Techniques needed and shape

Classification *Descriptive name **Features**















Phylum: Rhodophyta; Order: Gigartinales; Family: Phyllophoraceae

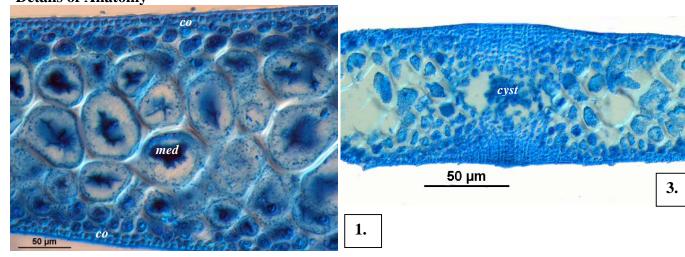
- 1. red-brown, fading to grey when dry, 50-200mm high tall
- 2. branches are *flat*, thin, *narrow*, *flat-branched*, *forked*
- 3. female structures form a centre line of darker fertile structures on fronds from N Spencer Gulf, S Australia to Victoria generally in deep water on rock
- 1. cut a cross section to find large, closely packed, equal-sided (parenchymatous) cells in the core (medulla) and outer (cortex) layers of several rows of small cells facing
- 2. if possible, find sporangial plants with scattered, raised "blisters". Cut a cross section to find *chains* of tetrasporangia, divided in a cross (*cruciate*) pattern when mature, lying in
- 3. cut a cross section through the mid-line of female plants to find *embedded* mature structures (cystocarps)

Stenogramme interrupta, but that species has broader fronds at least twice the width. Superficially like some *Rhodymenia* species, but the core cells are smaller and/or more loosely arranged in that genus

Description in the Benthic Flora Part IIIA, pages 262, 264

Details of Anatomy

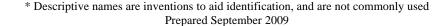
Similar Species





Cross section of Stenogramme letophylla stained blue and viewed microscopically

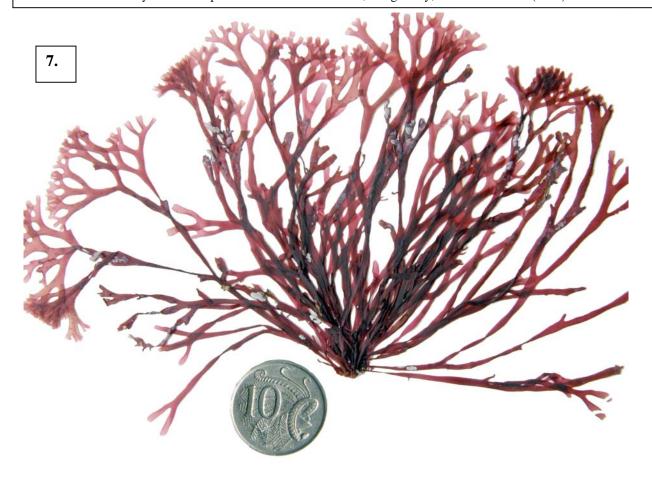
- cross section showing large cells of the core (medulla, med) and outer layers (cortex, co) of small cells (A63242 slide 13988)
- a cross section through sporangial "blisters" (nemathecia) on both sides of a frond showing chains of young tetrasporangia (t sp chn) in rows, not yet divided in a cross pattern (A51051 slide 6174)
- a cross section of post-fertilisation female structure (cystocarp, cyst) embedded in the frond mid-line (A63242 slide 13988)





Specimens of Stenogramme leptophylla J Agardh

- 4. from Port Phillip, Victoria, 15m deep (A22800) with linear, regular forked blades
- 5. dredged from 36m deep, 12nautical miles SE of Granite I., S Australia(A59696) showing detail of linear fronds
- 6. a more closely-branched specimen from shallow water, Long Gully, SE of S Australia(A63242)



* Descriptive names are inventions to aid identification, and are not commonly used Prepared September 2009