Scoresbyella profunda Womersley

A SPECIES WITH FEW RECORDS

34.430

MACRO PLANT

flat-bladed

Techniques needed and shape

Classification Phylum: Phaeophyta; Family: Scoresbyellaceae

***Descriptive name** dimpled fork-tips

Features

1. plant brown, of ***flat***, blades, ***forked*** (dichotomous) at the tips, irregularly branched at the base
2. un-damaged tips are ***dimpled*** (the microscopic apical cell occurs in the pit)
3. hair tufts are scattered or in a mid-line row

Variations the surface may be encrusted with pink coralline algae and blade tips damaged so that the unique apical cell lying in a cleft or dimple is lost

Special requirements

1. view the dimple in a blade tip to locate the unique apical cell (see below)
2. slice through a blade to view the ***large*** cell row of the inner (medulla) layer, inner colourless and outermost coloured cells of the surface (cortex) layers

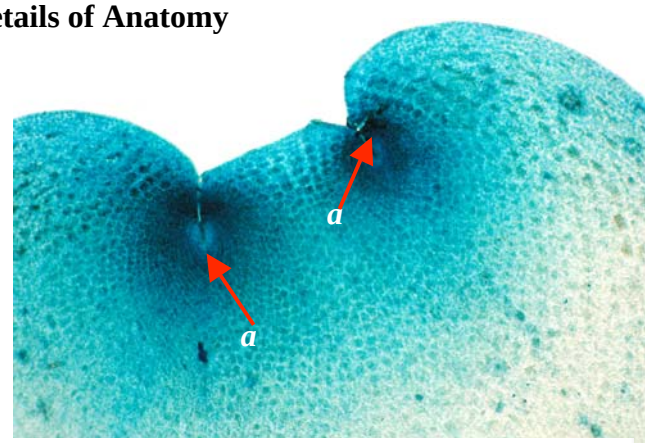
Occurrences Isles of St Francis, Investigator Strait and as drift, SW Yorke Peninsula, S A

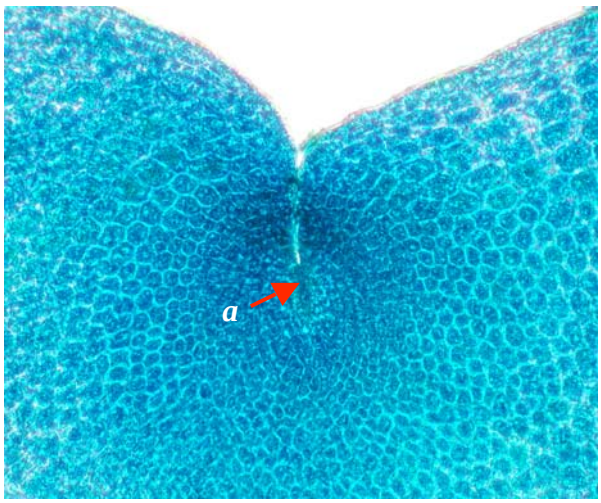
Usual Habitat a deep water species (25-38m), possibly rare

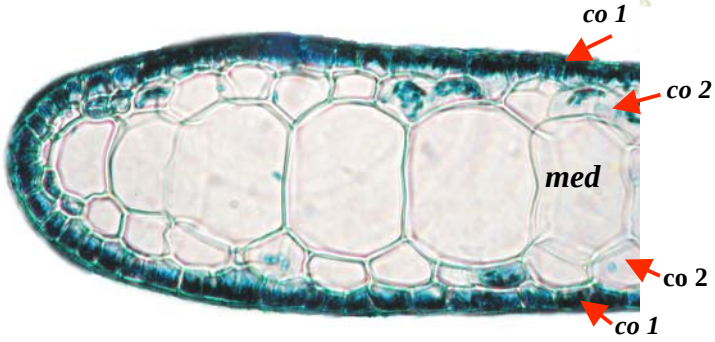
Similar Species several *Dictyota* species, and inspection of the cleft tips is necessary for identification (see below)

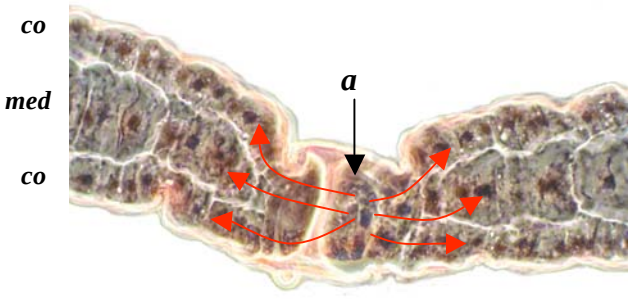
Description in the Benthic Flora Part II, pages 257-259

Details of Anatomy







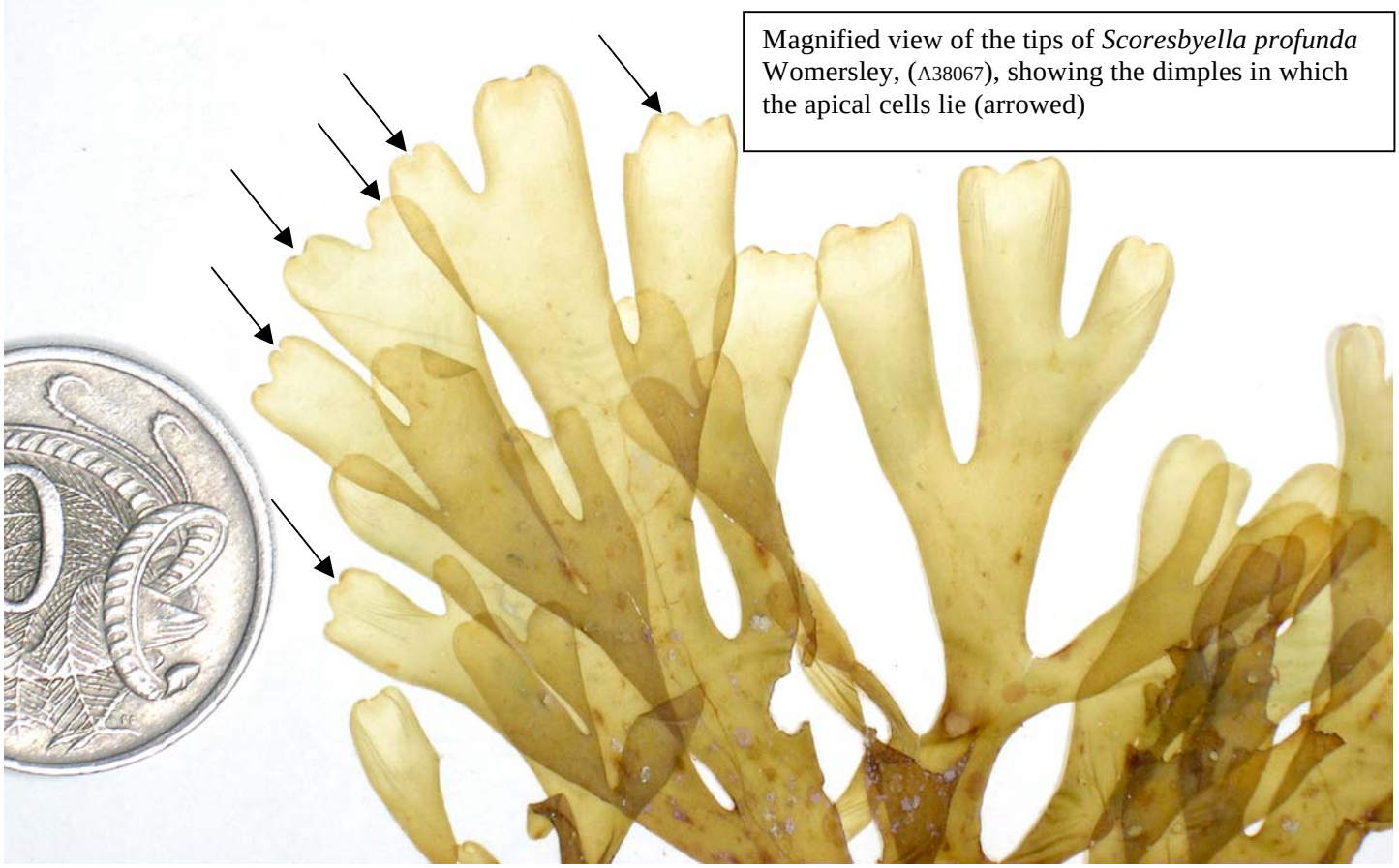


Scoresbyella profunda stained blue and viewed microscopically
1, 2.two magnifications (slide 3294) of apical cells (*a*) lying in dimples or clefts in tips of blades that divide ***lengthwise***
3. cross section through a blade edge showing a single row of large, colourless cells belonging to the true middle (medulla, *med*) layer, the medium-sized row of colourless cells (*co 2*) is derived from the surface cells (*co 1*) which are deeply coloured (slide 3296)

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

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

Scoresbyella profunda Womersley, (A38067), from Egg I., Nuyts Archipelago, S. Australia, 32-38m deep



Magnified view of the tips of *Scoresbyella profunda* Womersley, (A38067), showing the dimples in which the apical cells lie (arrowed)

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