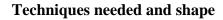
Kallymenia cribrosa

Harvey



Classification *Descriptive name Features

Occurrences Usual Habitat Special requirements



Similar Species

A MACRO PLANT squash foliose

Phylum: Rhodophyta; Order: Gigartinales; Family: Kallymeniaceae shot-hole weed; ^spitted red lettuce

1. plants are rose red, 100-300mm tall, usually with a *single* broad but thin blade perforated by a *mix* of small and large holes (to 5mm across)

2. blades are gelatinous, firm when fresh but rapidly *disintegrate*

central coast of W Australia to Victoria and around Tasmania

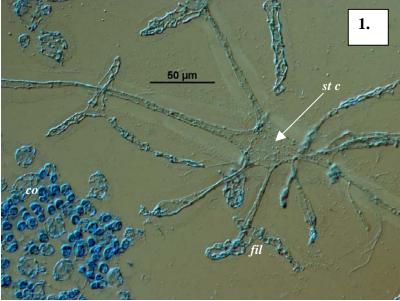
from shallow to deep water (40m) on moderate to rough water coasts

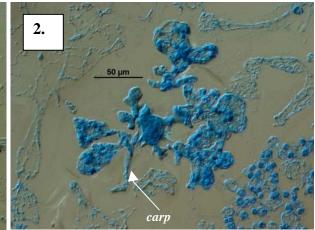
make squashes of tissue of different plants under the microscope to see

- *thread like* cells developing from the pointed ends of star-shaped (*stellate*) cells with very thin contents located in the core or medulla
- *small*, round cells in several layers of the outermost parts (cortex)
- numerous, young, amoeba-like female structures (carpogonial branch systems, *cbs*) in the cortex with dense contents with a *single* thread (carpogonium and trichogyne)
- scattered tetrasporangia divided in a cross (cruciate) pattern

Kallymenia cribrogloea, that has a *mix* of large and small holes in the centre but only small holes at the *edge* of blade and *many* carpogonia in each cbs

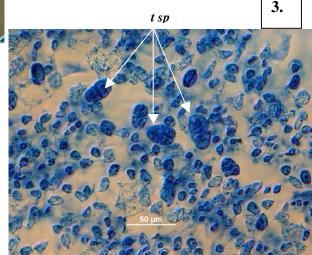
Description in the Benthic Flora Part IIIA, pages 232-234 **Details of Anatomy**



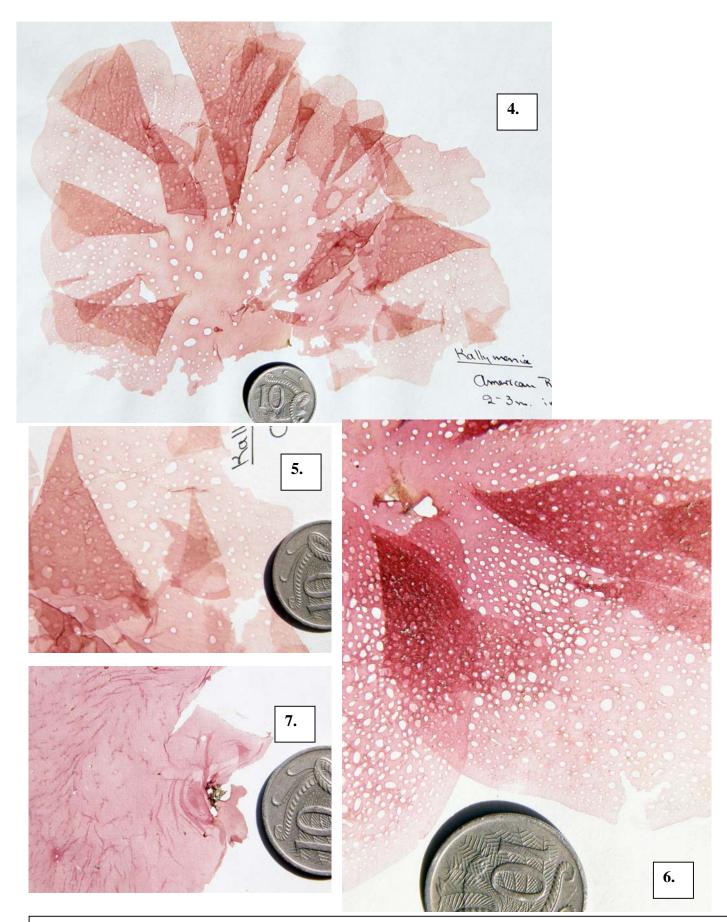


Squashes of *Kallymenia cribrosa* (A34775) stained blue and viewed microscopically showing:

- 1. a star-shaped (stellate) cell (*st c*) with thin contents, arms extending into threads (filaments, *fil*) and outermost (cortical) cells (*co*) (slide 2933)
- 2. a young female structure (carpogonial branch system, *cbs*) with a single thread like carpogonium (*carp*) characteristic of this species (slide 2933)
- 3. tetrasporangia (*t sp*) in various stages of dividing into a cross-shaped (cruciate) pattern (slide 2934)



45.320



South Australian specimens of Kallymenia cribrosa Harvey at different magnifications

- 4. from 2-3m deep, off Muston, American River inlet, Kangaroo I. (A42405)
- 5. detail of mixed sizes of holes in the same blade
- 6. detail of the mixed sizes of holes in the blade from Elliston, West Coast (A37360)
- 7. detail of the base of a blade with few perforations and a very short stalk, from 22m deep at Waldegrave I., (A35829)