Cirrulicarpus polycoeliodes (J Agardh) Womersley

Techniques needed and shape

Classification *Descriptive name Features

Occurrences Usual Habitat Special requirements



Similar Species

may be a Kallymenia sp



45.320

Phylum: Rhodophyta; Order: Gigartinales; Family: Kallymeniaceae soft flat red blades

1. plants are dark red, *soft* in texture, to 120mm tall, and *flat-bladed*

2. branches are about 15mm wide, and *forked*

apparently restricted to SE Tasmania

from shallow to deep water (23m) on rough water coasts

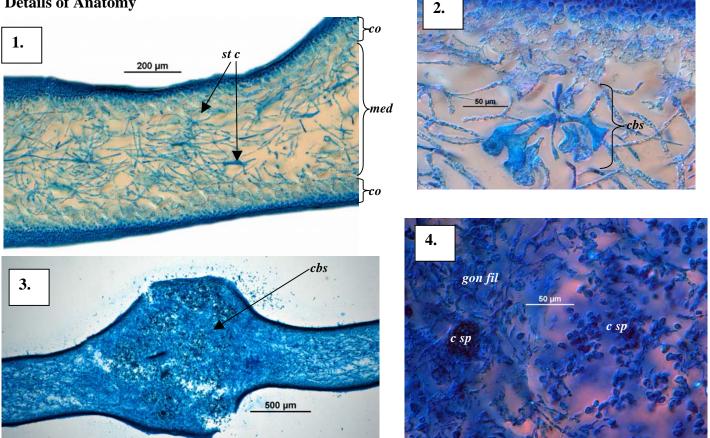
1. make squashes of tissue of different plants under the microscope to see

- a network of branching threads in a broad and loosely-packed core (medulla) with some darkly staining spidery (*stellate*) cells
- outermost (cortex) parts of 5-7 layers of small, *tightly-packed* cells
- young, female structures (carpogonial branch systems, *cbs*) consisting *lobed* cells with dense contents found in inner parts of the cortex
- 2. if possible, cut a cross section through the mature female structures (cystocarps) containing *patches* of carposporangia *separated* by threads

Kallymenia species; all have a soft texture, but *C. polycoelioides* is more forked. Since tetrasporangia needed to separate the two genera have not been found the position of this species needs confirmation.

Description in the Benthic Flora Part IIIA, pages 2412-244 **Details of Anatomy**

Diagnosis can be difficult



Cirrulicarpus polycoelioidess stained blue and viewed microscopically

- 1. a cross section showing a wide core of loose threads (medulla, *med*) with spidery stellate cells (*st c*) and outer layers (cortex, *co*) of rows of small cells (A41925 slide 4303)
- 2. cross section of a part of the cortex showing a developing female structure (carpogonial branch systems, *cbs*) of lobed cells (A41925 slide 4304)

3. a cross section of a mature female structure (cystocarp, cyst) producing a swelling in a blade (A 64455 slide 15416)

4. detail of a cystocarp with patches of carposporangia (c sp) in packets between threads (gonimoblast threads, gon fil) (A64455 slide 15416)

