## Trematocarpus affinis (J. Agardh) De Toni

## Techniques needed and shape

Classification
\*Descriptive name
Features

Q



plants red to red-brown, 50-80mm tall, gristly (*cartilaginous*), branches narrow, *forked*, *flattened*, arising in *one flat surface* 

AN INTRODUCED

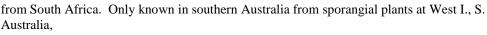
OR ADVENTIVE

**SPECIES** 

45.400

**Occurrences** 

Usual Habitat Special requirements



on rock, 1-8m deep

cut sections and view microscopically to view

A SPECIES WITH

FEW RECORDS

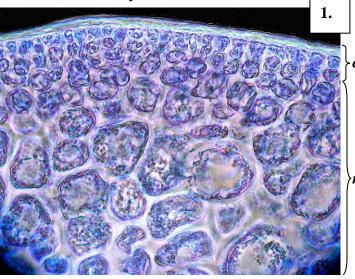
- in cross sections: central cores (medulla) of *large cells*, decreasing in size to outer layers (cortex) of *small cells*
- in lengthwise sections: characteristic *elongate* core cells
- in cross sections of swollen patches containing spores (nemathecium): short chains of cells (*paraphyses* or hairs) separating cigar-shaped spore sacs of 4 spores in a line (*zonate*)

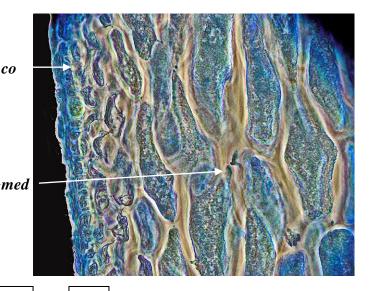
## **Similar Species**

Trematocarpus concinnus, but that species has narrower, cylindrical branches

3.

**Description in the Benthic Flora** Part IIIA, pages 318-320 **Details of Anatomy** 





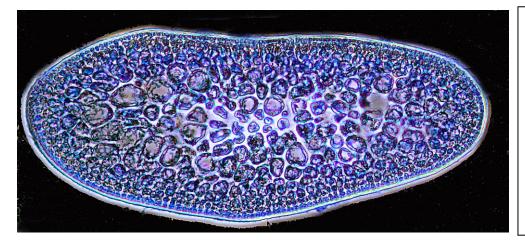
par tsp

*Trematocarpus affinis*, stained blue and viewed microscopically

- cross section of one side of a branch: central core (medulla, *med*) of large cells grading to small cells of the outer layer (cortex, *co*) (slide 1506)
- 2. cross section through a patch (nemathecium) of tetrasporangia (*t sp*) divided across (zonate) and separated by short hairs (paraphyses, *par*) (slide 1506)
- 3. lengthwise section: *elongate* cells in the core (medullary, *med*) layer, characteristic of the genus (slide 13023)



5.



## *Trematocarpus affinis* (J. Agardh) De Toni

- 4. from West I., S. Australia, (A31949), showing the narrow, flat, forked branches
- 5. cross section stained blue and viewed microscopically: characteristic flattened (compressed) shape, small core (medulla) of large cells, outer layer (cortex) of small cells