Callithamnion circinnatum Womersley

A SPECIES WITH FEW RECORDS

MACRO

PLANT

Techniques needed and plant shape

Classification

Occurrences

Usual Habitat

Similar Species

*Descriptive name

Features Special requirements



Phylum: Rhodophyta; Order: Ceramiales; Family: Ceramiaceae; Tribe: Callithamnieae dense red tufts

plants dark red-brown, densely tufted, about 120mm tall view microscopically to find:

 main branches (axes) *forked* (dichotomous) of threads of naked (*ecorticate*), *elongate* cells narrowing rapidly over about 8 cells at tips, unique *hooked* (circinnate) short branches on basal branches

fila

- stalkless tetrasporangia, divided tetrahedrally
- carposporophytes, the product of fertilisation, with *paired* masses of sporangia and a wrapping (*involucre*) formed from vegetative branches below the sporangia

from Elliston, N Spencer Gulf, and a tyre reef off Pt Noarlunga S Australia in deep water (10-20m)

Callithamnion confertum, also tufted, but that species has no hooked branches or involucre about the carposporangia

Description in the Benthic Flora Part IIIC, page239-241 **Details of Anatomy**



Callithamnion circinnatum stained blue and viewed microscopically at different magnifications

- 1, 2. A57453 slide 10288
 - 1. LH side: basal parts with short, hooked side branches. RH side: forked apical branches tapering rapidly over about 8 cells
 - 2. detail of basal hooked (circinnate) short branches

3. A46048 slide 5521: stalkless tetrasporangia (t spor) divided tetrahedrally



5.

- 4. *Callithamnion circinnatum* Womersley A57453 showing the densely tufted habit and dark red colour
- 5. specimen stained blue and viewed microscopically to show a carposporangial mass (*ca sp*) with vegetative branches forming a wrapping (involucre, *inv*) basally (A57453 slide 10288)

