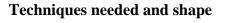
Erythroclonium sonderi Harvey



Classification

*Descriptive name

Usual Habitat

Similar Species

Features

Occurrences Special requirements



Phylum: Rhodophyta; Order: Gigartinales; Family: Areschougiaceae sausage strings. [§]Sonder's bubbleweed

- 1. plants are red, 100-150mm tall, *much-branched* with branches pinched into sausage-shaped *segments*, 6-10mm long
- 2. lower parts are thickened and *cylindrical* although the position of the original pinched parts may still be visible

Dongara, W Australia to S Australia and N coast of Tasmania

- slice the outer layer of one segment lengthwise forming a window to find:
 the single, prominent central thread each cell of which produces 2 radiating
 - *much-branched* threads crossing a central space
 - very thin rhizoids *twisted* in a spiral about the central thread
 a "skin" (cortex) layer of *small*, equal-sided cells
- 2. cut a cross section of a mature main branch and view microscopically to find
 - the central thread is still *prominent*
 - the core (medulla) is now filled with *rhizoids*
 - the cortex is *wide* and consists of cells in *files* of up to 12 cells

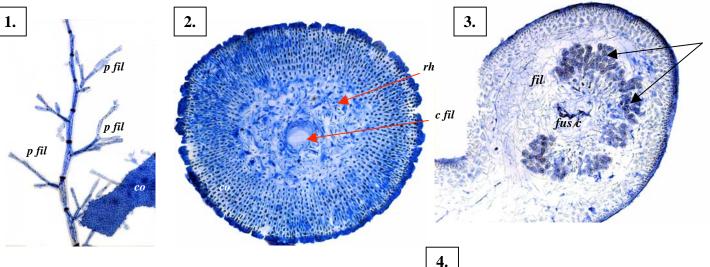
3. if possible, cut a cross section through the light swellings in the segments of a female plant to find the cystocarps *embedded* in the core, with a loose wrapping of *threads* and prominent *fusion cel* with short *chains* of spores

- 4. if possible, find sporangial plants and cut a cross section of a segment to find eggshaped tetrasporangia, divided across (*zonately*) in the outer cell layer of the cortex but *protruding* markedly into the medulla
 - *(male plants are unknown)

from shallow to deep water (3-40m)

Rhabdonia clavigera. In *Rhabdonia* the central filament is narrow and quickly obscured by a wrapping of similar-sized threads, and female reproductive features differ

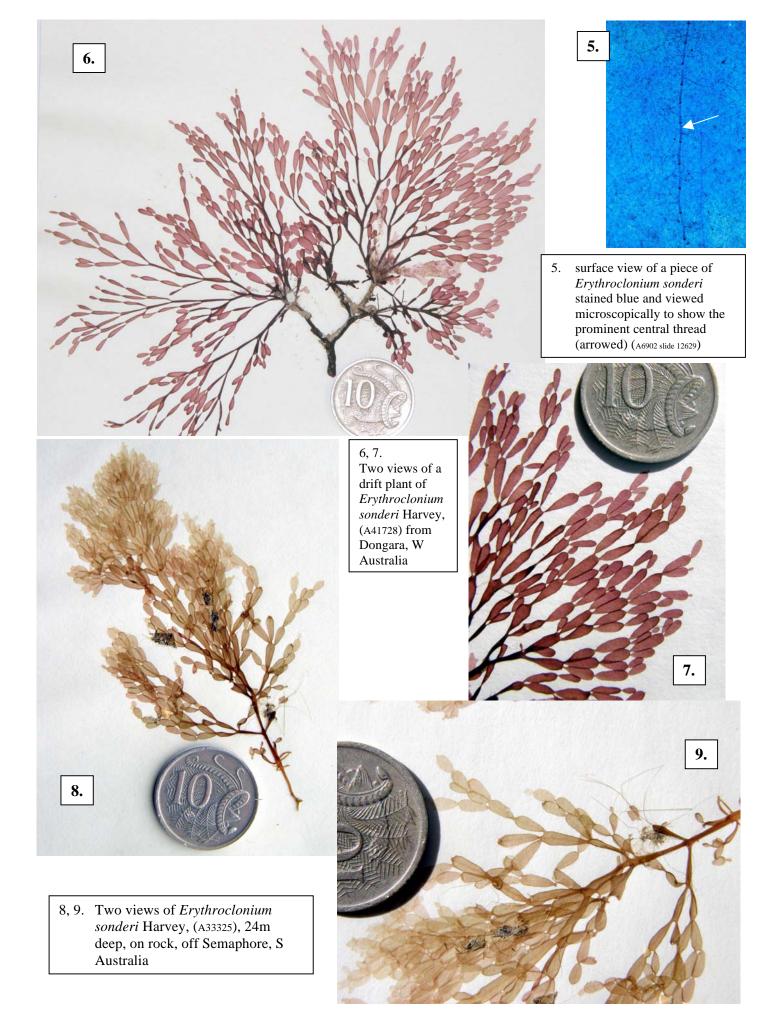
Description in the Benthic Flora Part IIIA, pages 352, 355-356 **Details of Anatomy**



Erythroclonium sonderi (A6902) stained blue and viewed microscopically

- 1. a central thread dissected from a segment showing branches (periaxial filaments, *p fil*) arising at right angles, and surface view of
- a piece of "skin" (cortex, *co*) (A6902 slide 12629)
 2. a cross section of a mature and thickened segment with central thread still prominent, the core filled with rhizoids (*rh*) and a thickened cortex (*co*) with cells in files (arrowed) (slide 12629)
- 3. a cross section of a cystocarp with fusion cell (*fus c*), chains of carposporangia (*ca sp*) and loose wrapping of threads (*fil*) in the medulla (A52489 slide 12632)
- 4. cross section of a fragment of the cortex (*co*) with a tetrasporangium (*t sp*) protruding prominently into the space of the medulla (A6902 slide 12633)

Descriptive names are inventions to aid identification, and are not commonly used ^{§§}Name used by Edgar, G (2008) in Australian Marine Life (2nd ed.). "Algae Revealed" R N Baldock, S Australian State Herbarium, March 2008



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