A SPECIES WITH FEW RECORDS

red straps

Techniques needed and plant shape



Phylum: Rhodophyta; Order: Rhodymeniales; Family: Rhodymeniaceae

Classification

*Descriptive name

Features



plants dark red, 200-500mm tall, slightly gelatinous when fresh, blades narrow, irregularly flat-branched, mature female plants with small, dark, round ball-shaped cystocarps *protruding* on the edges and surface of blades.

Special requirements



shaped cystocarps *protruding* on the edges and surface of blades.

cut cross sections, including through a cystocarp and view microscopically to

- outer layer (cortex) of *unbranched chains* of small cells facing outwards, core (medulla) of large, *thick-walled* cells and 2-3layers of
 - small threads (*rhizoidal filaments*) circling large medulla cells
 ball-shaped cystocarps each with basal nutritive tissue, masses of spores, inner layer of chains of cells and small opening (ostiole),

only known from the original 1850's collection at Pt Phillip Heads, Victoria, and drift specimens from Pt MacDonnell, S. Australia

possibly a deep water species

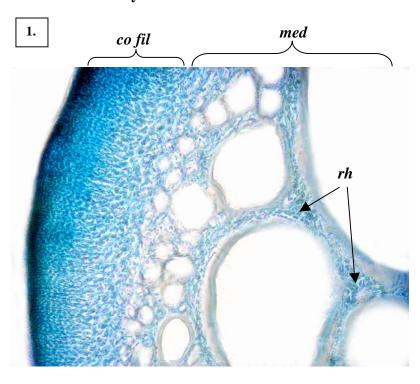
flat-bladed *Rhodymenia* spp, but these are gristly in texture, and although their large medullary cells may be mixed with smaller ones they are *not* ringed with rhizoidal threads as in *Faucheopsis*.

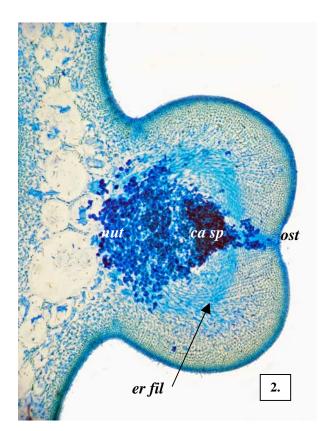
Occurrences

Usual Habitat Similar Species

Description in the Benthic Flora Part IIIB, pages 118-119

Details of Anatomy





Cross sections of Faucheopsis coronata A61466 stained blue and viewed microscopically at different magnifications:

- 1. outer layer of unbranched chains of small cells (cortical filaments, *co fil*), core of large, thick-walled cells (medulla, *med*) ringed with 2-3 layers of fine threads (rhizoids, *rh* (slide 14145)
- 2. cystocarp showing basal nutritive tissue (*nut*), masses of spores (carposporangia, *ca sp*), inner chains of cells (erect filaments, *er fil*) and single opening (ostiole, *ost*) (slide 14144)

^{*} Descriptive names are inventions to aid identification, and are not commonly used

[&]quot;Algae Revealed" R N Baldock, S Australian State Herbarium, January 2006



3. Faucheopsis coronata (Harvey) Kylin, A61466, cast up at Pt MacDonnell, S. Australia, with dark red cystocarps on the surface and edges of fronds

 $^{^{\}ast}$ Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, January 2006