Sympodophyllum reinboldii
Shepley & Womersley

A SPECIES WITH FEW RECORDS

45.880

Techniques needed and shape

Classification Phylum: Rhodophyta; Order: Ceramiales; Family: Delesseriaceae
Tribe: Delesserioideae

***Descriptive name** mini clasping blades

Features plants ≈ 40 mm tall, of main branches (axes) ≈ 1 mm wide with small, *oval-shaped*, incurved, cupped, ***overlapping*** blades clasping axes basally in ***two lines***

Occurrences known only from a 1955 collection from Pondalowie Bay, Yorke Peninsula and a fragment from Investigator Strait S. Australia.

Usual Habitat on the holdfast of the brown alga *Dictyota radicans*

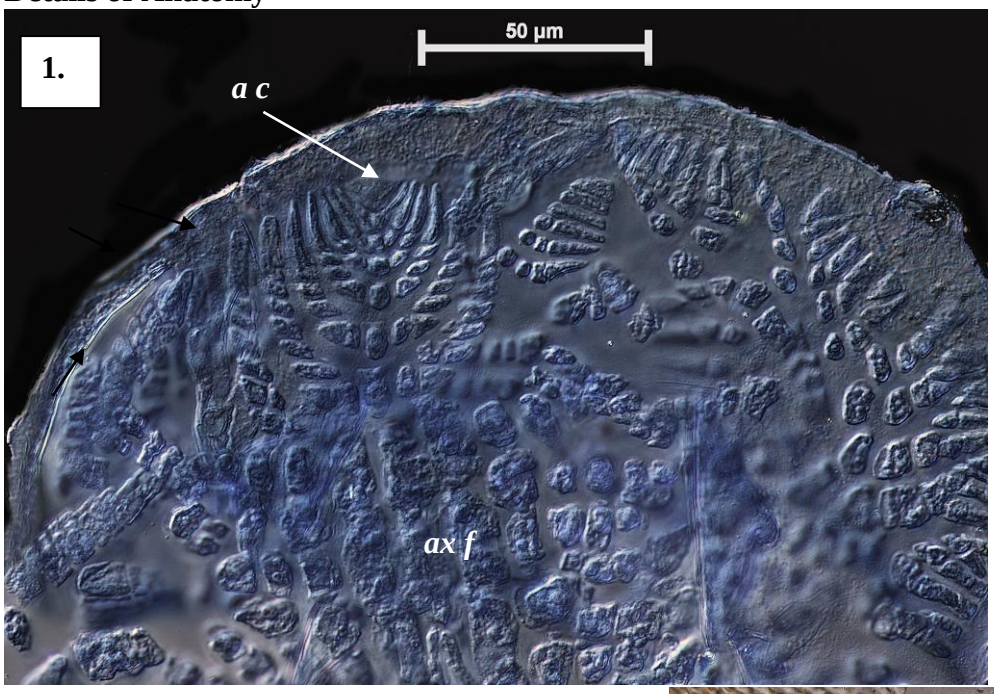
Special requirements view plants microscopically to find

- blades grow from single apical cells producing threads of cells (axial filaments)
- each axial cell produces 4 flanking (pericentral) cells: 2 side ones, one above, one below. The side pericentral cells divide alternately (sympodially) 1-2 times (2nd & 3rd order branching) into curved chains of cells ending in elongate cells at the blade edge
- sporangia in rows across blades are divided into four spores

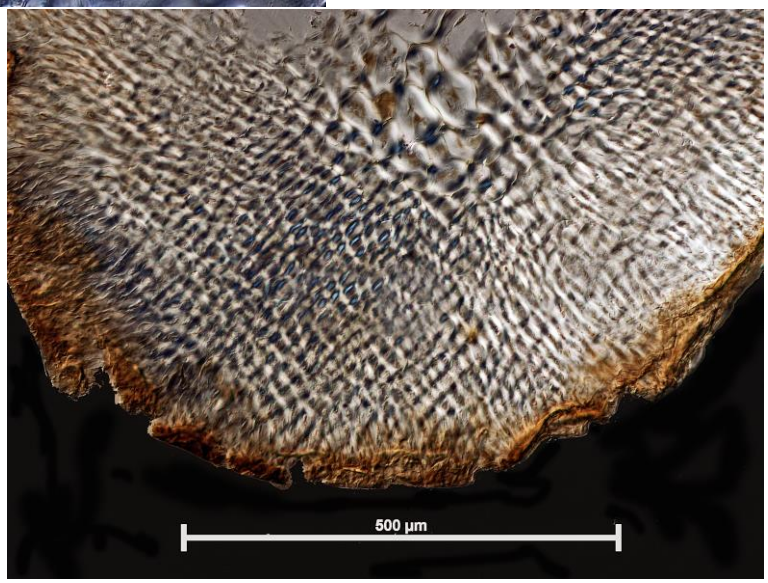
Similar Species a monospecific genus with unique shape

Description in the Benthic Flora Part IIID, pages 28-29, 32

Details of Anatomy



2.



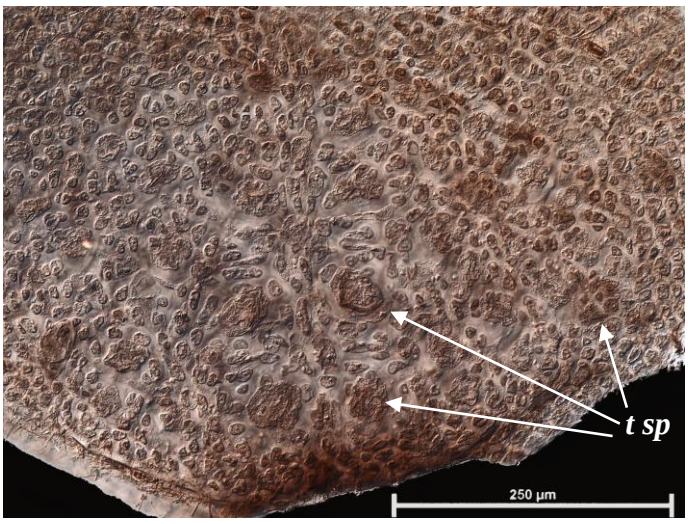
Sympodophyllum reinboldii A14428 stained blue and viewed microscopically (

1. top edge of a blade: apical cell (***a c***), central line of cells (axial filament, ***ax f***), alternating, curved side lines of cells ending in elongate cells at the blade margins
2. cross section of a main branch (axis)

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

3.

4.



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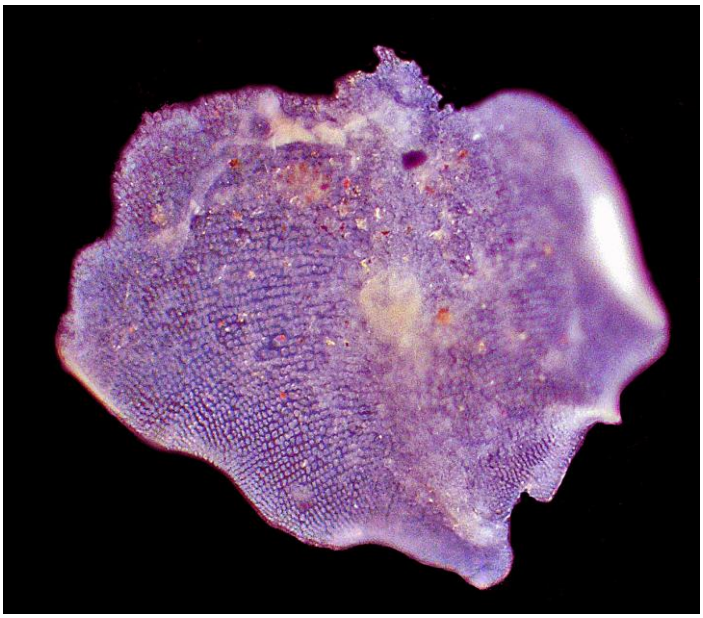

6.

Sympodophyllum reinboldii A19887

3. on the fibrous bases of *Dictyota radicans* washed up at Pondalowie Bay, S. Australia
4. overlapping, curled blades near the plant tip (colourised and magnified)
5. detached blade: tetrasporangia **(*t sp*)** in rows, embedded in the surface
6. detached blade at higher magnification and colourised: central thickened (corticated) spot, and rows of cells spreading out from the blade midline

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"Algae Revealed", R N Baldock, State Herbarium, S Australia, October 2005; revised June 2014