Craspedocarpus venosus (Kützing) Min-Thein & Womersley

Techniques needed and shape

Classification *Descriptive name **Features**

Occurrences **Usual Habitat**

Similar Species

Description in the Benthic FloraPart IIIA, pages 422-425

Special Requirements

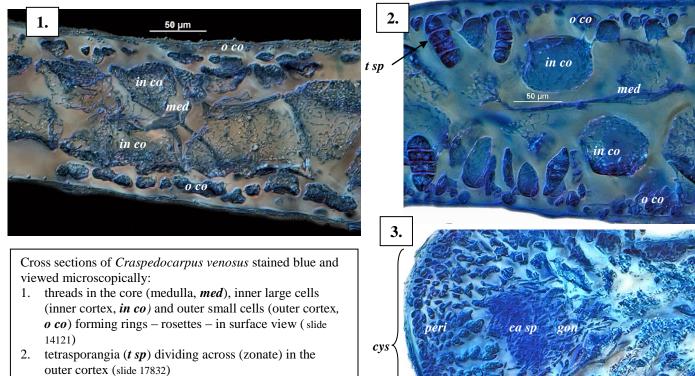
view microscopically to find

- blades in surface view: single apical cells in pits or notches; central, flat-branched 1. (pinnate) *veins* (best seen when stained blue); *rosettes* – small cells ringing larger ones, rosettes later completely covered by small cells in old branches in cross sections of blades: an obscure core (medulla, med) of several loose threads, 2.



- wide outer (cortex) layers of inner *large* spherical cells ringed with smaller, outer ones seen as 2-3 concentric rings or rosettes in surface view; bright gland cells absent in cross sections of spherical swellings (cystocarps) protruding from the edges of
- 3. fronds of female plants: central masses of cells (gonimoblast, go), chains of sporangia spreading outwards, a distinct wall of cells (pericarp, peri) but no opening (ostiole)
- in sporangial plants: *large*, tetrasporangia (t sp) scattered in the cortex of fringing Δ proliferations, divided across into four spores (zonate)

Details of Anatomy



3. mature female structure (cystocarp, cys) fringing a frond: cellular wall (pericarp, peri), central mass of cells (gonimoblast, gon), chains of carposporangia (ca **sp**) (slide 4820)

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Phylum: Rhodophyta; Order: Gigartinales; Family: Cystocloniaceae small filmy forked blades

plants red or fading to red brown, 50-150mm tall, soft, thin and flat-branched, blades 2-5 mm broad, *forked* sometimes narrower at the branch bases; fringing proliferations *absent* except for females with tiny, ball-shaped cystocarps

Fremantle, W Australia to Victoria and Flinders I., Bass Strait

a moderately deep water species (4-19m) 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



Craspedocarpus venosus (Kützing) Min-Thein & Womersley from S Australia

- 4. drift specimens from Vivonne Bay, Kangaroo I., (A68420)
- 5. from 20m deep, Toad head, West I., Victor Harbor (A31576) with fringing cystocarps (arrowed)
- 6-8. microscope surface views stained blue:
 - 6. frond tip with apical notch, flatbranched central vein, cell rosettes (slide 13171)
 - 8. sporangial plant: branches with scattered tetrasporangia (slide 5204)
 - female plant: protruding cystocarps (*cys*) on frond edges (slide 5203)

