Coeloclonium debile (Harvey) Gordon-Mills & Womersley

A SPECIES WITH FEW RECORDS

45.940.77

tubular

trich



Classification

*Descriptive name

Features

Special requirements



Phylum: Rhodophyta; Order: Ceramiales; Family: Rhodomelaceae Tribe: Chondrieae

pinched red tubes

plants small, red-brown, slender, 20-40mm tall, irregularly branched with short side-branches *pinched* at their bases

1. view plants microscopically to find the *blunt* tips with tufts of branched filaments (trichoblasts) emerging from pits

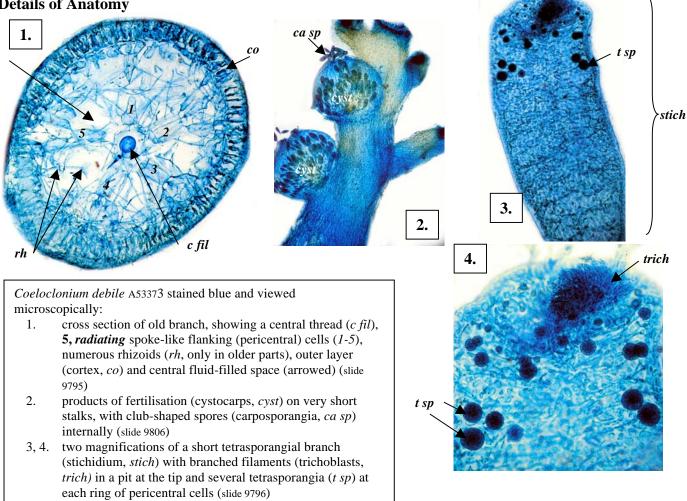
2. cut a cross section of a main branch to view microscopically a central thread, 5 flanking (pericentral)cells *radiating* from the central filament and branching *tree-like* at their tips, numerous fine threads or rhizoids in older branches in the space between central filament and pericentral cells and an outer (cortical) layer 1-2 cells thick, cells in long lines in surface view

- 3. find tetrasporangial branches ("stichidia"), narrow at their bases, blunt with a pit at tips
- 4. find *ball-shaped* cystocarps the results of fertilisation with a *swollen* base and practically no stalk, *narrow* opening (ostiole) at the tip, producing club-shaped carposporangia internally

King George Sound, W Australia; Sceale Bay and Tiparra Reef, S. Australia on seagrass (Posidonia) and the brown alga Dilophus

Coeloclonium umbellatum, and C. verticillatum but plants of C. debile are generally smaller with fewer, irregular (not ringed) branches

Part IIID, pages 412. 413, 415

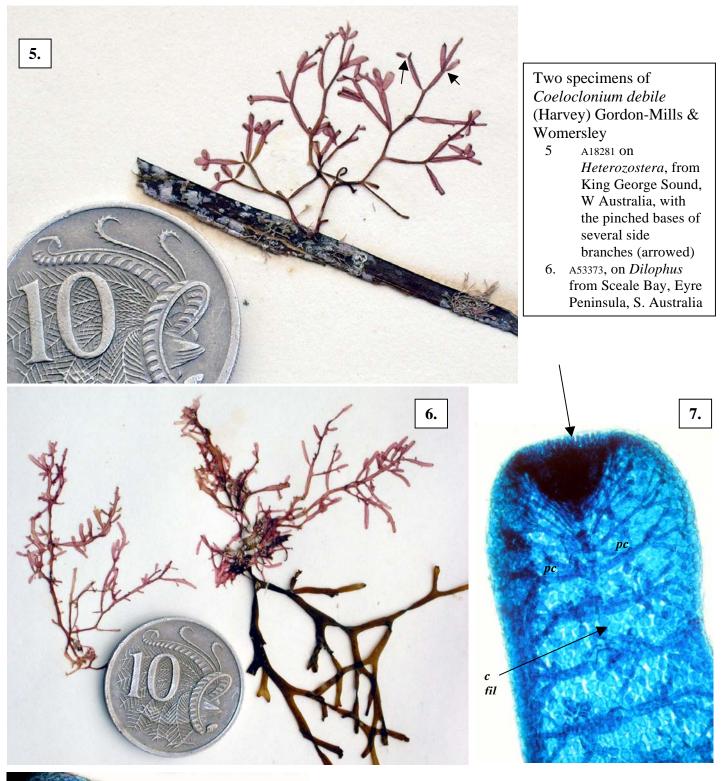


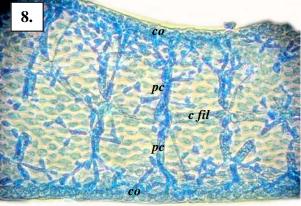
* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, April 2007

Occurrences **Usual Habitat Similar Species**

Description in the Benthic Flora

Details of Anatomy





- 7, 8. *Coeloclonium debile* A53373 stained blue and viewed microscopically
 - 7. tip of a short side branch, showing the growing point in a depression (arrowed) and elongate flanking (pericentral) cells (*pc*) radiating outwards from the central thread (*c fil*) (slide 9799)
 - 8. lengthwise slice through a branch showing the central filament, radiating pericentral (pc) cells ending in forked branches of small cells and outer layer (cortex, *co*) of rounded cells