Antithamnion uniramosum
Athanasiadis

A SPECIES WITH FEW RECORDS

45.800.24

filament

MICRO PLANT

in 2 rows

Techniques needed and plant shape

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

***Descriptive name** tiny red threads

Features plants of microscopic, naked (ecorticate) horizontal (prostrate) threads, producing upright branches about 7mm tall

Special requirements

1. view microscopically to find
   - main threads (axes) with side branches (whorl branchlets), of 8-10 elongate cells occurring ***singly*** near the plant tips, in ***opposite pairs*** from ***each*** axial cell
   - ***opposite pairs of single cells*** ending in long hairs arising from ***each*** whorl branchlet cell
   - bright glands lying along ***2-celled branches*** on the whorl branchlets
2. tetrasporangia on a small ***stalk cell*** (pedicel) divided in a cross pattern (cruciate) or with 2 opposite pairs of spores (decussate pattern)

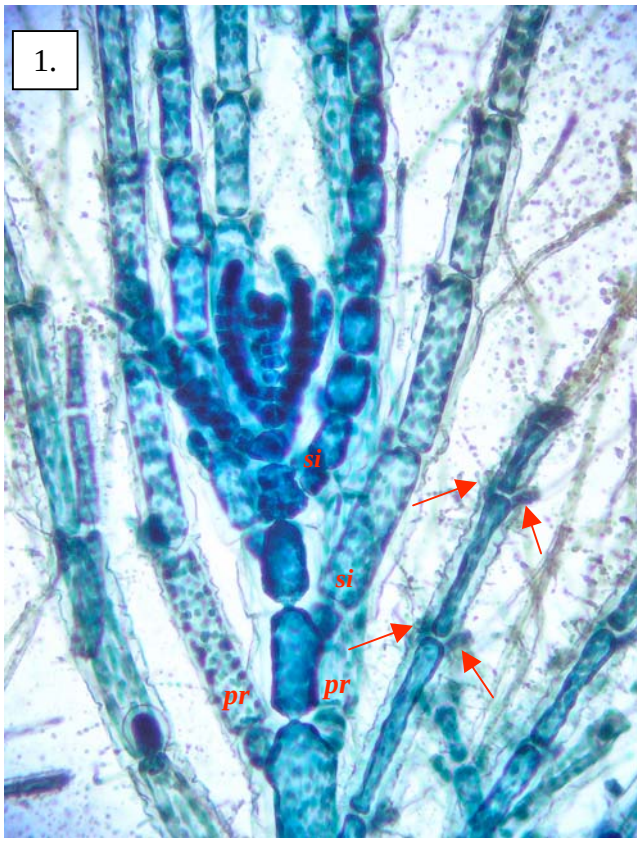
Occurrences only known from a drift specimen, Arno Bay, S Australia.

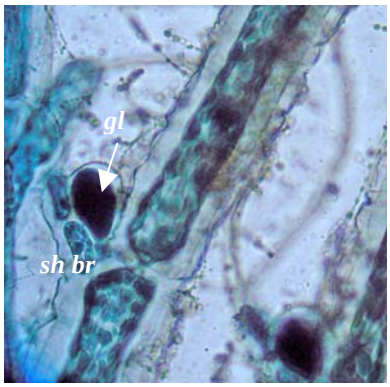
Usual Habitat unknown

Similar Species *Antithamnion cruciatum* but that species is densely branched, cells are wider and shorter, and whorl branchlets are forked, paired single cells ***absent***

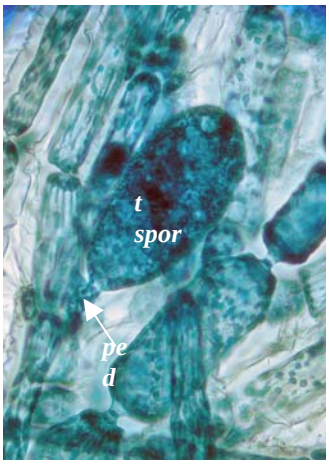
Description in the Benthic Flora Part IIIC, page114, and fig. 50

Details of Anatomy





2.

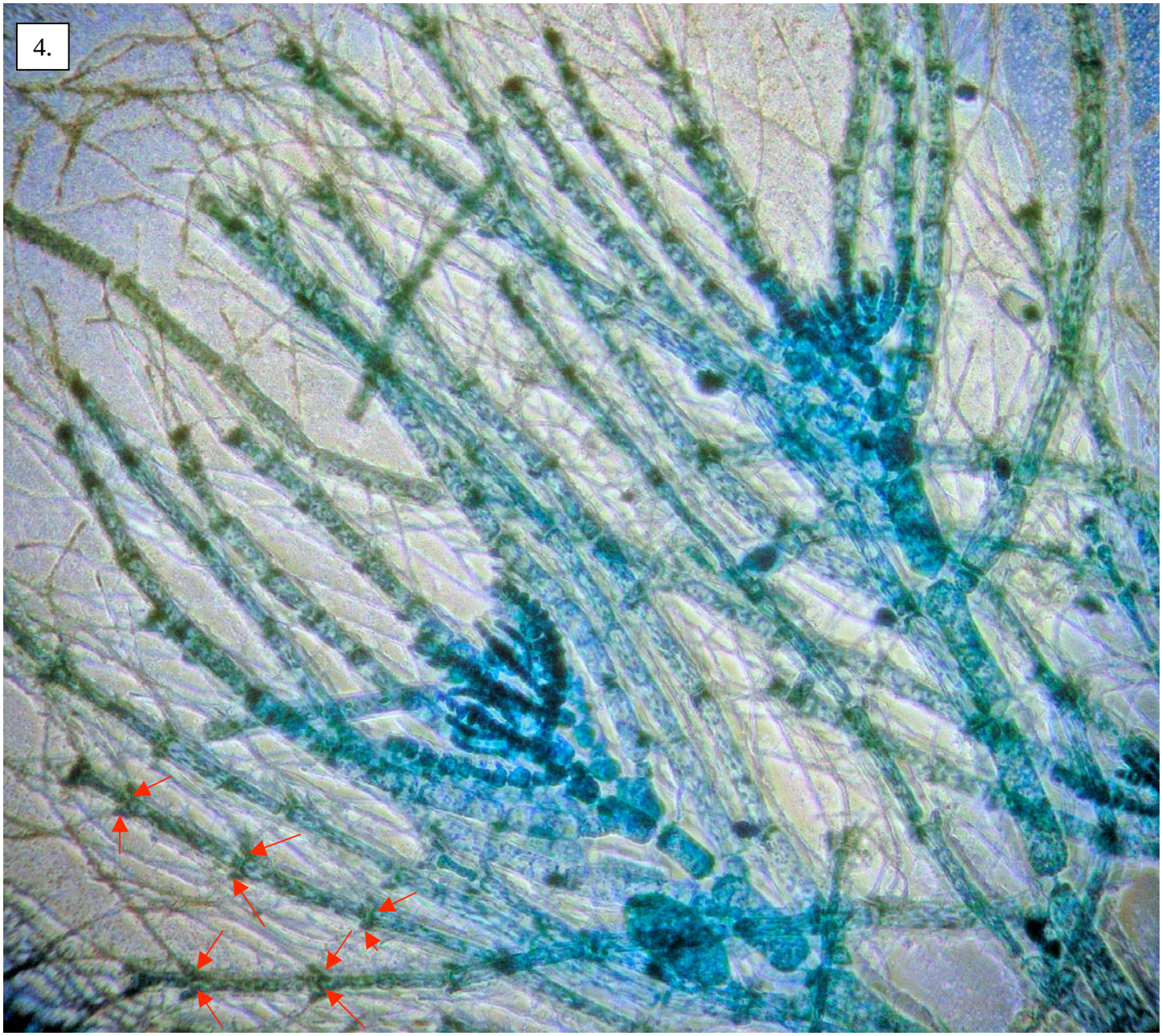


3.

Antithamnion uniramosum (A67213 slide 16615) stained blue and viewed microscopically showing

1. single (*si*) and opposite pairs (*pr*) of side branches (whorl branchlets), and paired single cells (arrowed) arising from whorl branchlets
2. gland (*gl*) lying along the 2 cells of a short branch (*sh br*), a characteristic of the genus *Antithamnion*
3. young, undivided tetrasporangium (*t spor*) on a pedicel (*ped*) near the base of a whorl branchlet

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



Antithamnion uniramosum
Athanasiadis (A67213 slide 16615) stained blue and viewed microscopically

4. branching pattern and numerous hairs, opposite pairs of single cells (arrowed) just visible on the whorl branchlets
5. detail of a whorl branchlet. Opposite pairs, of single cells (pr_1, pr_2), ending in colourless hairs (*ha*) on each cell of the whorl branchlet, characteristic of this species, can be seen

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