## Techniques needed and shape

Classification

\*Descriptive name Features

Occurrences Usual Habitat Special requirements











Phylum: Rhodophyta; Order: Ceramiales; Family: Ceramiaceae Tribe: Griffithsieae

large, red bead-alga

plants *light* red, 90-260mm tall, branches bead-like, *spreading*, forked *many* times; cells visible to the unaided eye, up to *6mm long*, *egg-* or *-sausage-shaped*, *gradually* becoming smaller towards plant tips

Perth, W Australia to Tasmania, and St Paul I., Indian Ocean

in estuarine conditions, often on seagrass

view plants microscopically to find

- vegetative cells *sausage* or *egg -shaped*, in bead-like threads *gradually* narrowing towards the tips
- in female plants: mature female structures (cystocarps) forming lumps on *one side* of constrictions between vegetative cells. Two types exist:-

type A: involucral cells 7-10, *regular*, incurved, radiating in a semicircle type B: involucral cells 5-6, *irregularly-lobed* or apically *notched*, *incurved* 

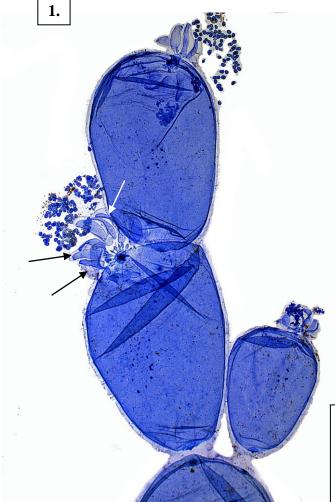
- in male plants, cloud-like masses of spermatangia produced on minute branchlets in the constrictions of cells near plant tips, sterile involucral cells *absent*
- in sporangial plants: tetrasporangia in minute branchlets massed in *constrictions* between ovegetative cells near plant tips; peripheral branchlets with *swollen*, *sterile* cells forming a fence-like wrapping (*involucre*) around the tetrasporangial masses

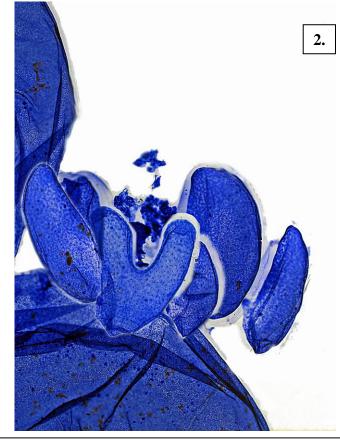
Griffithsia grandis, but unique because of its size, pale colour and estuarine distribution

**Description in the Benthic Flora** Part IIIC, pages 327-330

**Details of Anatomy** 

**Similar Species** 

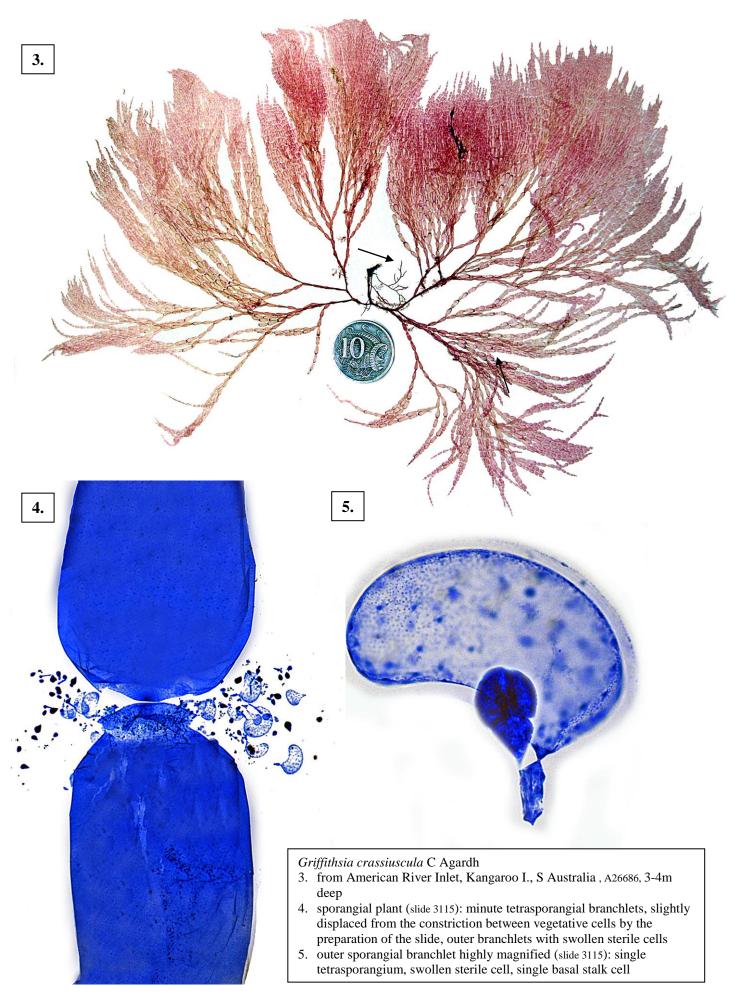




*Griffithsia crassiuscula*: mature female structures (cystocarps) stained blue and viewed microscopically

- 1. type A (slightly squashed by the slide preparation): about 11, regular involucral cells (*arrowed*, viewed from above) (slide 3113)
- 2. type B (at greater magnification, and viewed from the side): 6 swollen involucral cells (*inv c*), one of which is notched at the tip (slide 3114)

<sup>\*</sup> Descriptive names are inventions to aid identification, and are not commonly used "Algae revealed", R N Baldock, State Herbarium S Australia, December 2007; revised July 2014



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