Chondria lanceolata Harvey

Techniques needed and plant shape

Classification

Occurrences

Usual Habitat

Similar Species

Details of Anatomy

*Descriptive name Features

Special requirements







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

lance-tip Chondria

plants small, red-brown, *densely* branched, *upper* branches *cylindrical* or tubular, *pointed* at tips, *lower* branches flattened (*compressed*) view plants microscopically to find:

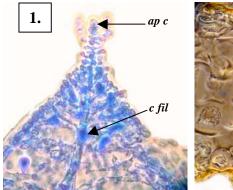
• a *thread* of 8-10 cells with a *dome-shaped* apical cell extending *beyond* pointed tips, and *lens-*or *ring-shaped* cell thickenings of flanking (pericentral) cells, just visible through the surface (cortex) cells

• cut a cross section of a main branch to view microscopically the central filament, surrounded by 5 flanking (pericentral)cells, *merging* into outer (cortical) layers of 2-3 cells dorsally and ventrally, and 10-15 cells laterally

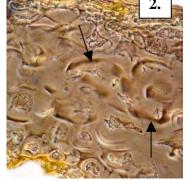
- swollen tetrasporangial branches ("stichidia"), narrow at their bases, ending in a tuft of branched threads (trichoblasts)
- egg-shaped cystocarps the results of fertilisation, with a short stalk, the branch often *extending* for a short distance past it, open at the tips and producing club-shaped carposporangia within

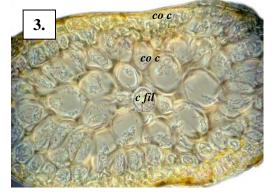
Houtman Abroholos to Point Peron W. Australia. In S. A. only at Scott Bay on seagrass (*Posidonia*), or in shallow pools at the reef edge *Chondria foliifera* also with pointed branch endings, but branches are wider and well-compressed throughout

Part IIID, pages 446-448



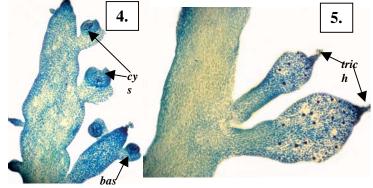
Description in the Benthic Flora



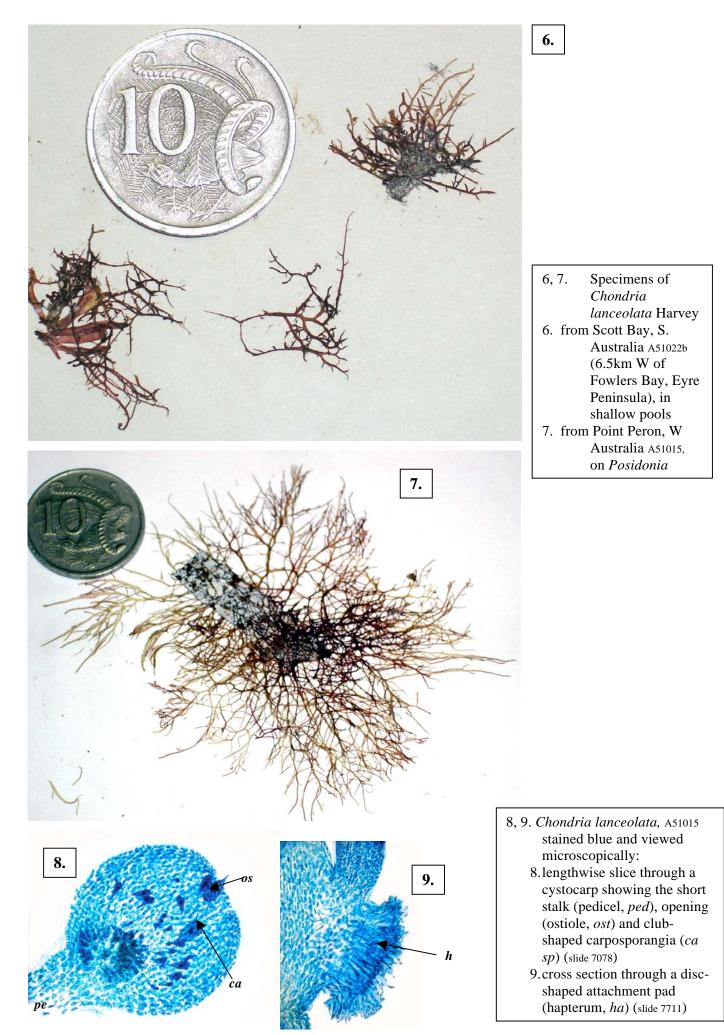


Chondria lanceolata A51015 stained blue and viewed microscopically

- 1. dome-shaped apical cell (*ap* c) and prominent central thread (central filament, *c fil*) extending beyond the tip of a branch (slide 7071)
- 2. lengthwise section showing semicircular thickenings in flanking (pericentral) cells (some arrowed) (slide 7074)
- cross section of a lower, flattened (compressed) branch showing the central filament (*c fil*), flanking pericentral cells obscured by intermingling inner cortical cells, and outer cortical cells (*co c*) (slide 7074)
- 4. lengthwise view showing cystocarps (*cys*) with basal extension of the branch (*bas ext*) (slide 7078)
- 5. lengthwise slice through tetrasporangial branches (stichidia) with apical tuft of trichoblasts (*trich*) (slide 7075)



ext



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