

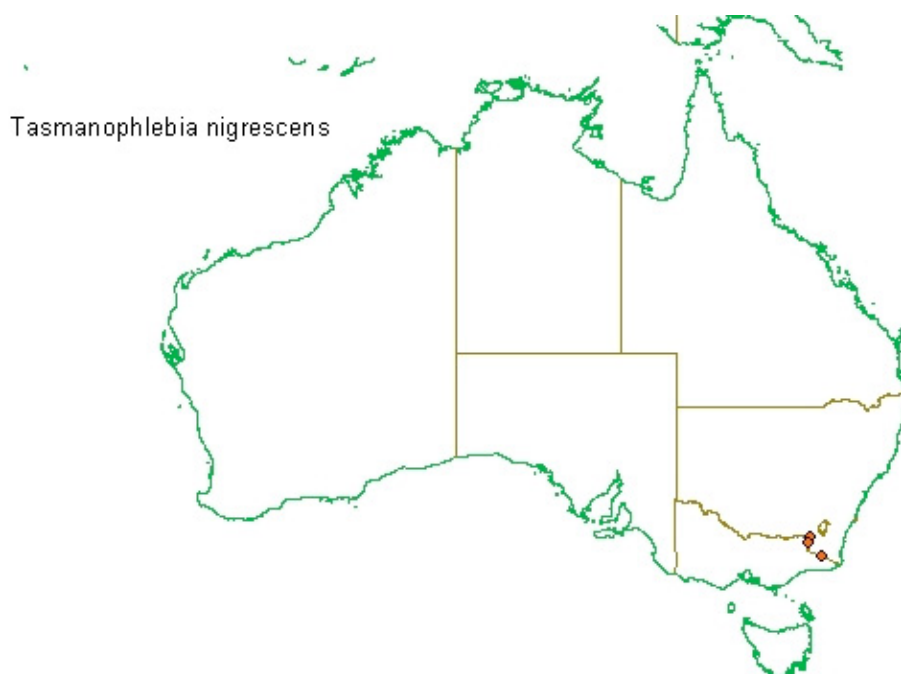


Family Oniscigastridae

Habitat Profile for *Tasmanophlebia nigrescens* Tillyard

Tasmanophlebia nigrescens was described from Spencers Creek, Mt Kosciuszko by Tillyard (1933). It has only been recorded from the Kosciuszko area, and during this study only 4 samples from 3 locations had *T. nigrescens* nymphs present. A high altitude species it was also found down to 500m near Tooma (Chart a) and close to the source of the stream (Chart b). The sites had a high percentage of bedrock, boulders and sand but also 15% detrital cover (Chart c). As with other members of this family, *T. nigrescens* was found in sweep samples near the edge of streams < 6m wide (Chart d) and in shallow water <0.4m deep (Chart e). The pH was circum-neutral and turbidity, alkalinity (Chart f) and conductivity (Chart g) were all low.

Physiochemical parameters are presented in the Table but as these were based on only four samples these results are tentative.



Distribution of *Tasmanophlebia nigrescens* in Australia.

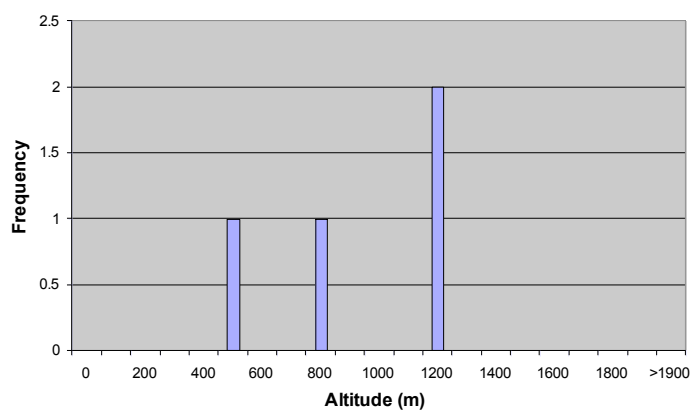


Tasmanophlebia nigrescens, nymph and typical habitat

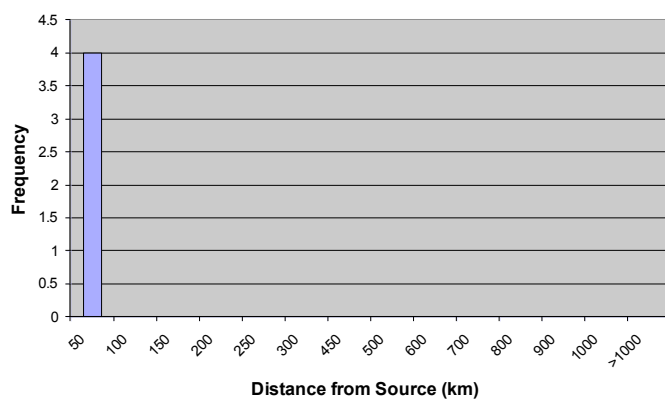


Charts for *Tasmanophlebia nigrescens*

a) Altitude

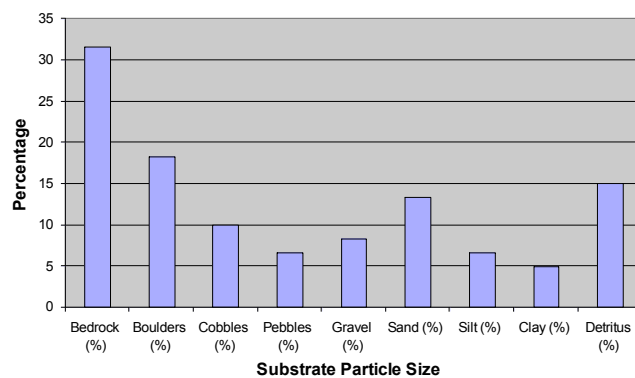


b) Distance from source

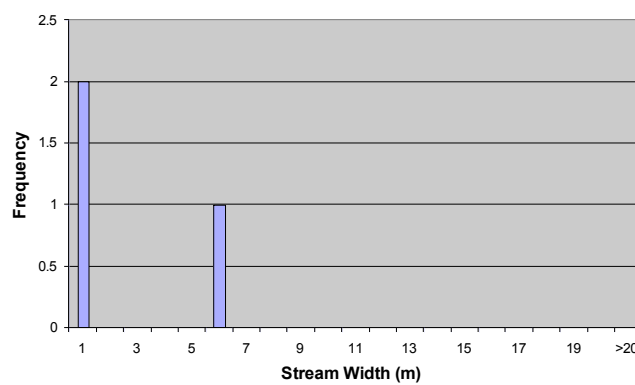




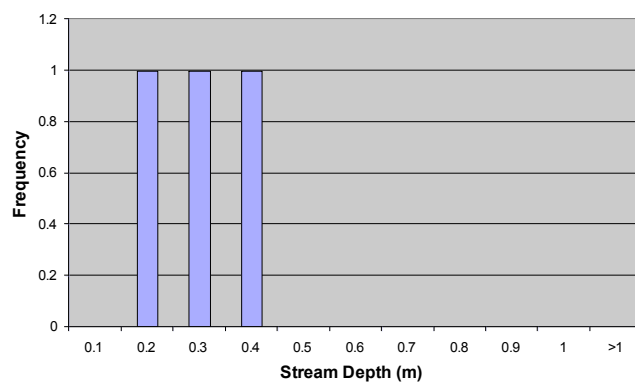
c) Substrate Particle Size



d) Stream Width

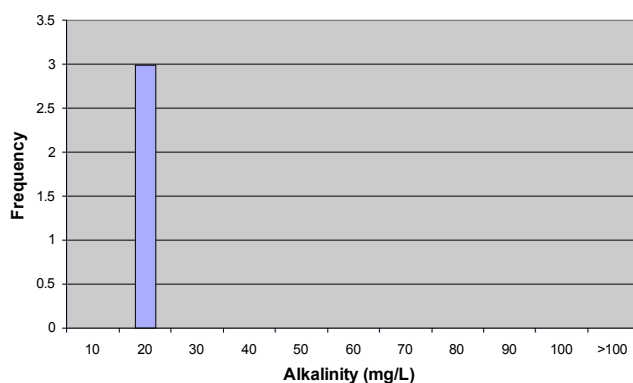


e) Depth





f) Alkalinity



g) Conductivity

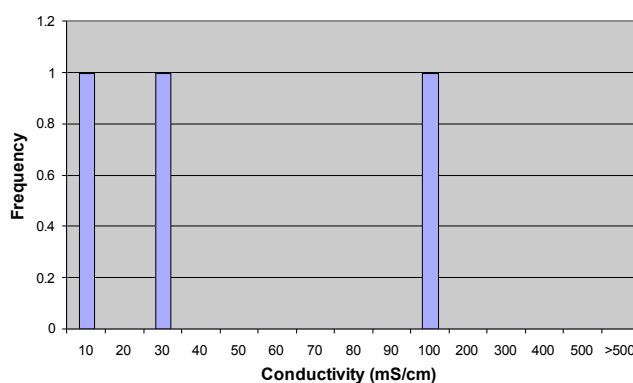


Table. Mean and median physical and chemical parameters for *Tasmanophlebia nigrescens*.

	Mean	Median	Range	n
Altitude (m)	902	965	500-1180	4
Distance from source (km)	30.7	26.9	21.9-46.9	4
Width (m)	2.7	1	1-6	3
Depth (m)	0.3	0.3	0.2-0.4	3
Water Temperature	10.3	10.6	7.3-13	3
Conductivity (µS/cm)	44	29	4-100	3
pH	7.1	7.2	6.9-7.3	3
Turbidity (NTU)	4.5	3.4	3-7.2	3
Oxidised Nitrogen (mg/L)	0.030	0.030	0.010-0.050	3
Total N (mg/L)				
Total P (mg/L)	0.010	0.010	0.010-0.030	3
Alkalinity (mg/L)	15.7	18	11-18	3

References

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