



## *Isidorella ferruginea* (A. Adams & Angas, 1864)



*Isidorella ferruginea* (adult size 11-19 mm)



Distribution of *Isidorella ferruginea*.

### Disclaimer

This genus is in need of revision, as the species concepts we have used have not been rigorously tested. Unpublished molecular data indicate that the species units we are here using appear to be justified, however they are not accompanied by clear-cut morphological characters that allow separation based on shell characters alone. As the species units appear to be overall concordant with state boundaries, we have used these boundaries to delimit species. This situation is not ideal and can only be resolved by additional molecular and morphological studies involving dense sampling.

### Diagnostic features

Very similar in appearance to *Isidorella newcombi*, but lacking spiral striae and not umbilicate. Confined to coastal drainages in northern Australia.

### Classification

*Isidorella ferruginea* (A. Adams & Angas, 1864)

Class Gastropoda

*Infraclass* Heterobranchia

*Megaorder* Hygrophila

*Order* Lymnaeida

*Superfamily* Planorboidea

*Family* Planorbidae

*Subfamily*: Miratestinae

*Genus* *Isidorella* Tate, 1896

*Original name*: *Physa ferruginea* A. Adams & Angas, 1864. In Adams A. & Angas, G.F. (1864). Descriptions of new species of freshwater shells collected by Mr. F.G. Waterhouse during J. McDonald Stuart's overland journey from Adelaide to the north west coast of Australia. *Proceedings of the Zoological Society of London* 1863: 414-418.

*Type locality*: Arnheim's Land (=Arnhem Land), Northern Territory.

*Synonym*: *Physa latilabiata* Sowerby, 1873.

## State of taxonomy

See Notes.

## Biology and ecology

Unknown, but probably similar to *I. newcombi*.

## Distribution

This species occurs in the northern parts of the Northern Territory and in the Kimberley region, Western Australia.

## Notes

This genus is in need of revision, as the species concepts we have used have not been rigorously tested and can only be resolved by additional molecular and morphological studies involving dense sampling.

## Further reading

Hubendick, B. (1955). Phylogeny of the Planorbidae. *Transactions of the Zoological Society of London* 28: 453-542.

Smith, B. J. (1992). Non-marine Mollusca. Pp. i-xii, 1-408 in W. W. K. Houston. *Zoological Catalogue of Australia*, 8. Canberra, Australian Government Publishing Service.

Walker, J. C. (1988). Classification of Australian buliniform planorbids (Mollusca: Pulmonata). *Records of the Australian Museum* 40: 61-89.

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