

# *Schizoseris tasmanica*

Lin & Kraft

45.880.50

## Techniques needed and shape



MACRO  
PLANT



## Classification

Phylum: Rhodophyta; Family: Delesseriaceae; Tribe: Nitophylloideae;  
Group: Myriogramme

## \*Descriptive name

frilly blades

## Features



plants rose-red, 100-350mm tall, 50-200mm wide, usually of a *single* thin leafy blade with densely *ruffled* edges, and practically *no visible* veins; basally a small, thin *stalk* about 20mm long

## Occurrences

only known from SE Tasmania

## Usual Habitat

on rock from 6-15m deep

## Similar Species

*Schizoseris hymenena*, but that species has branched stalks, more blades and visible veins

## Description in the Benthic Flora

Part IIID, pages 114-116

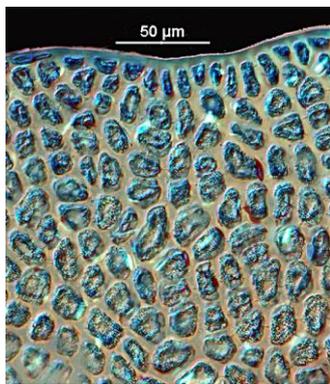
## Special Requirements

view microscopically to find:

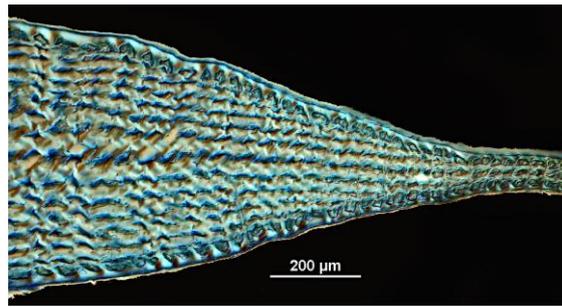


- in surface view: *fringes* of dividing cells at blade edges, blades are *one cell thick* except at veins, stalks and reproductive organs
- in pustule-like female structures scattered on blades: slightly off-centre openings (ostioles)
- in sporangial plants: tetrasporangia in *scattered* patches (sori) on blades

## Details of Anatomy

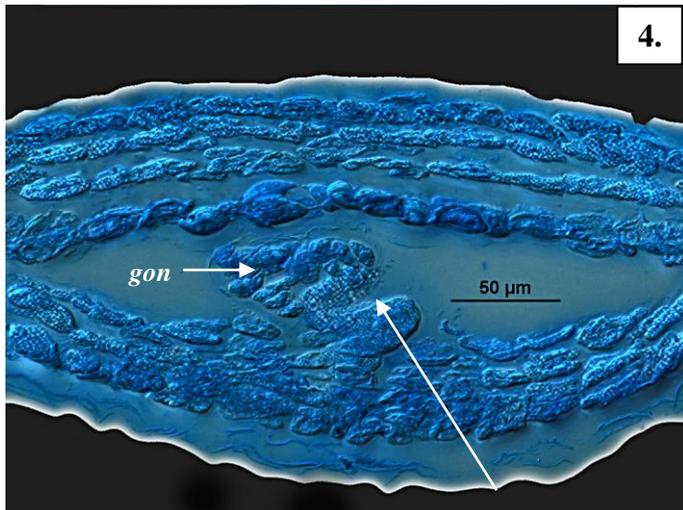
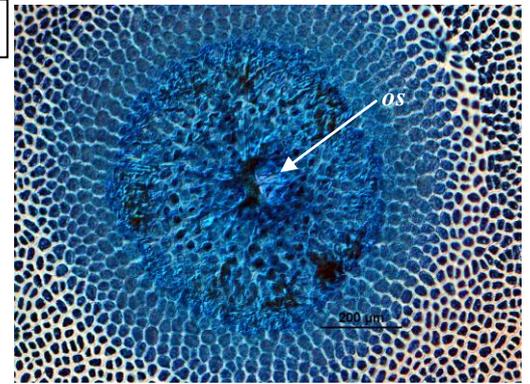


1.

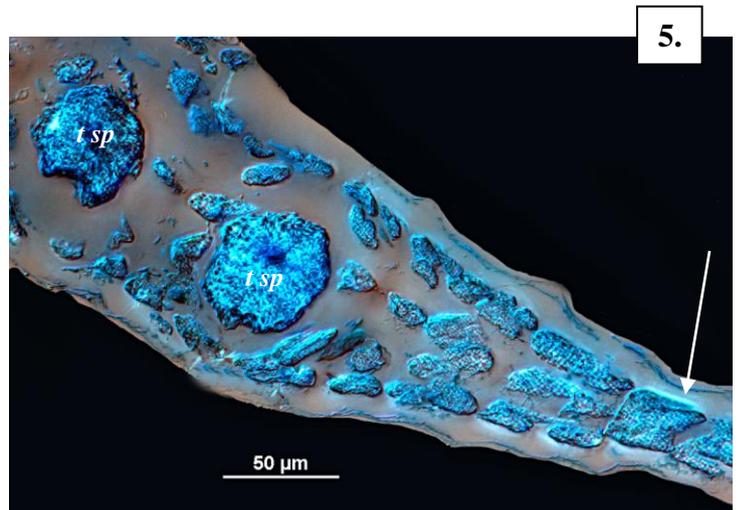


2.

3.



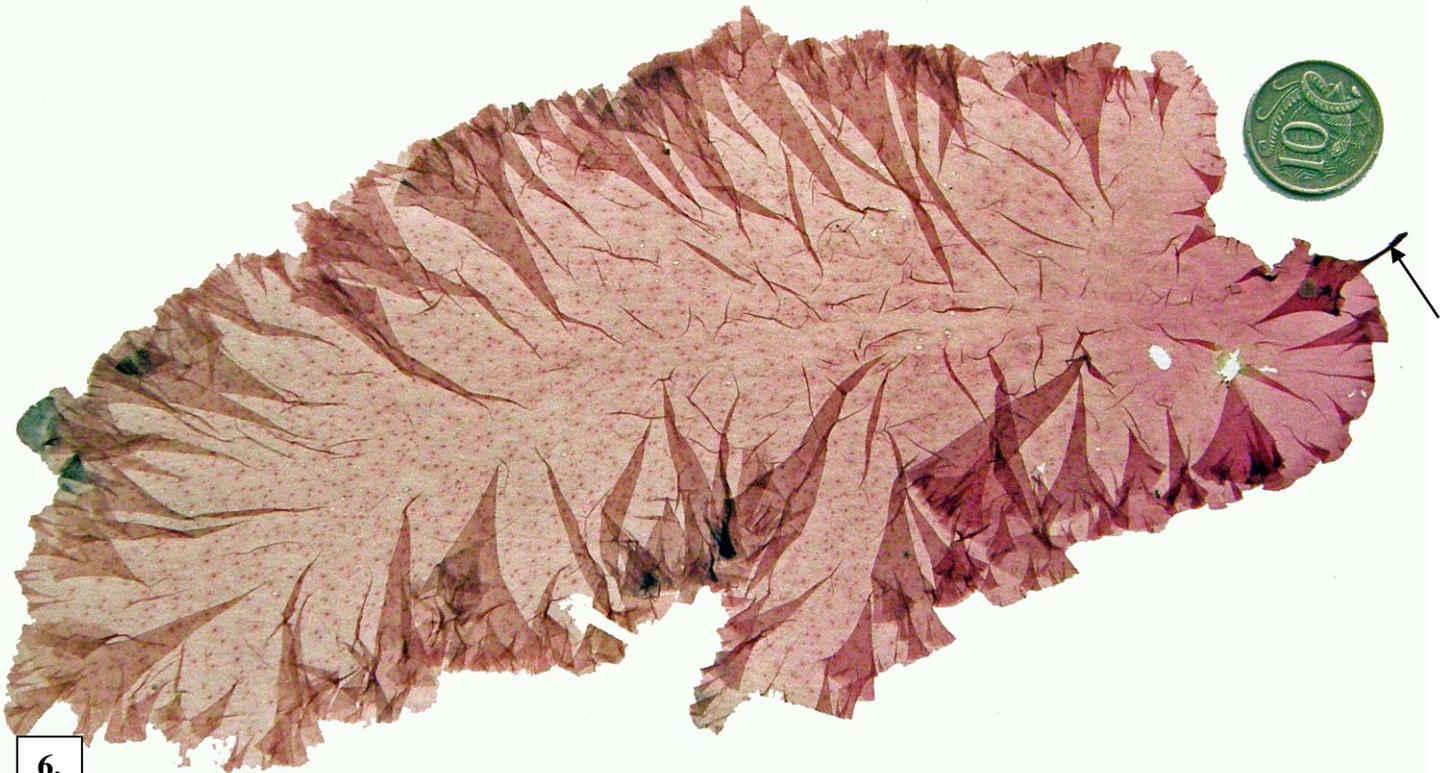
4.



5.

*Schizoseris tasmanica* Lin & Kraft stained blue and viewed microscopically

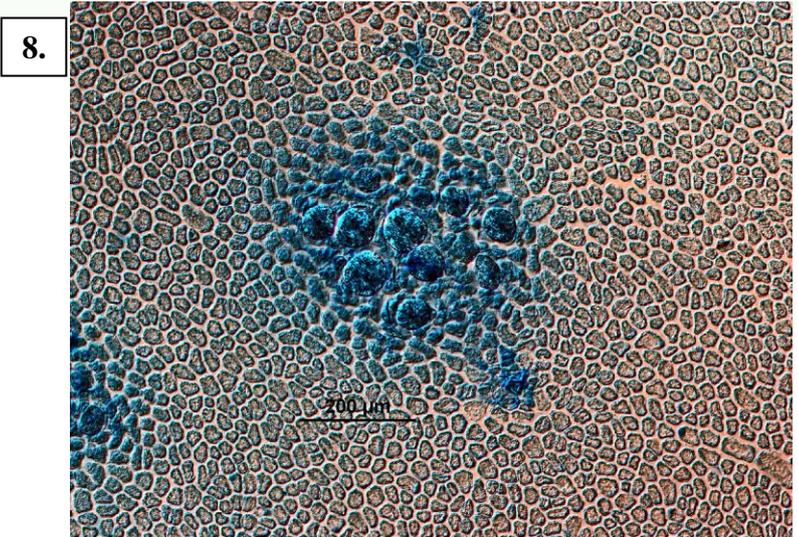
1. blade edge, surface view: fringe of dividing cells continuing the growth of the blade (slide 17704)
2. cross section through a vein: tiers of cells decreasing in numbers towards the blade edge (slide 17532)
3. surface view of a female structure (cystocarp): slightly off-centre opening (ostiole, *os*) (A68055 slide 17751)
4. cross section through young cystocarp: sterile cell group (*arrowed*), developing fertile cells (gonimoblast, *gon*) (slide 17751)
5. cross section, sporangial plant : 2 developing tetrasporangia (*t sp*), sterile part of blade (*arrowed*) one cell thick (slide 17702)



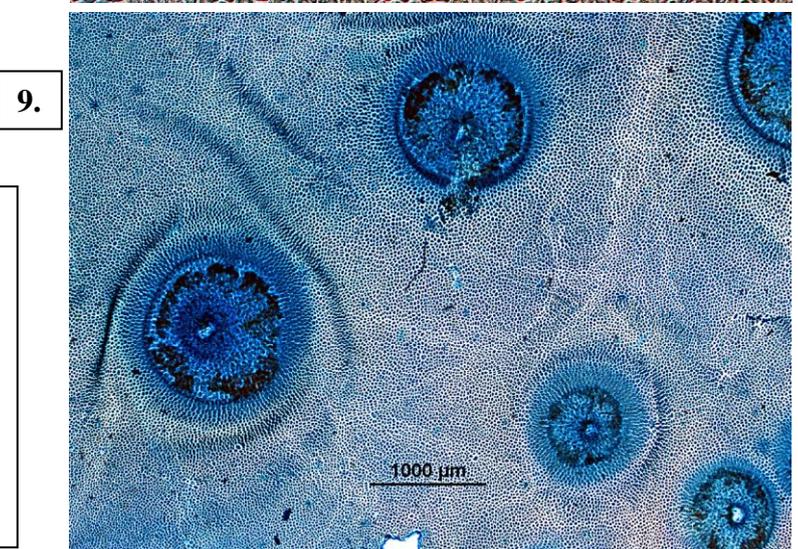
6.



7.



8.



9.

6, 7. Two magnifications of *Schizoseris tasmanica* Lin & Kraft (A68024) showing the small basal stalk (**arrowed**), obscure veins and scattered patches of tetrasporangia  
 8, 9. microscope surface views of specimens stained blue:  
 8. patch (sorus) of tetrasporangia ( slide 17765)  
 9. cystocarps (slide 17751)

\* Descriptive names are inventions to aid identification, and are not commonly used  
 "Algae Revealed", R N Baldock, State Herbarium, S Australia, January 2009; edited July 2014