Dictyopteris nigricans Womersley

Techniques needed and plant shape









Classification

Phylum: Phaeophyta; Family: Dictyotaceae; Tribe: Zonarieae

*Descriptive name

black flanged blades

Features



- 1. plants dark brown, drying *black* consisting of flat (complanate) forked, long, narrow blades and generally scattered hair tufts
- 2. blades have a *prominent* midrib and *narrow* "flanges" (wings)

Variations

- 1. irregular branching may result from damage due to grazing
- 2. lower blades may be eroded to midline veins only

Special requirements



1. view the row of dividing cells (meristem) in a slight depression at the blade tips

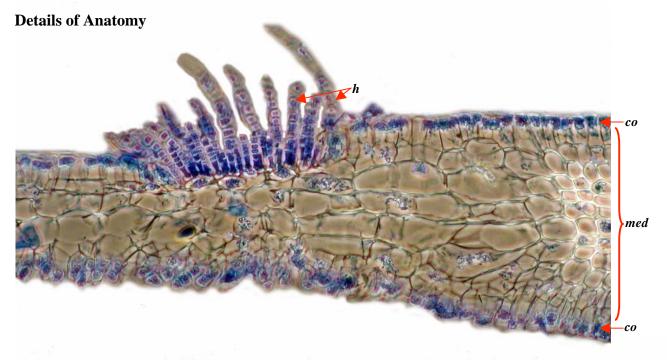
2. slice across a blade to view the 4-7 rather jumbled cell rows of in the blade wings ("flanges") and up to 20 cell rows in the midrib

Occurrences Usual Habitat from Eyre Peninsula to Victoria and N Tasmania on rock, sometimes in large patches, in reef pools or shallow water of rough coasts

Similar Species

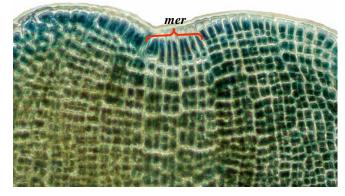
some plants intergrade with *Dictyopteris muelleri*, but this species generally has wider blades and the middle (medulla) of blades has 2 cell rows only

Description in the Benthic Flora Part II, pages 227-229



Dictyopteris nigricans stained blue and viewed microscopically (slide 9808)

- 1. blade tip with a row of dividing cells (meristem, *mer*) in a slight depression
- 2. cross section through pert of the midrib (*m r*) of a blade, showing dark coloured outer layers (cortex, *co*) middle layer (medulla, *med*) of colourless cells, up to 20 deep in the midrib region and a tuft of hairs (*h*)



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



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