



## ***Carnarvoncochlea exigua* (Ponder & Clark, 1990)**



*Carnarvoncochlea exigua* (adult size 1.2-1.7 mm)



Distribution of *Carnarvoncochlea exigua*.

### **Diagnostic features**

The shell is white, umbilicate and small (maximum length about 1.7 mm), being smaller than *C. carnarvonensis* and has a shorter spire.

The long, slit-like oviduct opening and absence of a bursa copulatrix are important characters distinguishing this species.

### **Classification**

*Carnarvoncochlea exigua* (Ponder & Clark, 1990)

Class Gastropoda

Infraclass Caenogastropoda

Order Littorinida

Suborder Rissoidina

Superfamily Truncatelloidea

Family Tateidae

Genus *Carnarvoncochlea* Ponder, Zhang, Hallan & Shea, 2019.

*Original name:* *Jardinella exigua* Ponder & Clark, 1990. In Ponder, W. F. & Clark, G. A. (1990). A radiation of hydrobiid snails in threatened artesian springs in western Queensland. *Records of the Australian Museum* 42(3): 301-363.

*Type locality:* small seep about 1.2 km northwest of "Dooloogarah" Homestead, south of Carnarvon Gorge National Park, Queensland.

### State of taxonomy

Ponder et al. (2019) recorded variation and indicated that revision of these snails is necessary. Specimens from springs on Carnarvon Station to the north of Carnarvon Gorge are also tentatively assigned to this species.

### Biology and ecology

Lives in hillside springs and seepages near Carnarvon Gorge and in small springs on Carnarvon Station in southwest Queensland.

### Distribution

Springs near "Dooloogarah" Homestead, south of Carnarvon Gorge National Park, Queensland.

Specimens from springs on Carnarvon Station to the north of Carnarvon Gorge are tentatively assigned to this species.

### Further reading

Fensham, R., Ponder, W. & Fairfax, R. (2010). *Recovery plan for the community of native species dependent on natural discharge of groundwater from the Great Artesian Basin. Report to Department of the Environment, Water, Heritage and the Arts, Canberra.* Queensland Department of Environment and Resource Management, Brisbane. <https://www.environment.gov.au/system/files/resources/0cefc83a-3854-4cff-9128-abc719d9f9b3/files/great-artesian-basin-ec.pdf>

Perez, K. E., Ponder, W. F., Colgan, D. J., Clark, S. A. & Lydeard, C. (2005). Molecular phylogeny and biogeography of Spring-associated hydrobiid snails of the Great Artesian Basin, Australia. *Molecular Phylogenetics and Evolution* 34: 545-556.

Ponder, W. F. & Clark, G. A. (1990). A radiation of hydrobiid snails in threatened artesian springs in western Queensland. *Records of the Australian Museum* 42: 301-363.

Ponder, W. F., Zhang, W. -H., Hallan, A., & Shea, M. E. (2019). New taxa of Tateidae (Caenogastropoda, Truncatelloidea) from springs associated with the Great Artesian Basin and Einasleigh Uplands, Queensland, with the description of two related taxa from eastern coastal drainages. *Zootaxa* 4583(1): 1-67.

Ponder, W. F., Zhang, W. -H., Hallan, A., & Shea, M. E. (2019). New taxa of Tateidae (Caenogastropoda, Truncatelloidea) from springs associated with the Great Artesian Basin and Einasleigh Uplands, Queensland, with the description of two related taxa from eastern coastal drainages. *Zootaxa* 4583(1): 1-67.

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To contact the authors for comment or suggestions, please email: [fwmollusc@gmail.com](mailto:fwmollusc@gmail.com)

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