Betaphycus speciosum

(Sonder) Doty ex P C Silva

(previously Eucheuma speciosa)

Techniques needed and shape



*Descriptive name Features

Occurrences

Usual Habitat Similar Species

Special Requirements









Phylum: Rhodophyta; Order: Gigartinales; Family: Areschougiaceae (Solieriaceae in "Flora Base: flora of Western Australia"

Swan River jelly weed (named for the carrageenan extracted by early settlers)

- 1. plants red-brown becoming almost black; gristly, coarse
- 2. main branches (axes) flat, furrowed on drying, branched irregularly from the edges, sometimes curled at tips. Short side branches numerous, mostly from edges of axes, cylindrical, spine-like, coming to a blunt point, sometimes with spreading forked ends

essentially a sub-tropical species, found in southern Australia at Esperance and near the Perth region, Western Australia, also, as far north as Broome (see

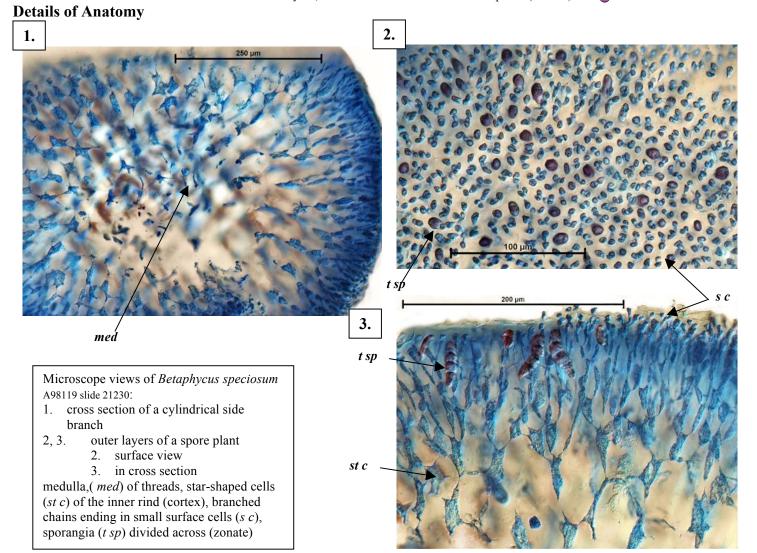
http://florabase.dpaw.wa.gov.au/)

on rock in rough waters

Sarcothalia crassifolia is gristly, with clustered, fringing short branches but tetrasporangia are divided cross-wise (cruciately) and that is a SE Australian species

Description in the Benthic Flora not included in volume IIIA

- 1. cut cross sections of short spine-like branches and view microscopically to find:-
 - a core (medulla) of threads
 - a wide rind (cortex) of *star-shaped* cells extending into loose, forked threads spreading outward and ending in small, *rounded surface cells*
- 2. if possible find spore plants and cut cross sections of the spine-like side branches to view microscopically *scattered*, cigar-shaped tetrasporangia in the outer layers, divided across into a stack of 4 spores (*zonate*)



^{*} Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed", R N Baldock, State Herbarium S Australia, August, 2013





Betaphycus speciosum (Sonder) Doty ex P C Silva A98119: detail of the dense, short, cylindrical, forked side branches at edges of a flat main branch (axis) near its tip