Griffithsia pulvinata

Baldock

Techniques needed and shape

Classification

*Descriptive name Features

Occurrences Usual Habitat Special requirements





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

red cushion beads

plants form dense, red, *cushion-shaped*, crowded masses 10-30mm tall on rocks; cells up to *4mm long*, *club-* to *sausage-shaped*, upright, in chains forked once or twice Streaky Bay, S Australia to Port Phillip Heads, Victoria

in the mid to lower intertidal on rock

view plants microscopically to find

- in female plants: bump-like mature female structures (cystocarps) often in the fork between the two *uppermost* vegetative cells and associated with hair-like synchronous branchlets, each cystocarp containing masses of spores (carposporangia), a minute, basal, disc-shaped cell bearing in a semi-circle 9-12 two-celled *involucral branches*, basal cells of which are small, end cells swollen and sometimes apically notched
- in male plants: cloud-like masses of spermatangia in the constrictions between cells near plant tips
- in sporangial plants: tetrasporangia produced in masses of minute branchlets *in the constrictions* between cells near plant tips, peripheral branchlets also producing *sterile* (involucral) cells *equal in size* to the tetrasporangia

Griffithsia monilis with similar sized vegetative cells, but in that species cells are more spherical, branches more open and spreading, involucral cells of outer tetrasporangial branchlets much larger than the sporangia and plants do not form cushion-shaped masses

Description in the Benthic Flora Part IIIC, pages 324-326



* Descriptive names are inventions to aid identification, and are not commonly used "Algae revealed", R N Baldock, State Herbarium S Australia, November 2007; revised August 2014

Similar Species



Griffithsia pulvinata Baldock

- 6. from Horseshoe Bay, Port Elliott, S Australia, A26365a, in the upper intertidal, on granite
- 7-9. preserved, bleached specimens A26365, top-lit and colourised:
 - 7. 8. cystocarps, showing the characteristic position in a fork at the end of a branch; swollen end cells of the involucral branches (*arrowed*) are prominent
 - 9. sporangial plant: masses of tetrasporangia in a ring in the constriction between the apical and next cell of a branch