## Dasya hapalathrix Harvey

## A SPECIES WITH FEW RECORDS



MACRO

PLANT

filament

**Techniques needed and plant shape** 

Classification **\*Descriptive name** Features

**Special requirements** 



Phylum: Rhodophyta; Order: Ceramiales; Family: Dasyaceae red flexuous tufts

plants red-brown, about 200mm tall, with obvious main branches (axes) and side branches with dense, delicate tufts

view microscopically to find: smooth main branches (axes) branching radially several times, heavily clothed



(corticated) by closely adherent *rhizoids* almost to the tips, *dense* tufts (pseudo laterals) of *elongate* cells branched at the *base*, *absence* of hair-like threads (adventitious monosiphonous filaments) cut cross sections and view in young branches 5 large flanking (pericentral)

cells encircling a *small* central thread, in old branches *numerous* rhizoids between the pericentral cells

find *lance-shaped* tetrasporangial structures (stichidia) in lower parts of pseudo-lateral with tetrahedrally divided spores in rings of 4(-5)

Georgetown, Tasmania, Port Phillip, Victoria, possibly Tiparra Reef, S. Australia

possibly on rocks, 10-12m deep

other Dasya spp with radial branching, thick rhizoidal cortication and dense pseudo-lateral tufts, e.g. D. crinita, but that species has thicker, shorter stichidia and pseudo-lateral cells

Cross sections of *Dasya hapalathrix* (A56444 slide 917015) stained blue and viewed microscopically: 2 1. young branch with central thread (*c fil*); 5 flanking cells (pericentral cells, pc c), other large cells and intermingled c fil rhizoids (rh) older branch with pericentral cells still 2. visible but separated by numerous rhizoids 5. 3.

3-5. Dasya hapalathrix A56444 stained blue and viewed microscopically stichidia (*stich*) and young side branch with flanking (pericentral cells, *pc c*) visible in surface view (slide 9105) 3. 4, 5. male clusters (spermatangial heads, *sp h*) on lower pseudo-lateral branches with a short thread at tips (slide 9107)

## \* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, February 2007

**Occurrences** 

**Usual Habitat Similar Species** 

## Description in the Benthic Flora Part IIIC, pages 457-459 **Details of Anatomy**

