Phitymophora amansioides
(Sonder) Womersley

45.880

Techniques needed and shape



Classification Division: Rhodophyta; Family: Delesseriaceae; Tribe: Delesserioideae
Group: Hypoglossum

***Descriptive name** bladelet Film-plant

Features

plants medium to dark red, 50-100mm tall, ***short*** basal stalks present, branches blade-like, almost transparent, 10-80mm long, 2-5mm wide; numerous ***small*** paddle-shaped ***bladelets*** 1-2mm long arise from the mid-lines of both sides of the blades

Special requirements

view cell details microscopically (best seen at the tips of mid-line bladelets) to find

- at tips: inverted hemispherical apical cells producing a string (filament) of cells, each cell of which is flanked by 4 (pericentral) cells of equal size, generating arching rows of cells increasing the blade width; filament structure is soon obliterated by development of further thickening (corticating) cells
- ***inconspicuous*** microscopic veins
- irregularly arranged surface cells, inner large cells, the mid-line thin filament

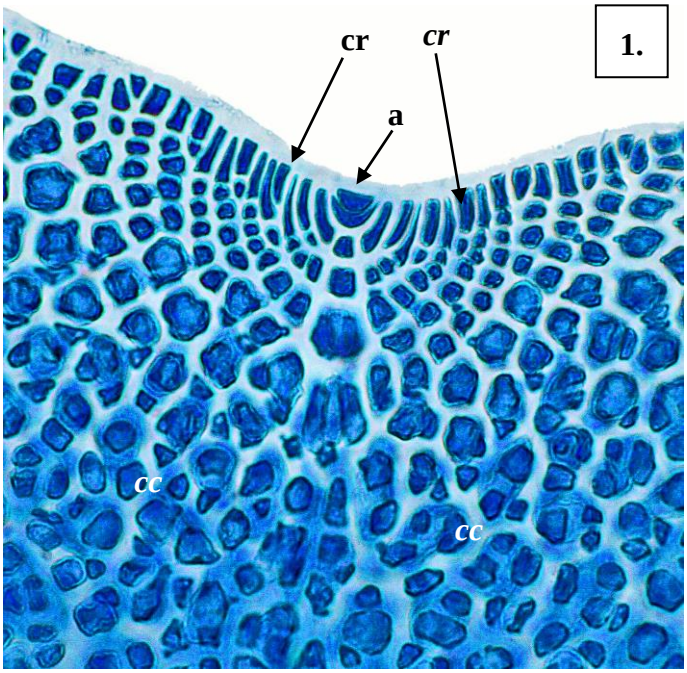
Occurrences from West Coast S Australia to southern NSW

Usual Habitat in shallow water, often on the seagrass *Amphibolis*

Similar Species *Chauviniella*, but this has a long basal stalk; also, *Phitymophora hypoglossum* but this has broader blades, a more rubbery texture, and obvious veins

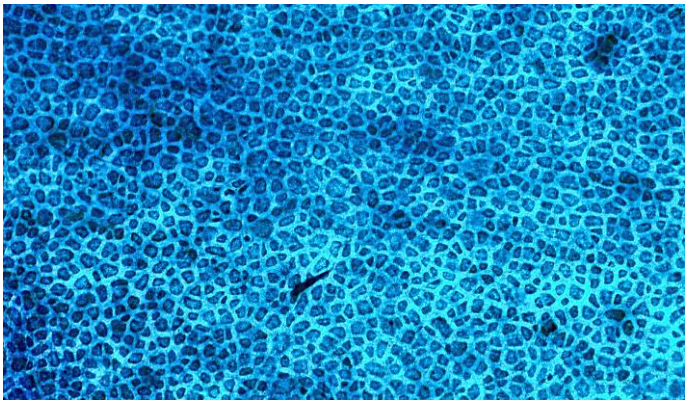
Description in the Benthic Flora Part IIID , page 63-65

Details of Anatomy

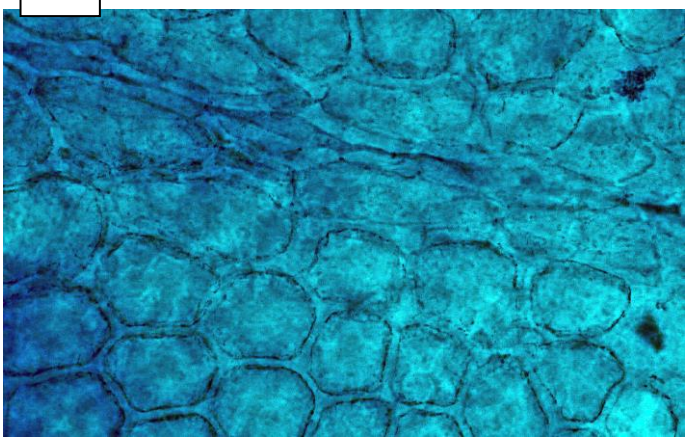


1.

2.1



2.2



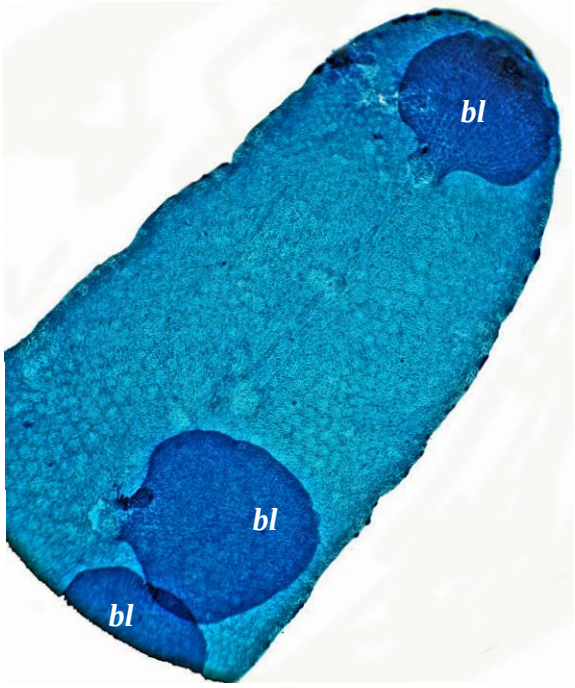
Phitymophora amansioides stained blue and viewed microscopically:

1. bladelet tip (slide 17712): apical cell (***a***), inconspicuous vein, arching cells rows (***cr***); corticating cells (***cc***)
2. surface views of bladelet cells at 2 different focus depths (slide 9840):
   2.1 irregularly arranged surface cells
   2.2 innermost large cells and inconspicuous vein cells in the mid-line of the bladelet

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

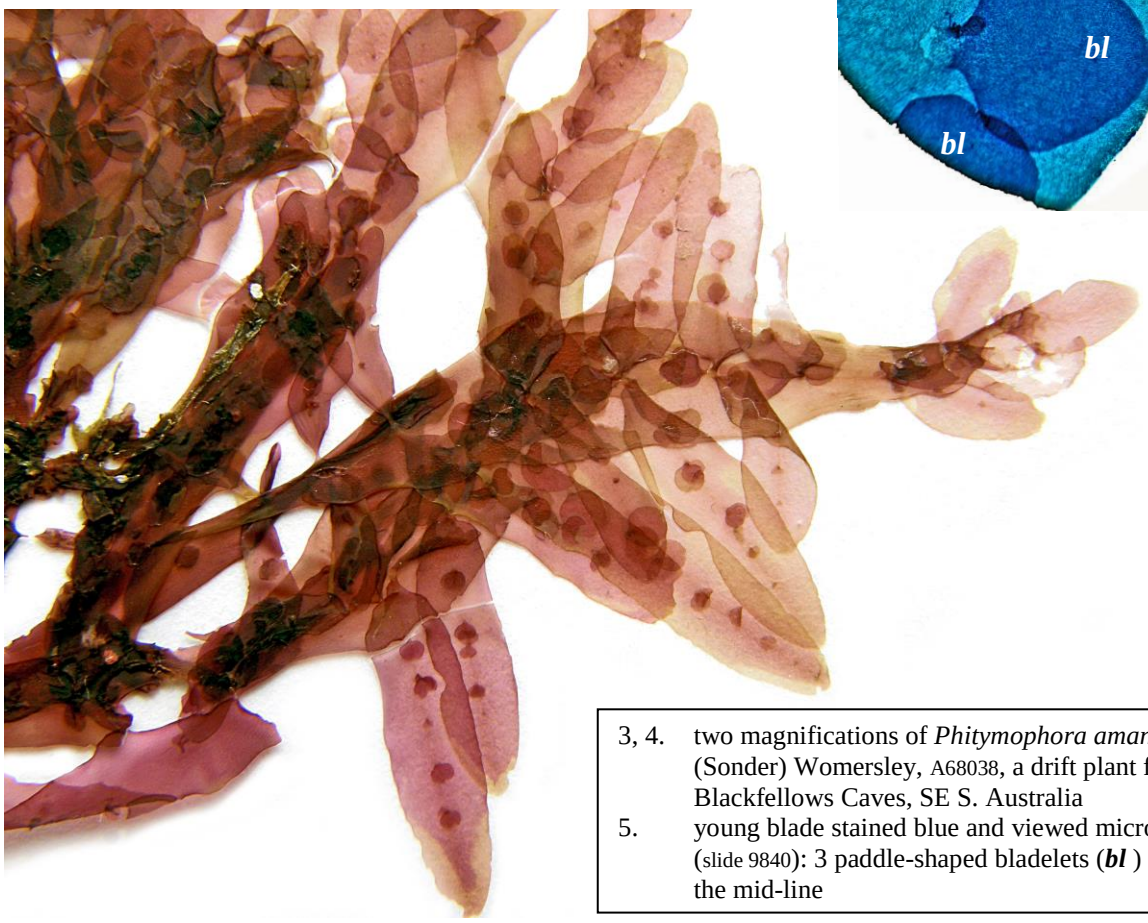
"Algae revealed", R N Baldock, State Herbarium, S Australia, March 2003; additions August 2007; revised July 2014

3.



4.

5.



3, 4. two magnifications of *Phitymophora amansioides* (Sonder) Womersley, A68038, a drift plant from Blackfellows Caves, SE S. Australia

5. young blade stained blue and viewed microscopically (slide 9840): 3 paddle-shaped bladelets (***bl***) arising from the mid-line

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