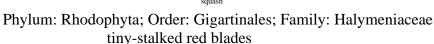
foliose

Womersley & Lewis

Techniques needed and shape

Classification
*Descriptive name
Features

Occurrences Usual Habitat Similar Species



- 1. plants are dark red, consisting of a conspicuous *single, oval, slimy* blade 300-400mm tall
- 2. blades are attached by *a tiny disk and stalk* about 10mm long rapidly expanding into the blade from Nora Creina, S Australia to Warrnambool, Victoria

MACRO

PLANT

most specimens are from drift material; found in 5m of water on rock at Nora Creina *Aeodes nitidissima* but that species has conspicuous wrappings about the female structures

Description in the Benthic Flora Part IIIA, pages 202-205



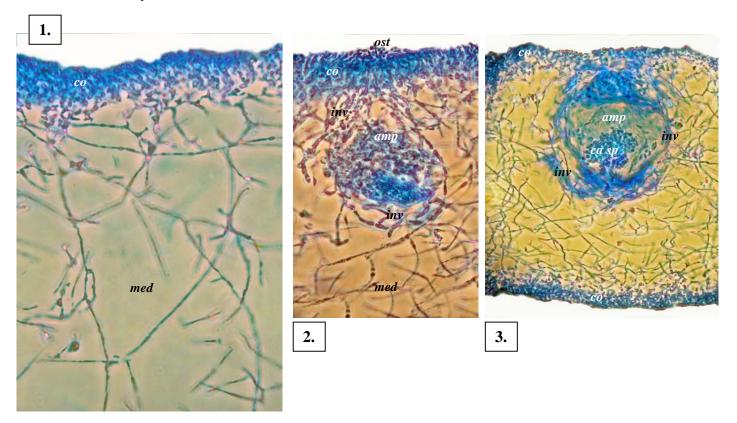




squash

- 1. focus microscopically on a squash of surface cells to see the thin outer layer (cortex) of chains of *small* cells and inner layer (core or medulla) of *sparse*, thin threads
- 2. if possible, cut cross sections of blades and view microscopically:-
 - a wide core (medulla) of *sparse*, branched threads but *no* spidery cells (ganglionic cells found in other genera of the Family)
 - *thin* outermost layers of *forked* chains each of up to 6, *equal-sided* to slightly elongate, closely packed *small cells*
- 3. if possible find female plants, cut cross sections (or make squashes) and view microscopically the flask-shaped structures (*ampullae*) protruding into the blade core from the cortex, finally with a *prominent envelope* (involucre) of threads, with *inconspicuous* opening (ostiole) to the surface

Details of Anatomy



Cross sections of Grateloupia ovata stained blue and viewed with phase microscopy at different magnifications, showing:

- 1. a view of half of a section with sparse threads of the wide core (medulla, *med*) and narrow outer layer (cortex, co) of forked chains of small cells (A24382 slide 12009)
- 2, 3. flask-shaped female structures (ampullae, *amp*) with envelopes (involucre, *inv*) of threads, developing sporangia (carposporophyte, *ca* sp) inside and inconspicuous opening (ostiole, *ost*) (#2:A37821 slide 11751; #3: A21216 slide 12083)

^{*} Descriptive names are inventions to aid identification, and are not commonly used Prepared August 2008



Various views of a drift specimen of *Grateloupia ovata* Womersley & Lewis, A22973 from Wrights Bay (Guichen Bay) S Australia, showing:

 $[\]ensuremath{^{*}}$ Descriptive names are inventions to aid identification, and are not commonly used Prepared August 2008