Acrosorium minus
(Sonder) Kylin

A SPECIES WITH FEW RECORDS

45.880.50

Techniques needed and shape

MACRO PLANT

foliose

Classification Phylum: Rhodophyta; Order: Ceramiales; Family: Delesseriaceae
Tribe: Nitophylloideae; Group: Cryptopleura

***Descriptive name** fingertip film-plant

Features Plants are red, about 30mm tall, with alternate branching from blade ***edges***, in one ***flat*** surface with fingertip-like endings

Special requirements

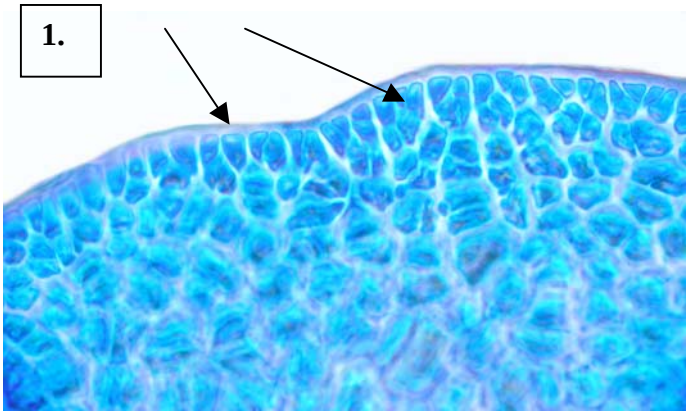
1. View plants microscopically to find:
   - growth occurs by divisions of cells along the ***margins*** of blades
   - ***microscopic veins*** are present but are not all interconnected and there are ***no*** large mid-line veins
   - tetrasporangial patches are ***rounded*** and found in ***upper*** branches
2. If possible, cut a slice across a blade through a sporangial patch (sorus) to view the tetrasporangia on two sides of the sorus and the blades often of a ***single*** cell layer

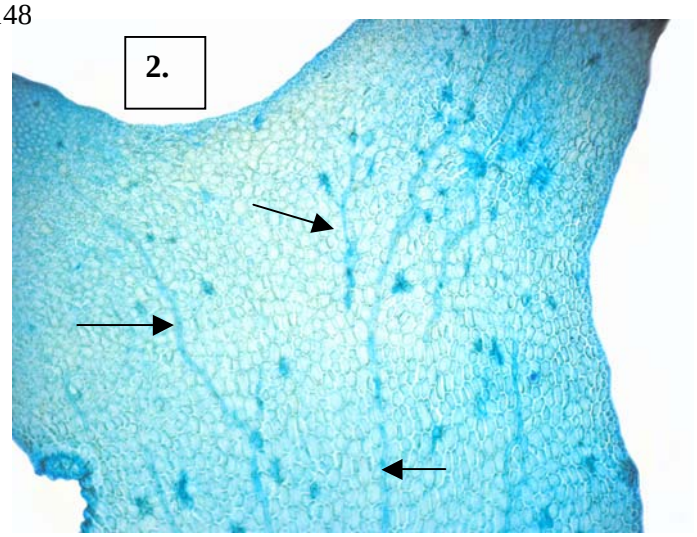
Usual Habitat Swan R., Fremantle and Penguin I., W. Australia

Similar Species similar to *Hymenena multipartita*, but there are no large mid-line veins in *Acrosorium* and the blades are largely of a single cell layer. It differs from *Acrosorium ciliolatum* in broader fronds that do not curl at the tips. The correct identity of the species awaits further research when more complete material is available

Description in the Benthic Flora Part IIID, pages 147-148

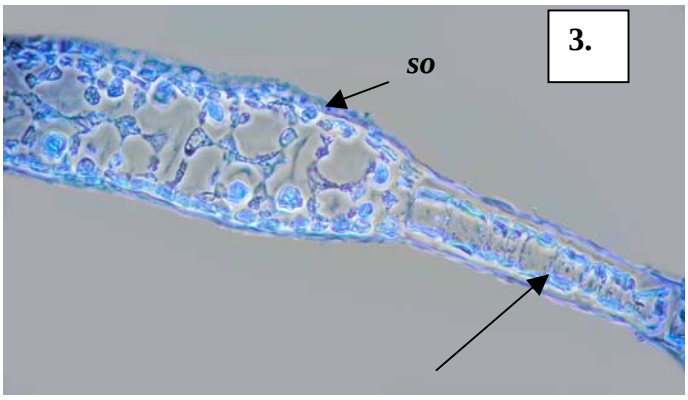
Details of Anatomy





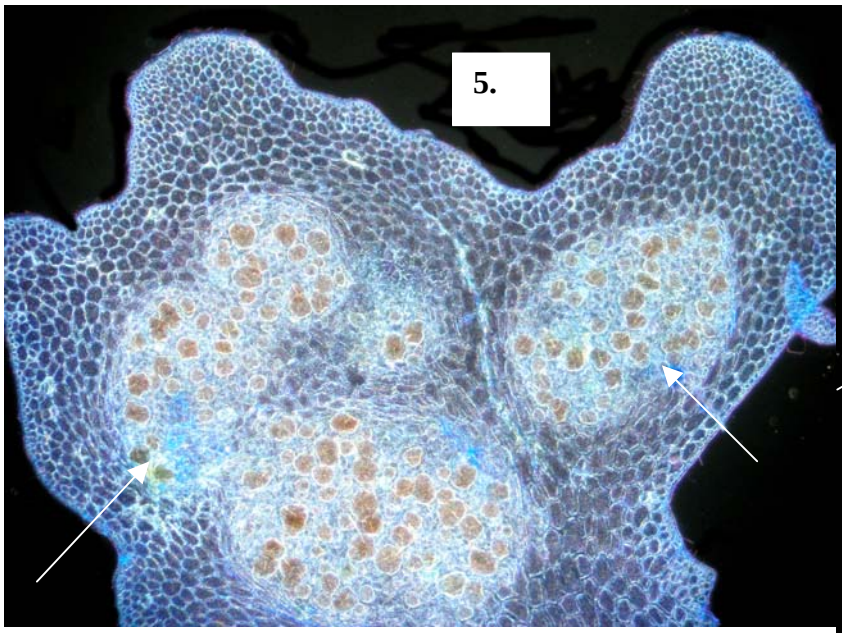
Views of *Acrosorium minus* of different magnifications, stained with aniline blue

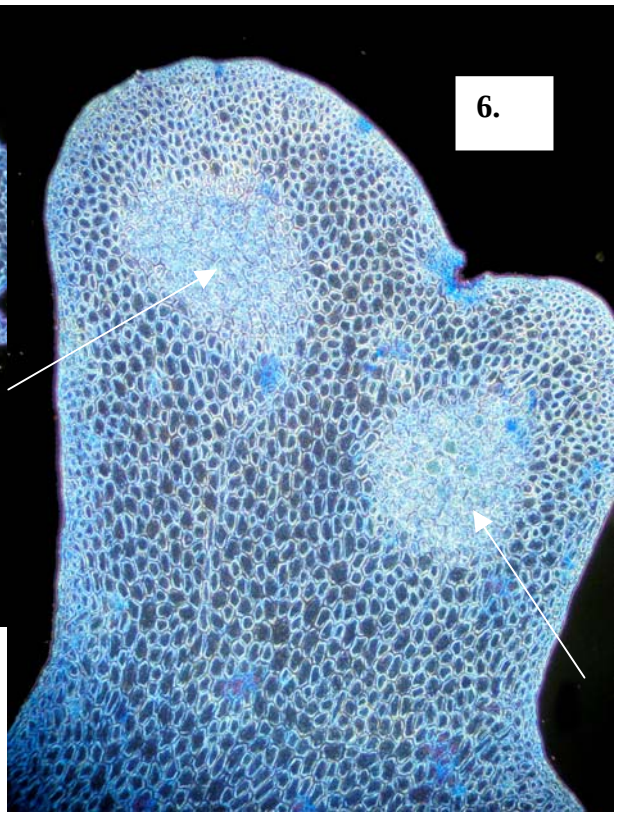
1. showing a blade edge with dividing marginal cells (arrowed) (A18216, slide 18071)
2. a surface view of a blade showing microscopic veins (arrowed) (A18216 slide 18071)
3. slice across a blade through a sporangial patch (sorus, ***so***) showing young tetrasporangia on both sides, and a part of the blade with a single row of cells (arrowed) (A68352 slide 18732)



* Descriptive names are inventions to aid identification, and are not commonly used
"Algae Revealed" R N Baldock, S Australian State Herbarium, November 2005

4. ***Acrosorium minus*** (Sonder) Kylin, (A18216). An old specimen from "Fremantle"





Two views of *Acrosorium minus*, (A68350), specimens stained with aniline blue and viewed with dark field microscopy to emphasize the cellular structures and tetrasporangial patches (sori, arrowed)

5. slide 18225
6. slide 18731

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