zonate



plants 50-200 mm tall, spore plants larger and less branched than sexual plants, of *soft*, red, *slimy*, cylindrical strands branched irregularly several times,

a single but inconspicuous central thread of cells (axial filament) runs

each filament cell produces a ring of 4 branched side threads radiating

*extremely fine* threads (rhizoids) from the inner (medullary) cells
large tetrasporangia in the cortex of spore plants, divided across (zonately)

outwards and ending in chains of small making up a *compact* outer layer (cortex) bearing colourless long, hairs and thick-walled *icicle-like* short hairs

Dudresnya but the cortex of that species has loosely arranged cells, icicle-shaped

## Techniques needed and plant shape Classification Pl

Phylum: Rhodophyta; Order: Gigartinales; Family: Dumontiaceae

\*red slime strands

1. view the tips of the strands microscopically to find:

West Coast SA to Victoria and around Tasmania

on rock or the sea grass Amphibolis, 2-17 m deep

branches narrowing from base to tips

**Descriptive name** 

Features

**Special requirements** 



Occurrences Usual Habitat Similar Species

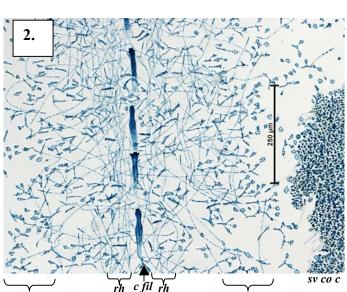
## Description in the Benthic Flora Details of Anatomy

Part IIIA, pages 223-225

hairs absent

through strands

1.



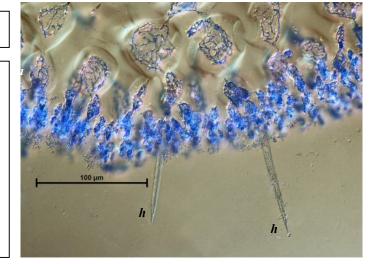
ch



c'n

Dasyphloea insignis

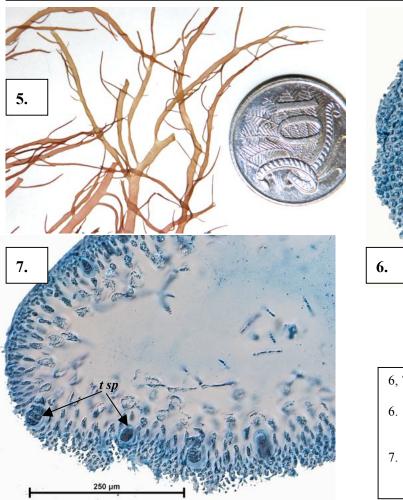
- 1, 2. A29958 slide 04870:
- 1. branch tip, hairs (*h*), inconspicuous central thread (*c fil*)
- 2. tissue squash, central thread wrapped in fine threads (rhizoids, *rh*) and radiating branches ending in small surface cells (*co*) viewed from the side, surface view of cortical cells (*sv co c*)
- 3. A64627 slide 15555, detail of surface cells with icicle-like (acicular) hairs (*h*)

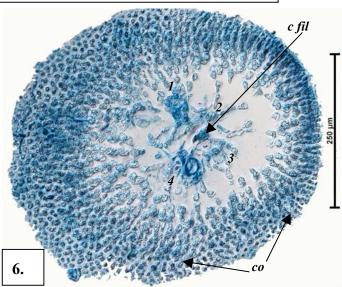


\* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, State Herbarium S Australia, July 2013



4, 5. two magnifications of Dasyphloea insignis Montagne A67061 from Kangaroo Head, Kangaroo I., SA





- 6, 7. *Dasyphloea insignis* A52196 slide 12599, cross section:
- 6. central thread (*c fil*), radiating side threads (1-4), compact outer layer (cortex, *co*) of outward-facing branches of small cells
- branch edge, large tetrasporangia (*t sp*) divided across (zonate) in the outer layer (cortex)

\* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, State Herbarium S Australia, July 2013