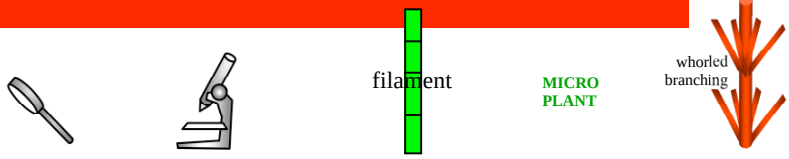
Antithamnionella glandifera E M Wollaston

A SPECIES WITH FEW RECORDS

45.800.24

Techniques needed and plant shape



Classification Phylum: Rhodophyta; Order: Ceramiales;
Family: Ceramiaceae; Tribe: Antithamnieae;

***Descriptive name** glandular red tuft weed

Features plants red, tiny, about 20mm tall, main branches forked, covered with short side branches in rings or whorls

Special requirements

1. view microscopically chains of naked (***ecorticate***) cells of main branches (axes) branched 3-6 cells apart, 1-4 ***short*** side branches (whorl branchlets) arising from each cell, unbranched towards plant tips with bright ***gland cells***, sometimes in large numbers lying ***over*** cells of older whorl branchlets
2. view naked, fertilised female structures of ***2-3*** bunches of sporangia (***gonimolobes***), involucre (envelope) ***absent***

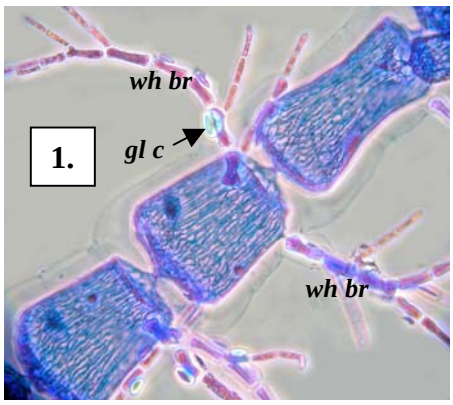
Occurrences Port Stanvac, S Australia and the Tamar River, Tasmania

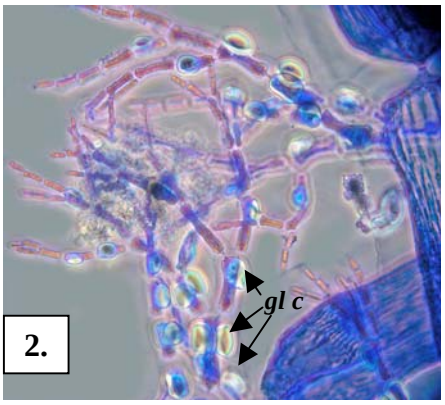
Usual Habitat on jetty piles and an old barge, 3-12m deep

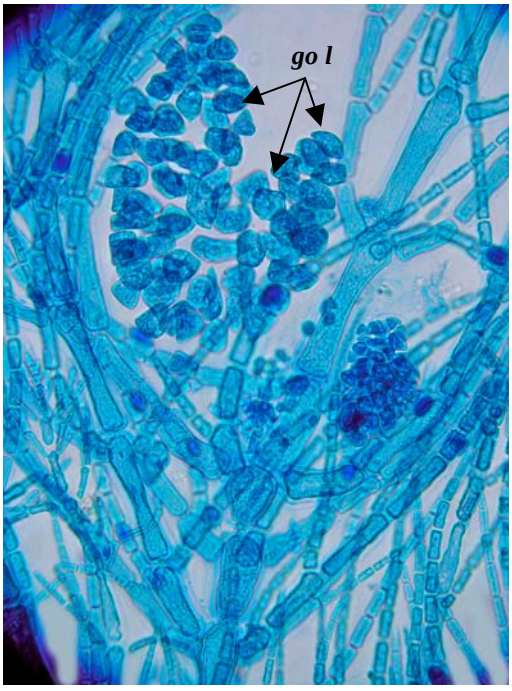
Similar Species *Antithamnionella spirographidis* but that species has unbranched whorl branchlets and more numerous gland cells in ***lower parts***.

Description in the Benthic Flora Part IIIC, pages171, 172, 174

Details of Anatomy







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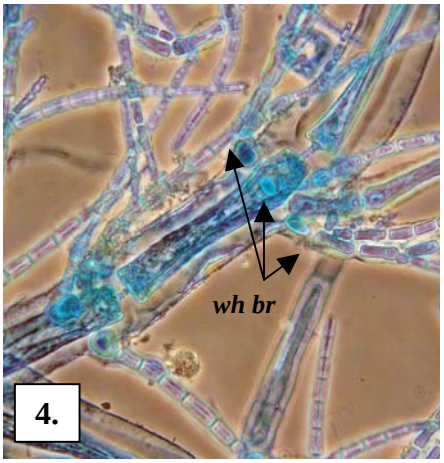
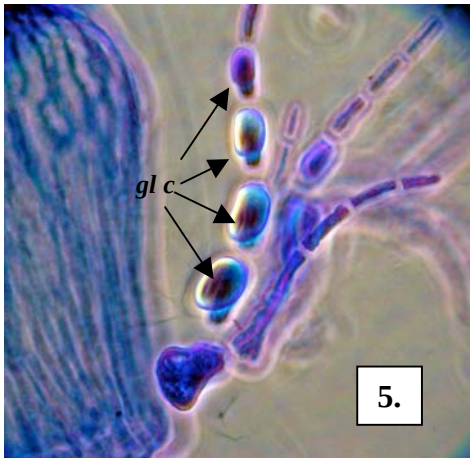




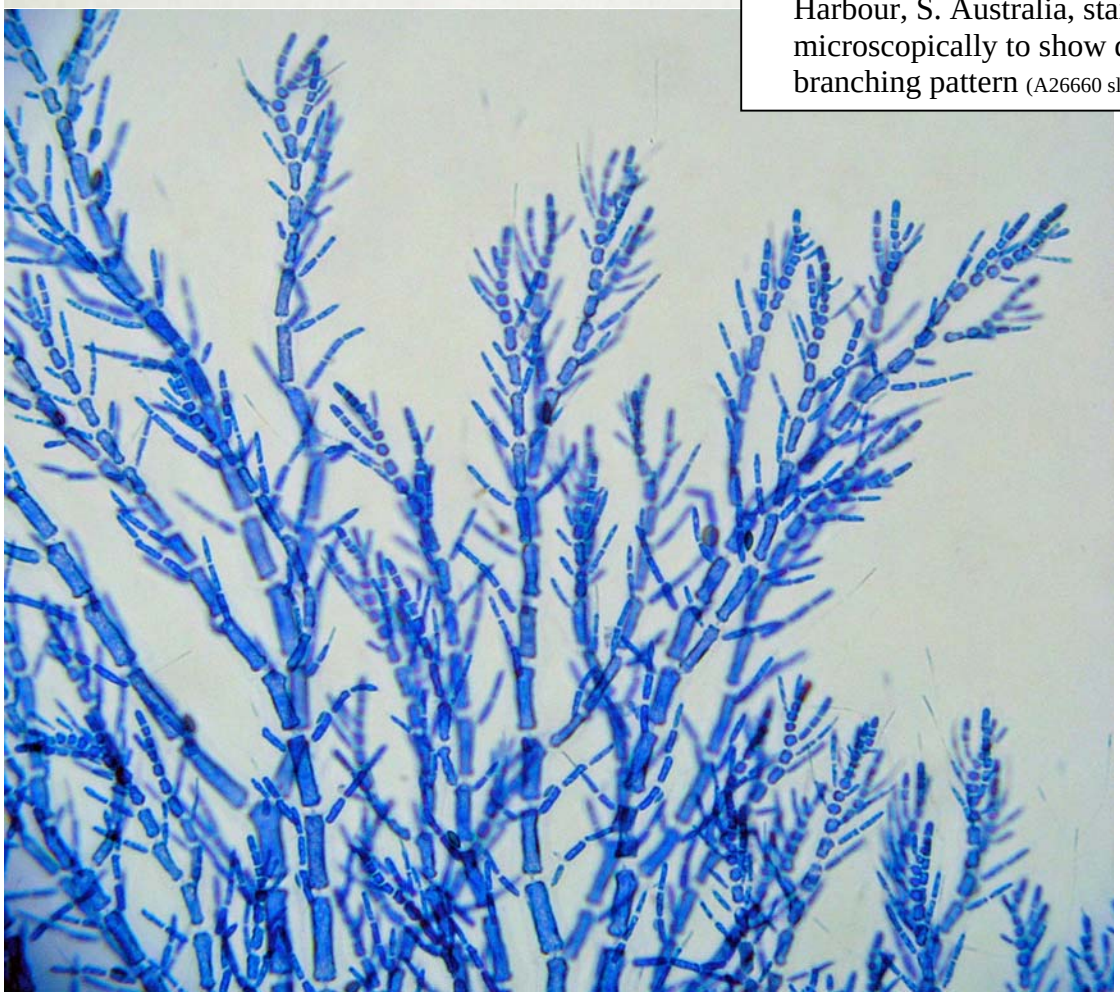
Antithamnionella glandifera stained blue and viewed microscopically at different magnifications

1. mature main branches with branched whorl branchlets (*wh br*) bearing gland cells (*gl c*) (A26660 slide 1334)
2. numerous gland cells (A26660 slide 4052)
3. naked gonimolobes (*go l*) (A59025 slide 5886)
4. mature whorl branchlets of mature filaments (A59025 slide 5886)
5. surface view of a string of gland cells overlying cells of a whorl branchlet (A26660 slide 1334)

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

"Algae Revealed" R N Baldock, S Australian State Herbarium, January 2007, additions May 2007

6. *Antithamnionella glandifera* E M Wollaston**,** A46623**,** from 20km NSW of Outer Harbour, S Australia, 22-25m deep, on old shells
7. specimen trawled from 22m deep off Outer Harbour, S. Australia, stained blue and viewed microscopically to show details of the branching pattern (A26660 slide 4052)



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