Pterothamnion flexile (E M Wollaston) Athanasiadis & Kraft

A SPECIES WITH FEW RECORDS

45.800.32



Classification

Occurrences

Usual Habitat

Similar Species

*Descriptive name **Features**

Special requirements







MICRO

ent

Phylum: Rhodophyta; Order: Ceramiales; Family: Ceramiaceae; Tribe: Pterothamnieae slender threads

plants rose-red, upright, slender (sometimes drying brown), 40-80mm tall, main branches flat-branched with hair-like side branches

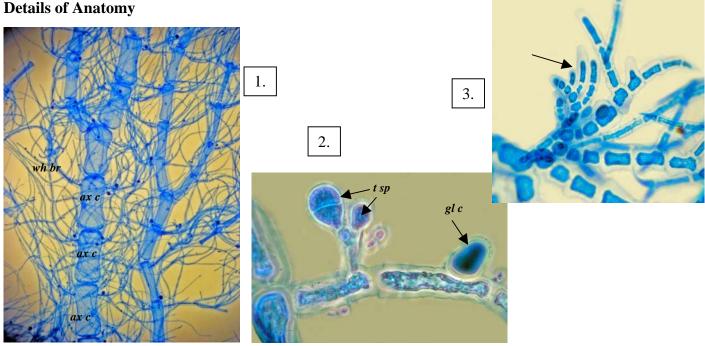
view microscopically to find

- upright main branches (axes) of large, forked, unclad (*ecorticate*) cells flat-branched only in the upper parts of the plant
- 2 (or 4) opposite, narrow, *hair-like* side branchlets from each axial cell, equal in size, initially one-sided, finally opposite, some ending in coiled threads, acting as rhizoids for attachment, numerous, bright gland cells, *protruding* at an angle from the branchlet cells
- stalked tetrasporangia on lower cells of whorl branchlets, dividing eventually into 2 opposite pairs of spores (decussate).

Fitzgerald Bay, near Pt Lowly, and 20km WSW of Outer Harbour, S Australia 14m deep on a tyre reef and 22-25m deep on old shells other Pterothamnion species with equal-sized whorl branchlets especially P. ramulentum which has coiled branchlet ends but these species have shorter

Description in the Benthic Flora Part IIIC, pages 147-148

branchlets.



- 1-3. Pterothamnion flexile A46637 slide 5357 stained blue and viewed microscopically
 - 1. main branches (axis) of large, naked (ecorticate) cells (ax c) with 2 fine, hair-like whorl branchlets (wh br) from each cell
 - 2. stalked tetrasporangia commencing to divide in 2 opposite rows (decussate) and a prominent gland cell (gl c) protruding from a whorl branchlet cell
- 3. tips of a whorl branchlet showing the initial one-sided branching pattern (arrowed) (A46637 slide 11036)



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- 4. A46637 from 20km WSW of Outer Harbour, S Australia, 22-25m deep on old shells
- 5. A59341 from Fitzgerald Bay, near Pt Lowly, S Australia, 14m deep on a tyre reef
- 6. specimen stained blue and viewed microscopically showing fine, curved ends (arrowed) to whorl branchlets and bright, egg-shaped glands (A46637 slide 11036)