## **Techniques needed and shape**

Classification

**\*Descriptive name Features** 

**Occurrences Usual Habitat Special requirements** 



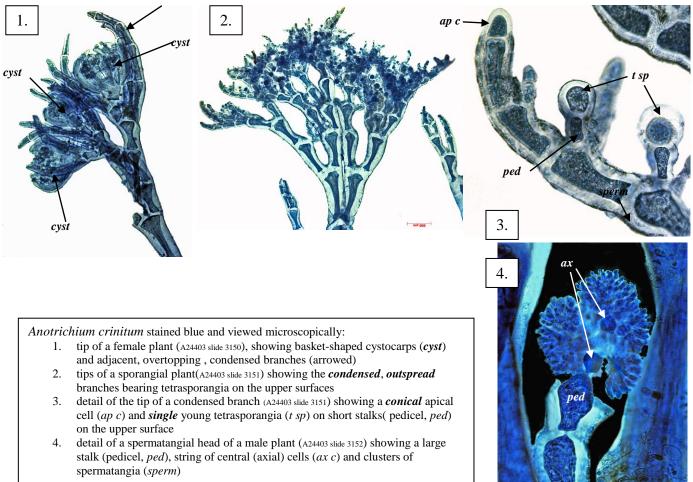
Plants can show

considerable variation

**Similar Species** 

Plants can show iderable variation A. crinitum is easily recognised when fertile. Coarse, sterile plants resemble Griffithsia teges but this has wider cells. Delicate specimens resemble Anotrichium elongatum, but this has elongate apical cells and threads gradually coming to a point

Description in the Benthic Flora Part IIIC, pages 349-352 **Details of Anatomy** 



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

## Phylum: Rhodophyta; Order: Ceramiales; Family: Ceramiaceae;

Tribe: Griffithsieae

red threads with condensed branch ends

plants light to dark red, 50-200mm tall, of threads of cells just visible to the unaided eye, 3.5-5.0 times as long as broad, coarse-textured; fertile plants with forked threads, branch ends condensed and *outspreading* (corymbose); sterile plants *coarser*, branches parallel, often twisted into *thick* wads 10mm thick at the base

from the West Coast, S Australia, to Tasmania and S NSW; S Islands of New Zealand

in lower intertidal pools to 17m deep, attached by rhizoids to rock

view microscopically to find:

- branches coming *rapidly* to a point; apical cells *short, conical*; downward growing rhizoids, usually near the plant base, interlacing main branches to form ropey strands or thick wads
- in sporangial plants: tetrasporangia on very short stalks (pedicels), single on outer sides of condensed branch tips that spread outwards
- in female plants: basket-shaped mature female structures (cystocarps) of single swollen basal cells bearing rings (involucres) of 4-6 incurved cells, near the ends of branches; adjacent, condensed branch ends may overtop them
- in male plants head-shaped masses of minute spermatangia on club-shaped stalks (pedicels) near condensed branch ends



Anotrichium crinitum (Kützing) Baldock,

- 5. from 15m deep, 1300m off Cape Northumberland, SE S Australia (A55219): condensed outspread branches just visible at the tips of threads (some arrowed); twisted threads at the base
- 6. specimen stained blue and viewed microscopically (slide 3151): detail of the outstretched, condensed branches at tips that bear tetrasporangia (similar to those indicated by the arrow)