Mesogloiopsis tasmanica Womersley & Bailey

Techniques needed and shape

Classification *Descriptive name

Features

Special requirements



Occurrences **Usual Habitat Similar Species**

Description in the Benthic Flora Part II, pages 113-116 **Details of Anatomy**

A SPECIES WITH FEW RECORDS

multiseriate

MACRO

PLANT

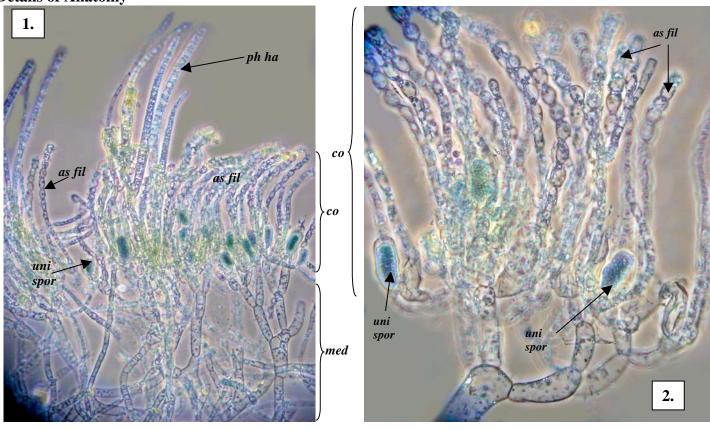
Phylum: Phaeophyta; Order: Chordariales; Family: Chordariaceae stubby slime strands

plants on rock in shallow water or the intertidal, brown, with slimy main branches (axes) 50-100mm long, and short, stout side branches cut a cross section and view microscopically to see:

- a middle layer (medulla) initially of threads initially longitudinal, but later replaced with branched, *loosely associated* threads
- surface layer (cortex) with thin, colourless (phaeophycean) hairs and chains of about 18 brown-coloured (photosynthetic assimilatory filaments) of only one type in the cortex
- single-compartmented (unilocular) sporangia at the base of cortical threads

known only from Tasmania on the Tessellated Pavement, Eaglehawk Neck in shallow water or intertidal

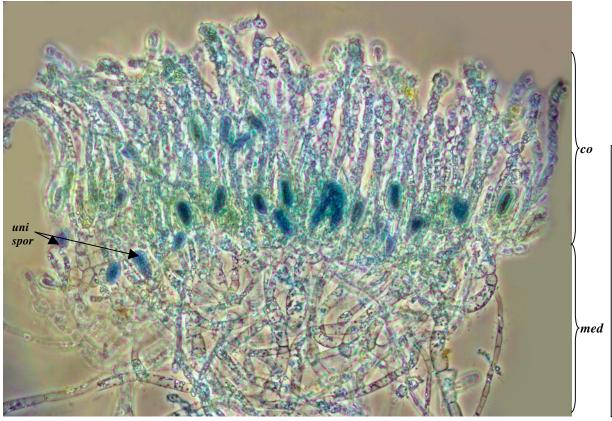
other members of the Chordariaceae (Myriogloea, Suringariella, Papenfussiella) but Mesogloiopsis differs in that it has colourless (phaeophycean) hairs and lacks compact filaments in the middle (medulla) layer



1, 2. Dissected pieces of *Mesogloiopsis tasmanica*, (A30075, slide 9303) stained blue and viewed microscopically at different magnifications showing:

- mass of loosely associated, branched middle filaments (medulla, med)
- outer layer (cortex, co) of chains of coloured, cells (assimilatory filaments, as fil), bead-like towards the tips, thin colourless hairs (phaeophycean hairs, ph ha) and ovoid single-compartmented (unilocular) sporangia (uni spor)





Mesogloiopsis tasmanica, (A30075, slide 9303), showing loose, branched filaments of the medulla (med), simple chains of cells in the cortex (co), and layer of singlecompartmented (unilocular) sporangia (uni spor)

4.