



## ***Taiwanassiminea affinis* (Böttger, 1887)**



*Taiwanassiminea affinis* (adult size 3-4.3 mm)



Distribution of *Taiwanassiminea affinis*.

### **Diagnostic features**

*Taiwanassiminea affinis* commonly occurs sympatrically with *Cryptassiminea* spp. in New South Wales, also banded species, but *T. affinis* is distinguishable from the latter in having a taller spire, strong umbilical ridge and a subsutural spiral cord.

### **Classification**

*Taiwanassiminea affinis* (Böttger, 1887)

Class Gastropoda

Infraclass Caenogastropoda

Order Littorinida

Suborder Rissoidina

Superfamily Truncatelloidea

Family Assimineidae

Subfamily: Assimineinae

Genus *Taiwanassiminea* Kuroda & Habe, 1950

*Original name:* *Assiminea affinis* Böttger, 1887. In Böttger, O. (1887) Aufzählung der zur Gattung *Assiminea* Fleming gehörigen Arten. *Jahrbücher der Deutschen Malakozologischen Gesellschaft* 14, 147–234, pl. 6.

*Type locality:* Rockhampton, Queensland.

*Synonym:* *Assiminea queenslandica* 'Pilsbry' Thiele, 1927 (nom. nud.).

## Biology and ecology

Lives in low salinity conditions in the upper tidal reaches of rivers and large streams. It lives under dead leaves, bark on dead wood and stones or around the bases of plants, including grasses, on muddy banks. It occurs in the upper half of the intertidal zone to the high tidal line or slightly above and can be abundant.

## Distribution

*Taiwanassiminea affinis* is found in the upper tidal reaches of the larger rivers from northern Queensland to the Shoalhaven River in the southern half of New South Wales.

## Notes

Willan and Kessner (2021) record an apparently undescribed species that is somewhat similar to *T. affinis* known from two freshwater creeks flowing into the Daly River, Northern Territory. This is figured by them (their figure 22).

## Further reading

Böttger, O. (1887). Aufzählung der zur Gattung *Assiminea* Fleming gehörigen Arten. *Jahrbücher der Deutschen Malakozologischen Gesellschaft* 14: 147-234.

Cotton, B. C. (1942). Australian Gastropoda of the families Hydrobiidae, Assimineidae and Acmeidae. *Transactions of the Royal Society of South Australia* 66: 124–131.

Fukuda, H. & Ponder, W. F. (2003). Australian freshwater assimineids, with a synopsis of the Recent genus-group taxa of the *Assimineidae* (Mollusca: Caenogastropoda: Rissoidae). *Journal of Natural History* 37: 1977-2032.

Fukuda, H. & Ponder, W. F. (2005). A revision of the Australian taxa previously attributed to *Assiminea buccinoides* (Quoy and Gaimard) and *Assiminea tasmanica* (Tenison Woods) (Mollusca: Gastropoda: Caenogastropoda: Assimineidae). *Invertebrate Systematics* 19: 325-360.

Fukuda, H., Ponder, W. F. & Hallan, A. (2015). Anatomy, relationships and distribution of *Taiwanassiminea affinis* (Böttger) (Caenogastropoda: Assimineidae), with a reassessment of *Cyclotropis* Tapparone-Canefri. *Molluscan Research* 35: 24-36.

Hallan, A. & Fukuda, H. (2015). *Taiwanassiminea phantasma* n. sp.: a terrestrial assimineid (Caenogastropoda: Truncatelloidea) from Middle Osborn Island, Kimberley, Western Australia. *Molluscan Research* 35: 112-122.

Thiele, J. (1927). Über die Schneckenfamilie der Assimineidae. *Zoologische Jahrbücher. Abteilung für Systematik Oekologie und Geographie der Tiere* 53: 113-146.

Willan, E. C. & Kessner, V. (2021). A conspectus of the freshwater molluscs of the Daly River catchment, Northern Territory. *Northern Territory Naturalist* 30: 108-137.

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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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