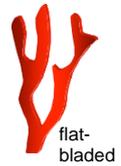


Chlanidophora microphylla
(Harvey) J Agardh

34.390



MACRO
PLANT



Techniques needed and plant shape

Classification

Phylum: Phaeophyta; Family: Dictyotaceae; Tribe: Zonarieae

***Descriptive name**

fine fan-tips

Features

1. plants dark brown colour, 50-150mm long with *felty*, branched stalks and *fine* fan-shaped or pointed blades at the tips
2. *rhizoids* at the base twisted
3. *actively growing* tips are *fan-shaped* with a dark marginal *line* of dividing cells (meristem), but *inactive* tips are *pointed*



Variations

Note that older blades cease growth and tips become *pointed*

Special requirements

1. view the tips of actively growing blades to find the dark line of dividing cells
2. slice across a young blade to find the **2** rows of *equal* sized cells
3. find a sporangial plant with *scattered* sporangia, characteristic of the genus



**Occurrences
Usual Habitat**

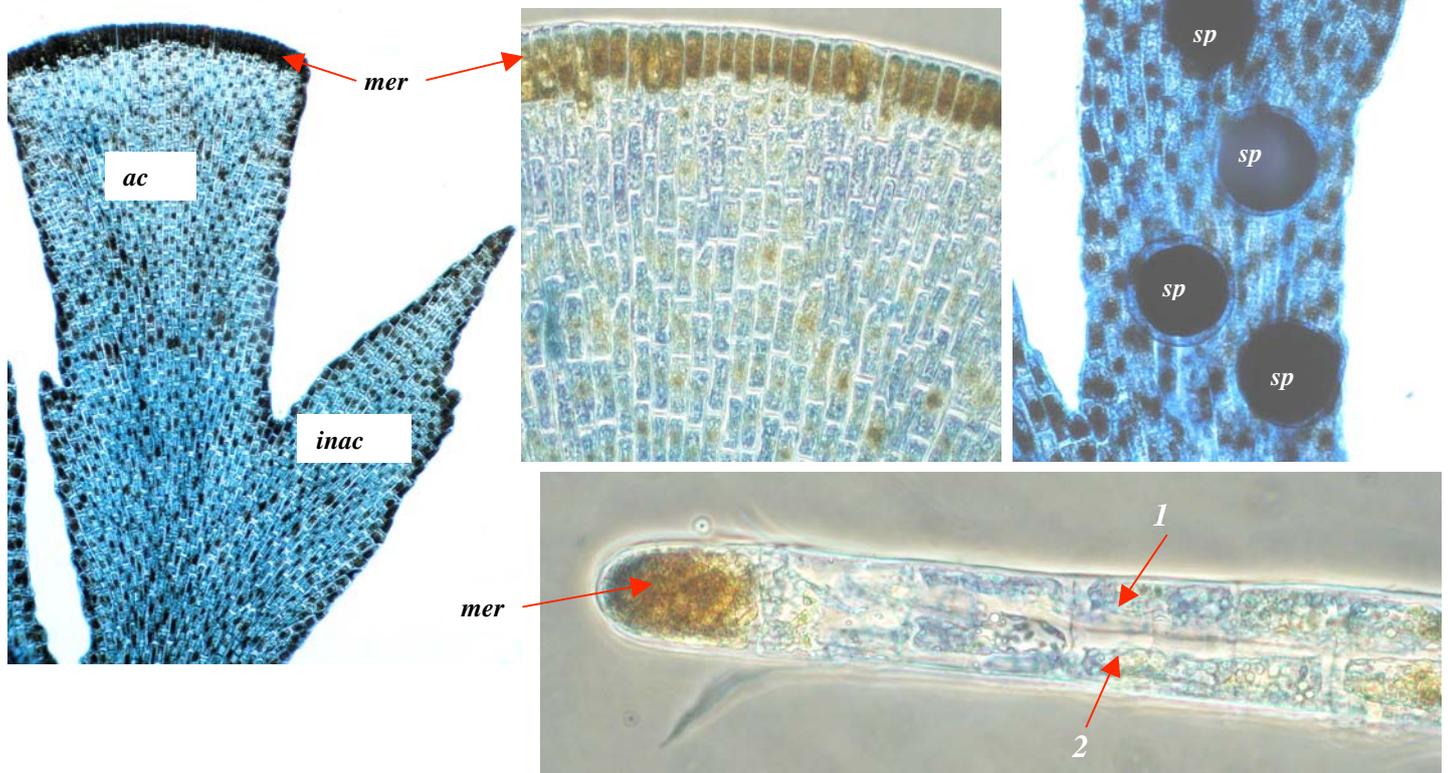
West Coast islands S Australia to Victoria
shaded reef pools to 35m deep

Similar Species

1. *Halopteris* spp. but these have a single, large, black apical cell
2. *Distromium multifidum*. Only sporangial plants can be separated easily

Description in the Benthic Flora Part II, pages 229-230, 233-234

Details of Anatomy



Chlanidophora microphylla stained blue and viewed microscopically

1. active tip (*ac tp*) with a dark fringing line of dividing cells, (meristem, *mer*) and inactive pointed tip (*inac tp*) (Slide 9814)
2. actively dividing cells (meristem, *me*) fringing a fan-shaped blade (slide 9814)
3. detail of scattered sporangia (*sp*) (slide 9812)
4. section through a blade tip with meristem cell (*mer*) and 2 cell layers (*1, 2*) (slide 9814)

* Descriptive names are inventions to aid identification, and are not commonly used
"Algae Revealed" R N Baldock, S Australian State Herbarium, July 2003



Chlanidophora microphylla (Harvey) J Agardh from Nora Creina, S Australia, in shade, in the uppermost intertidal of a rough-water coast

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"Algae Revealed" R N Baldock, S Australian State Herbarium, July 2003