

Zonaria angustata
(Kützing) Papenfuss

34.390



Techniques needed and plant shape

Classification

Phylum: Phaeophyta; Family: Dictyotaceae; Tribe: Zonarieae

***Descriptive name**

tiny fan-tips; §thin-leaf fanweed

Features

1. plants dark brown, 80-150mm long with *many* narrow, alternating, *flat* branches ending in chisel- or fan-like tips often slightly twisted
2. basal parts of plants felted (stupose)

Special requirements



1. view the line of dark, dividing cells fringing the blade tips
2. slice across a blade to view the 6-8 regular rows of cells microscopically
3. view the scattered patches (sori) of sporangia that have *no hairs*

Occurrences

from Elliston, West Coast S Australia, around Tasmania to Eden, NSW

Usual Habitat

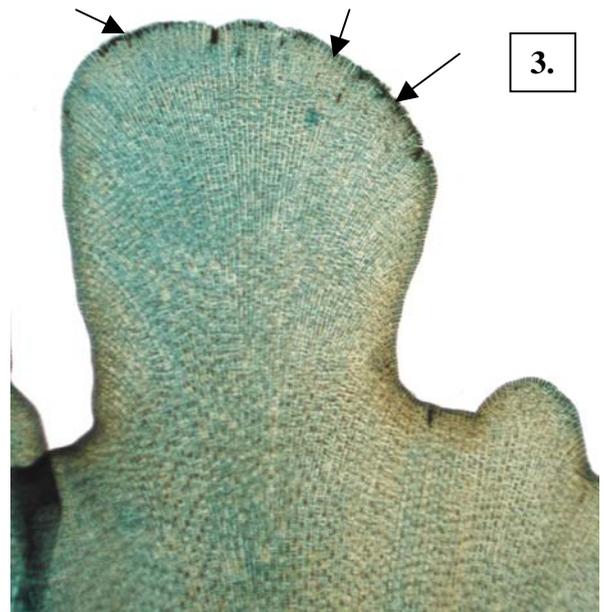
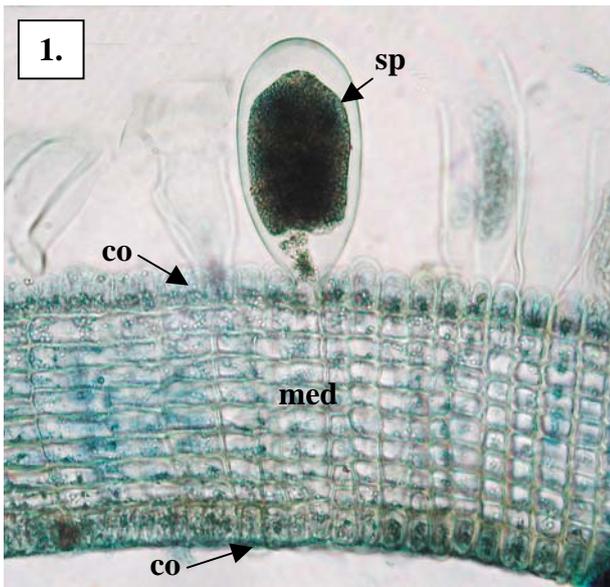
on rock, common in rock pools and shallow rough water coasts

Similar Species

Zonaria turneriana, but blades are slightly wider and sporangial clusters bear hairs

Description in the Benthic Flora Part II, pages 248-250

Details of Anatomy



- 1,2. cross sections through blades, stained blue and viewed microscopically
 1. showing 8 regular rows of colourless cells of the middle (medulla, *med*) layer, and a single row of dark cells of the surface (cortex, *co*) layer. A single sporangium (*sp*) and 4 empty sporangial cases are present (slide 9862); hairs *absent*
 2. showing “eggs” (oogonia) on the upper surface (slide 9863)
3. a blade tip, showing the line of dark dividing cells at the apical fringe (arrowed) (slide 9860)

• 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

4.



5.



4, 5. two magnifications of *Zonaria angustata* (Kützing)
Papenfuss (A34808), from
intertidal rock pools,
Newfield Bay, Victoria

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