Craspedocarpus blepharicarpus (Harvey) Min-Thein & Womersley

Techniques needed and shape

Classification *Descriptive name Features



Occurrences **Usual Habitat**

Similar Species

Description in the Benthic Flora Part IIIA, pages 420-423 **Special Requirements**





Phylum: Rhodophyta; Order: Gigartinales; Family: Cystocloniaceae finely fringed blades

plants red, fading to yellow brown, 50-100 mm tall, of soft, thin and flat-branched blades 4-7mm broad, regular in width, forked or laterally branched; fringed with tiny, cylindrical, proliferations about *1mm long*

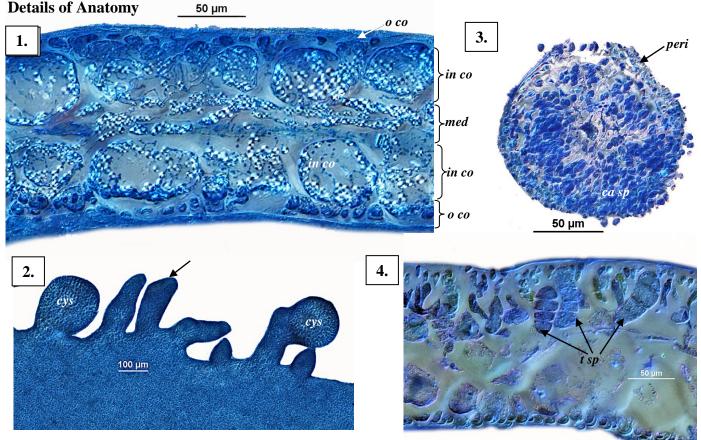
Geraldton, W Australia to Victoria and Bass Strait

a moderately deep water species (28m) in slight to moderate water movement, often on seagrass (Amphibolis) stems

members of the Delesseriaceae ("filmy reds"), but differing in the presence of cell rings (rosettes) in surface view. Differing in female reproductive features from Rhodophyllis

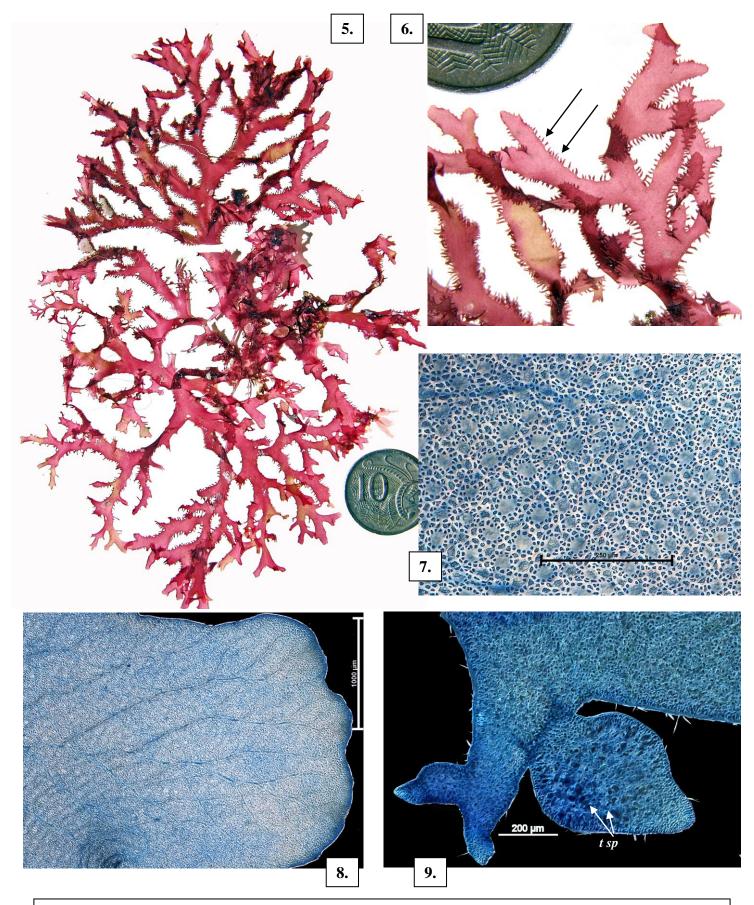
view microscopically to find

- 1. in surface view: *rounded* blade tips, *faint veins*, flat-branched (pinnate) (best seen when stained blue), small cells ringing larger ones (*rosettes*)
- 2. in cross sections: a vague core (medulla, *med*) of a few, obscure threads; wide layers (cortex, *co*) of *large* spherical cells; *ringed* with smaller ones (forming the rosettes), bright gland cells absent
- 3. in cross sections of spherical swellings in the fringing proliferations of female plants: central masses of cells (gonimoblast), chains of sporangia (carposporangia, ca sp), cellular wall (pericarp, peri) but no opening (ostiole)
- 4. in sporangial plants: *large*, tetrasporangia, *scattered* in the cortex of fringing proliferations, divided across into four sporangia (zonate)



Craspedocarpus blepharicarpus stained blue and viewed microscopically

- 1. blade cross section: several threads in the core (medulla, *med*), layers of inner large cells (inner cortex, *in co*) ringed by outer small cells (outer cortex, o co) (slide 19117)
- 2 surface view of fringing proliferations bearing female structures (cystocarps, cys) (slide 13165)
- cystocarp extracted from a fringing proliferation: chains of carposporangia (ca sp), cellular wall (pericarp, peri) (slide 19118) 3.
- cross section through a fringing proliferation bearing tetrasporangia (t sp) divided across (zonate) (slide 17580)



- 5, 6. *Craspedocarpus blepharicarpus* (Harvey) Min-Thein & Womersley from W Australia, (A18175): magnification of regular, fine, fringing outgrowths (arrowed)
- 7-9. surface microscope views of specimens stained blue
 - 7. pattern of small cells characteristically ringing larger ones (rosettes) (slide 19116)
 - 8. frond tip: branching veins (slide 17579)
 - 9. fringing proliferations, one bearing scattered tetrasporangia (t sp) (slide 13158)