

Techniques needed and plant shape

Classification

*Descriptive name Features

Occurrences Special requirements

Occurrences

Usual Habitat



Division: Phaeophyta; Family: Dictyotaceae; Tribe: Zonarieae

deepwater split fronds

- 1. plants brown to grey-brown, 100-200mm long, densely branched
- 2. branches twisted, and matted together into a stalk at the base
- 3. main branches (axes) are *flat* but *split* lengthwise at the tips into forked, linear branches about 1mm wide that *twist*

MACRO

34.390

4. the surface becomes *felty* below

(† reproductive features are unknown)

from Nora Creina, S. Australia to Port Phillip, Victoria

- 1 view the blades microscopically to find
 - frond tips are *flat*, and grow from a *row* of several cells, but this is

Diagnosis can be difficult obscured by the rapid splitting lengthwise into linear forked sections
surface cells are in *rows*

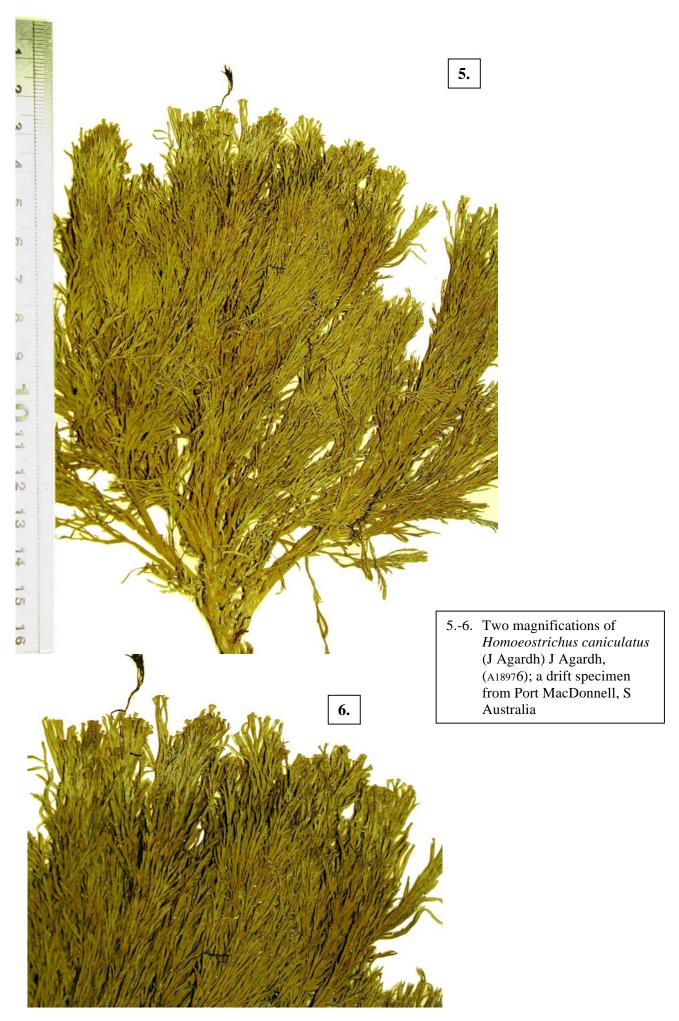
- 2. slice a blade **across** and view microscopically:
 - blades are 6-7 cells thick
 - cells are in *regular* stacks and *equal* in size in this view
- 3. slice a blade *lengthwise* and view microscopically:
 - middle (medulla) cells, still in sracks, but elongate in this view
 - outermost (cortical) cells are small in this view and **4-6** sit above each medullary cell
- SE of S Australia to Victoria

probably a deep water species of rough-water coasts

1, 2. a preserved (bleached) specimen of *Homoeostrichus caniculatus* (A18976) viewed microscopically

- 1. a plant tip showing the splitting of flat fronds into linear, forked pieces
- 2. frond surface to show rows of surface (cortical) cells
- 3.-4. Homoeostrichus caniculatus (A18976 slide 9856), stained blue and viewed microscopically
 - 3. a *cross section* of a blade with *stacks* of *6-7* cells consisting of outer (cortical, *co*) and middle (medullary, *med*) cells, equal size *in this view*
 - 4. a *lengthwise* section. Medulla cells are still in tiers but are elongate *in this view*; cortical cells are small, *4-6* alie to above each medulla cell

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



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