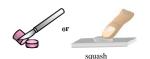
Techniques needed and shape







Classification *Descriptive name **Features**

Occurrences

Usual Habitat

Phylum: Rhodophyta; Order: Gigartinales; Family: Halymeniaceae red lettuce; §Kraft's red alga

plants are red, fading to yellow, with a thin, slippery, ruffled, split or lobed lettuce-like blade 100-250mm tall arising from a small stalk (stipe) about 10mm long

SE Tasmania and Jervis Bay NSW.

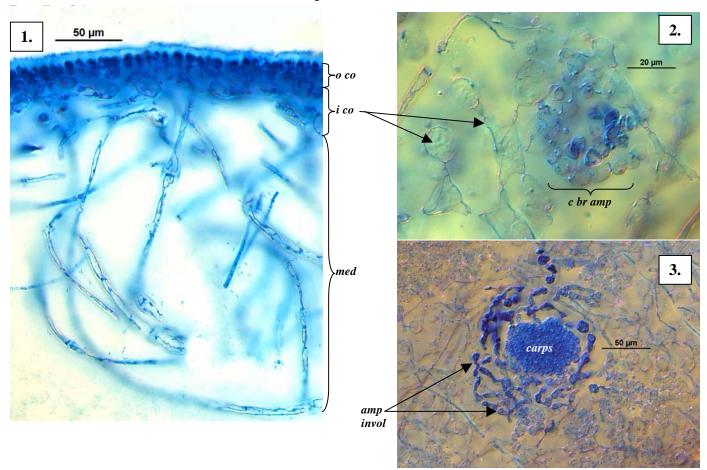
on rock or shells in relatively deep water (10m)

Similar Species Halymenia plana but the blade of that species is thicker and mottled

Description in the Benthic Flora Part IIIA, pages 190, 192-193

Special Requirements

- 1. view the surface microscopically or make a tissue squash to find
 - no mottling as in other species of Halymenia
 - numerous small spots (ampullae) in females
 - scattered, tiny cross-shaped (cruciate) tetrasporangia in sporangial plants
- 2. a cross section or tissue squash of a blade shows:
 - a core (medulla) of *loosely packed* threads mostly running across the blade but absence of bright, amoeba-like (ganglionic) cells found in other Halymenia species
 - outer (cortex) layers of inner, larger cells becoming star-shaped and smaller, elongate cells facing outwards



Cross sections of Halymenia kraftii stained blue and viewed by interference microscopy to contrast cell details:

- a cross section showing the core (medulla, med) of threads, outer layers (cortex) of inner larger cells becoming star-shaped (inner cortex, *i.co*) and outer narrow cells facing outwards (outer cortex, *o co*) (A61374 slide 12339)
- 2. tissue squash looking down on a bottle-shaped pit of an early female reproductive stage (carpogonial branch ampulla, c br amp) (A41636
- tissue squash looking down on a post-fertilisation stage with central mass of developing spores (carposporophyte, carps) and loose 3. surrounding threads (ampullary involucre, amp invol) (A41636 slide 12865)

