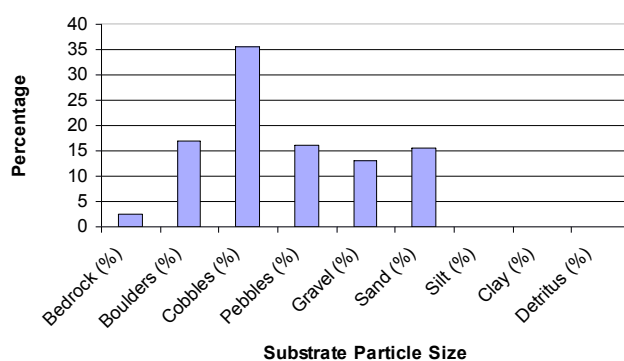


#### b) Distance from source

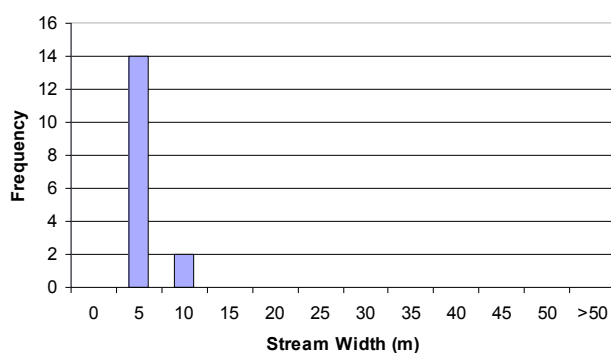




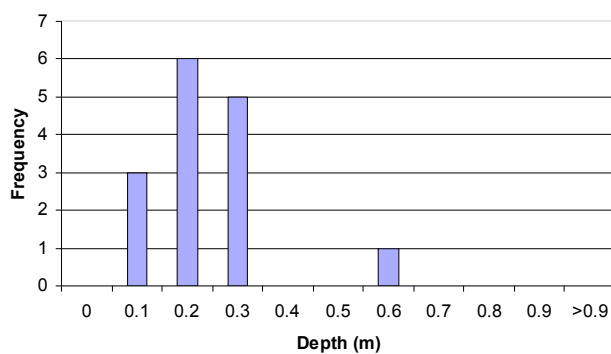
c) Substrate Particle Size



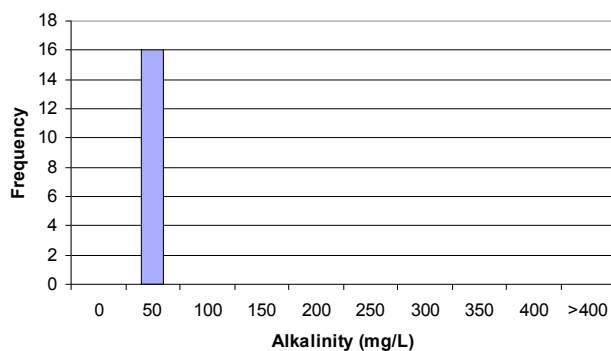
d) Stream Width



e) Depth

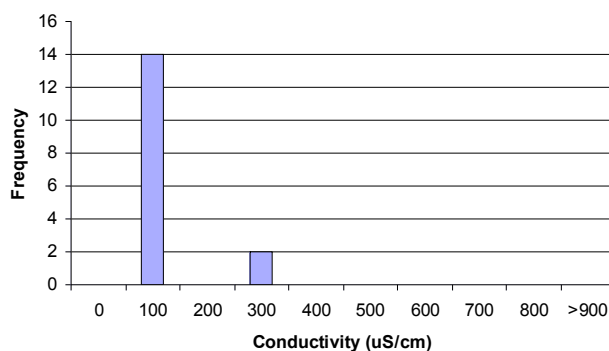


f) Alkalinity





g) Conductivity



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

|                           | Mean  | Median | Range       | N  |
|---------------------------|-------|--------|-------------|----|
| Altitude (m)              | 919   | 720    | 20-1460     | 33 |
| Distance from source (km) | 6.7   | 2.4    | 0.1-38.9    | 33 |
| Width (m)                 | 3.1   | 3.3    | 0.4-6.0     | 16 |
| Depth (m)                 | 0.19  | 0.18   | 0.05-0.52   | 15 |
| Water Temperature (°C)    | 10.0  | 9.5    | 3.9-15.5    | 16 |
| Conductivity (µS/cm)      | 52.3  | 25.6   | 10-260      | 16 |
| pH                        | 7.2   | 7.1    | 6.6-8.0     | 15 |
| Turbidity (NTU)           | 1.2   | 1.1    | 0.3-32      | 16 |
| NO3-N (mg/L)              | 0.088 | 0.009  | 0.003-0.370 | 11 |
| Total N (mg/L)            |       |        |             |    |
| Total P (mg/L)            | 0.013 | 0.014  | 0.005-0.020 | 11 |
| Alkalinity (mg/L)         | 9.5   | 6.5    | 5-25        | 16 |

References

Michaelis FB, Yule C (1988) Plecoptera. In 'Zoological Catalogue of Australia 6. Ephemeroptera, Megaloptera, Odonata, Plecoptera, Trichoptera'. (Eds DW Walton and WWK Houston) pp. 133-176. (Brown Prior Anderson Pty. Ltd.: Burwood, Victoria)