Callithamnion pinnatum Womersley

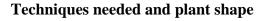
A SPECIES WITH FEW RECORDS

MICRO

PLANT

two-sided red tufts

Phylum: Rhodophyta; Order: Ceramiales; Family: Ceramiaceae; Tribe: Callithamnieae flat-branched



Classification

Occurrences

Usual Habitat

Similar Species

*Descriptive name

Features Special requirements



plants red-brown, to 80mm tall, of tufted threads, side branches in one plane view microscopically to find:

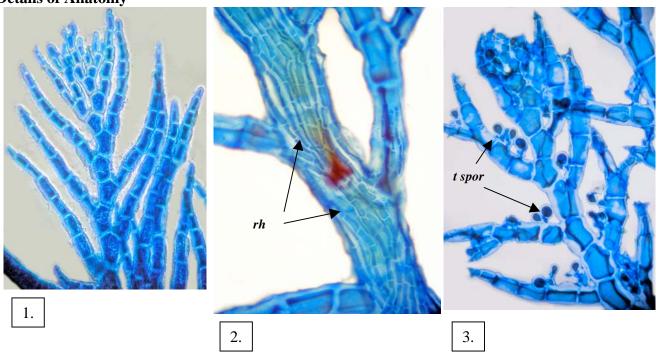
main branches (axes) of box-shaped cells naked (*ecorticate*) near plant tips, clothed (corticated) by thread-like rhizoids lying *in the sheaths* of cells in lower parts, *forked* (dichotomous) in one plane (*alternately pinnate*), ending in a short conical or pointed (spinous) cell

filament

• tetrasporangia, divided tetrahedrally, in small clusters on side branches, single or paired on *short* stalks (pedicels)

Victoria only, at Pt Phillip Heads and Warrnambool (epiphytic) on *Caulerpa brownii* and *Laurencia* in shallow water *Callithamnion obstipum* and *C. violaceum* also have 2-sided branching but these species have no cortication, and tetrasporangia are stalkless

Description in the Benthic Flora Part IIIC, pages 234, 236-237 **Details of Anatomy**



Callithamnion pinnatum, stained blue and viewed microscopically showing

1. 2-sided (alternately pinnate) branching pattern (A22945 slide 15685)

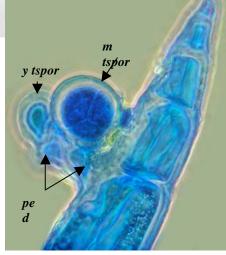
2, 3 A18379 slide 9075

2. clothing (cortication) of thread-like rhizoids (*rh*) lying within the sheath of lower branches 3. single or paired tetrasporangia (*t spor*) in clusters on short stalks (pedicels)

* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, February 2007



5.



- 4. *Callithamnion pinnatum* Womersley, A38053, from Egg I., Nuyts Archipelago, S Australia, 32-38m deep.
- 5. A18379 slide 9075 stained blue and viewed microscopically to show conical apical cell, mature and young tetrasporangia (*m tspor*, *y tspor*) on short stalks (pedicels, *ped*)

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