Techniques needed and plant shape

Classification

Division: Phaeophyta; Family: Dictyotaceae; Tribe: Zonarieae

*Descriptive name

felted fan-tips

Features

1. plants medium brown, 50-150mm long with slender, felted axes below, and flat, fan-shaped blades above
2. blades have midline hairy (stupose) patches near their bases

Variations

edges of the fans may be frayed

Special requirements

1. view the blade tips microscopically to see the marginal growing region
2. view the regular rows of surface cells
Slice a lengthwise section of a fertile blade to view
- 6 cell layers
- inner (medulla) layers of equal-sized cells with sloping end walls
- sporangia on stalks (pedicels) of several cells

Occurrences

from the Head of the Bight to Newcastle NSW

Usual Habitat

on rock, from low tide in shaded pools to 38m depth

Similar Species

Zonaria species, but surface cells, in some of these species, are paired

Description in the Benthic Flora

Part II, page 242-243

Details of Anatomy

1. tip of a dividing fan-shaped blade showing marginal growing region (meristem, mer) and midline felted (stupose, st) patches in the lower part (slide 9882)
2. surface cells, in regular lines, but not paired as in some Zonaria species (slide 9882)
3. slice along a blade showing a hair (h), the stalk (pedicel, ped) of several cells at the base of a (crumpled) sporangium and inner (medulla) cells of equal size with sloping the end walls, unique to this species (slide 9880)
4. two sporangia (sp) (LH one empty) showing the pedicels (ped) consisting of several cells

*Descriptive names are inventions to aid identification, and are not commonly used

"Algae Revealed" R N Baldock, S Australian State Herbarium, July 2003
Homoeostrichus sinclairii (Hooker & Harvey) J Agardh, (A27100) in shallow water from Snapper Point, Port Lincoln, S Australia

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