Dictyopteris australis (Sonder) Askenasy

Techniques needed and plant shape

Classification

Features

Variations

Occurrences

Special requirements

MACRO PLANT

Phylum: Phaeophyta; Family: Dictyotaceae; Tribe: Zonarieae

*Descriptive name chevron fork-tips; \$southern forkweed

1. plants brown, 100-300mm long, blades *flat*, forked (dichotomous), eroded to

thin stalks at the plant base

2. *prominent* mid-rib present with *prominent* hair tufts arranged in a chevron-like pattern (*down-curved lines*) from the mid-rib to blade edge

small branches (proliferations) at right angles to the blades may occasionally occur. The row of apical cells at the tip may be obscure.

1. view the *row* of dividing cells (meristem) at the blade tips

2. slice across a blade to view the *gradation* from 1-cell thick to many cells thick in the mid-rib region

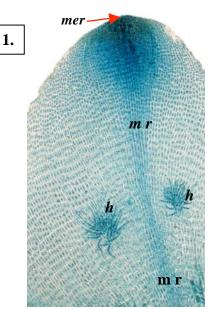
from W Australia to southern Australia and Queensland, Lord Howe I.,

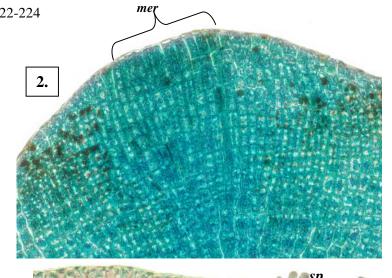
Indian sub-continent and Hawaiian Is

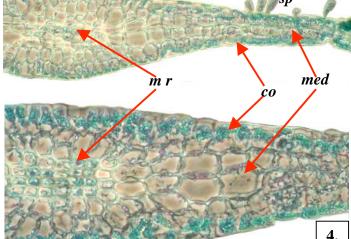
Usual Habitat on hard surfaces, widespread

Similar Species unique mid-line vein and hair patterns make this species easily recognised

Description in the Benthic Flora Part II, pages222-224 **Details of Anatomy**







- 1, 2. microscope views of *Dictyopteris australis* stained blue
 - 1. blade tip showing the region of the meristem, (*mer*), developing midrib (*m r*) and hair tufts (*h*) (slide 9696)
 - 2. detail of a blade tip showing the row of growing cells (meristem, *mer*) (slide 9696)
- 3, 4. two cross sections of blades stained blue, showing
 - outer coloured layers (cortex, co)
 - sporangia (sp)
 - colourless middle layer (medulla, *med*), a single cell thick at blade edges, with box-shaped cells in 4 rows, in the midrib (*m r*) (slide 9696)

3.

^{*} Descriptive names are inventions to aid identification, and are not commonly used § name used in Edgar, G. *Australian Marine Life, 2nd Ed.* (2008)

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



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