## Griffithsia grandis Kützing

## Techniques needed and shape









## Classification

\*Descriptive name Features

Occurrences Usual Habitat Special requirements

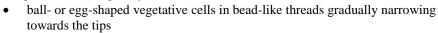


dark red bead alga

plants *dark* red, 80-140mm tall, bead-like, cells visible to the unaided eye, up to *6mm long*, *egg*- or *-ball-shaped*; branches forked several times

West Coast, S Australia to Victoria and around Tasmania often in deep water (30m), on pebbles or other algae

view plants microscopically to find



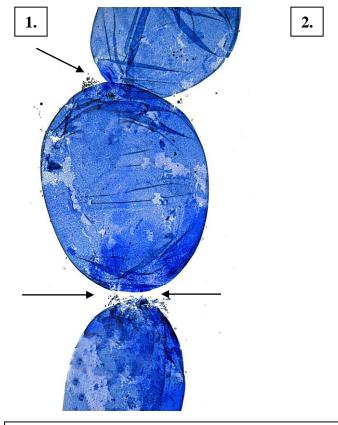
- in female plants: mature female structures (cystocarps) forming bumps on one side in the constriction between vegetative cells, each with a minute disc-shaped cell producing 4-7 two-celled *involucral branches* radiating in a semicircle, consisting of an inconspicuous, small basal cell and large, *swollen*, often *lobed* or apically *notched*, *incurved* apical cell
- in male plants, cloud-like masses of spermatangia produced on minute branchlets in the constrictions of vegetative cells near plant tips, involucral cells *absent*
- in sporangial plants: masses of minute branchlets in the constrictions of vegetative cells near plant tips; some with *sterile* (involucral) cells about *twice the size* of tetrasporangia

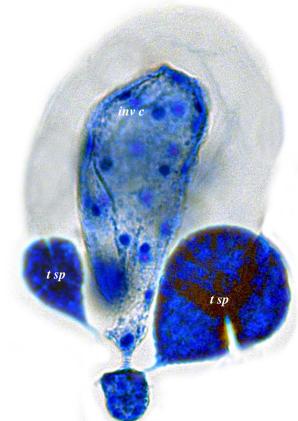
very similar to *Griffithsia monilis* and *Griffithsia ovalis* but generally darker red, with smaller tetrasporangia and fewer and smaller involucral cells.

Similar Species

Diagnosis can be difficult

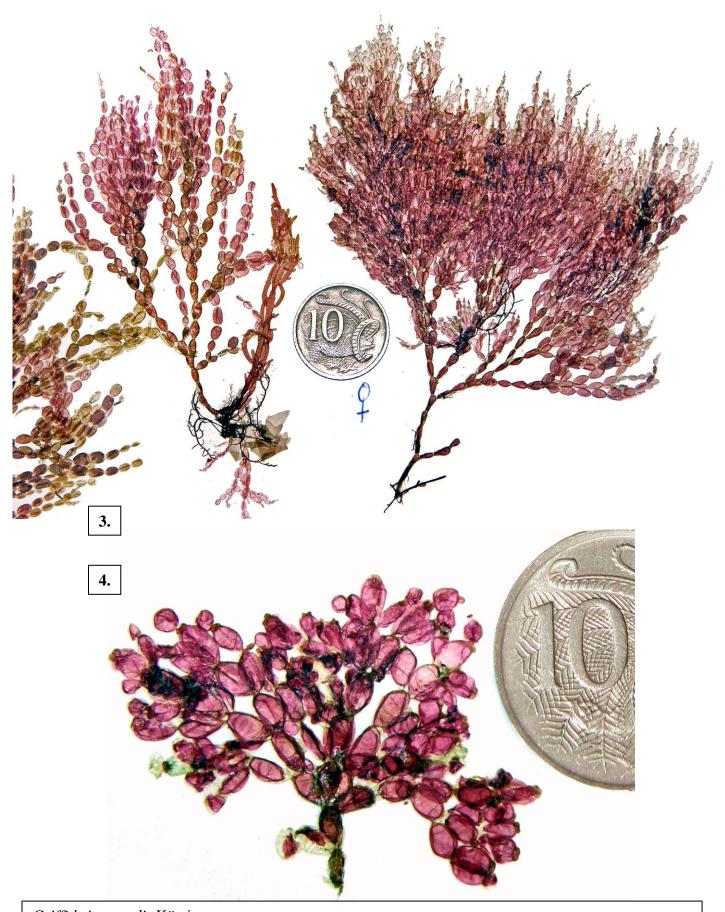
**Description in the Benthic Flora** Part IIIC, pages 327, 330-333 **Details of Anatomy** 





Griffithsia grandis (slide 16713) stained blue and viewed microscopically

- 1. clusters of tetrasporangia (arrowed) on minute branchlets in the constriction between vegetative cells
- 2. detail of tetrasporangial branchlets; sterile (involucral) cell (inv c), a young and a mature tetrasporangium (t sp)



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- from 5-8m deep, Arch Rocks E of Ninepin Point, Tasmania A63928 from 2-3m deep, Godfrey I., Guichen Bay, S Australia A46108