Techniques needed and plant shape









Classification

*Descriptive name **Features**

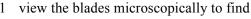


alternately-branched brown forked tips

- 1. plants are olive-brown to dark brown, 50-150mm long
- 2. branching is *alternate*, forked only at the very tips
- 3. branches are **2–4mm** broad

Special requirements





- single, *lens-shaped* apical cells that continue the growth of the blade
- if possible, *large* sporangia, 100-160µm across, on the blade surface, scattered *sparsely* or in small *packets*
- if possible, scattered patches of male cells, looking like pustules
- 2. slice a blade across and view microscopically the middle (medulla) layer of a single row of large cells, outer (cortex) layer of a single row of small cells and sparse clusters of stubby hairs on the surface

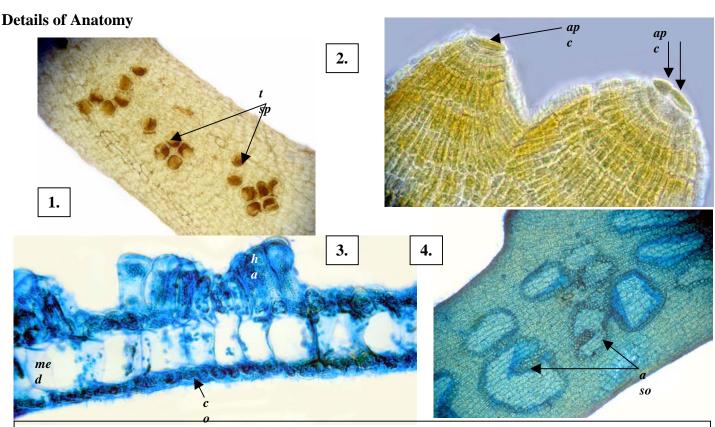
an infrequent species, from Marion Bay, S Australia to Low Head, Tasmania on rock, 3-13m deep

Occurrences Usual Habitat



Dictyota alternifida, but fronds are narrower (1-2mm broad), sporangia are smaller and side tufts develop in that species

Description in the Benthic Flora Part II, pages 197-198



Dictyota fenestrata (A47111)

- showing scattered packets of large sporangia (tetrasporangia, t sp) on the blade surface (slide 9388)
- with lens-shaped apical cells (ap c) (slide 9389)

a specimen (A68179) viewed microscopically

- cross section showing the middle layer of large cells (medulla, med), outer layer of small cells (cortex, co), and protruding hairs tuft (ha) (slide 18065)
- surface view of pustulate male clusters (antheridial sori, a so) (slide 18066)

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



Dictyota fenestrata J Agardh, (A63058), 3m deep, from Victor Harbor, S Australia

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