## Naccaria naccarioides (J Agardh) Womersley & Abbott

Techniques needed and shape

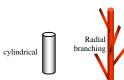
Classification \*Descriptive name Features

Occurrences Usual Habitat Similar Species

## **Description in the Benthic Flora** IIIB, pp 354-356 **Special Requirements** 1. view tips micro







Phylum: Rhodophyta; Order: Bonnemaisoniales; Family: Naccariaceae slimy weed

sexual plants 40-140 mm tall, brown-red, slimy, much branched radially, branches cylindrical, about 1 mm wide, male and female structures found on the same plants.
 spore plants unknown (minute and lying flat in other species)

Coffin Bay SA to Western Port Vic., around Tasmania and N to Coffs Harbour, NSW on rough-water coasts, in shallow water, in summer

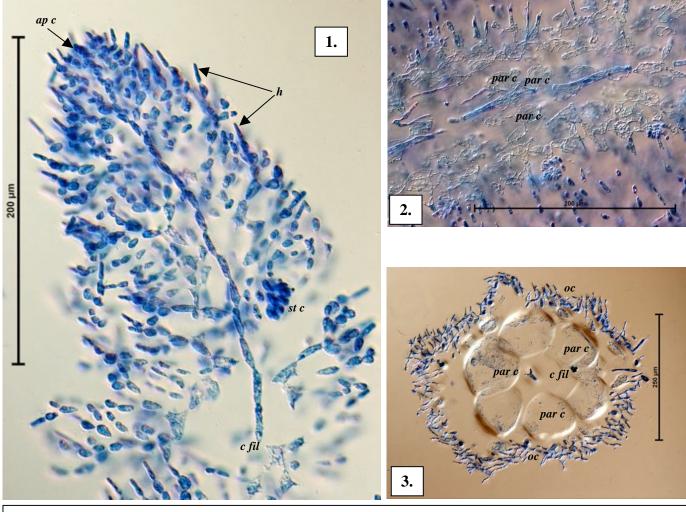
members of the Order: Nemaliales (e.g. *Helminthocladia*, *Helminthora*, *Gloiophloea*), but these do not have the parenchymatous cells near the base and are reproductively different IIIB. pp 354-356

1. view tips microscopically to find:

a central thread produced from a single tip cell dividing at an angle (obliquely) single bunches of branched threads arising from each thread cell, cells pointing outwards and slightly upwards, often ending in finger-like hairs

• occasional dense clusters of cells often found near developing sexual structures cut a cross section near the plant base to view the central thread encircled by large, equal-sided (parenchyma) cells (formed from basal cells of side cell clusters)

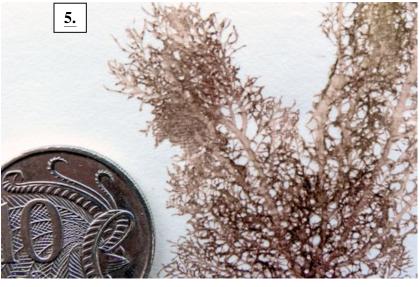
## **Details of Anatomy**

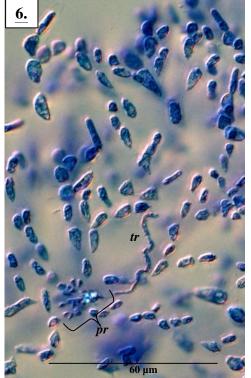


Microscope views of Naccaria naccarioides:

- 1. branch tip: single tip cell (*ap c*), central thread (*c fil*), side clusters of threads, some ending in hairs (*h*), bunch of additional cells (*st c*) (A60806 slide 12042)
- 2. side view further down a branch: parenchyma cells (par c) forming around the central thread
- 3. cross section near the plant base: central thread (c fil), parenchyma cells (par c) outermost cells (o c) (A29942, slide 0700)







4, 5. two magnifications of *Naccaria naccarioides* (J Agardh) Womersley & Abbott A60806 from Gunyah Beach, Coffin Bay Pen.
6. highly magnified young female structure (procarp, *pr*) with a prominent spiral trichogyne (*tr*) (A60806 slide 12042)

\* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed", Robert Baldock, State Herbarium S Australia, November, 2013