Phitymophora hypoglossum
(J. Agardh) Womersley & L.E.Phillips

A SPECIES WITH FEW RECORDS

45.880

Techniques needed and shape

MACRO PLANT

foliose

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

***Descriptive name** narrow red strips; false *Lenormandia*

Features plants dark red, 100-250mm tall, of flat, narrow blades 3-6mm wide, with prominent central mid-ribs, smaller strips arising from the midribs on both sides of the blades

Special requirements view blades microscopically to find:

- near blade tips: single apical cells producing midline strings (filaments) of cells, each cell of which is flanked by 4 (pericentral) cells, two opposite ones of which generate ***2-3*** spreading rows of smaller cells increasing the width of the blade (the other 2 remaining obscure
- in mature blades near the midline: underlying ***large cells*** showing through smaller, ***irregular*** surface cells.
- in cross sections: a core of large cells and 1-2 rows of outer small cells

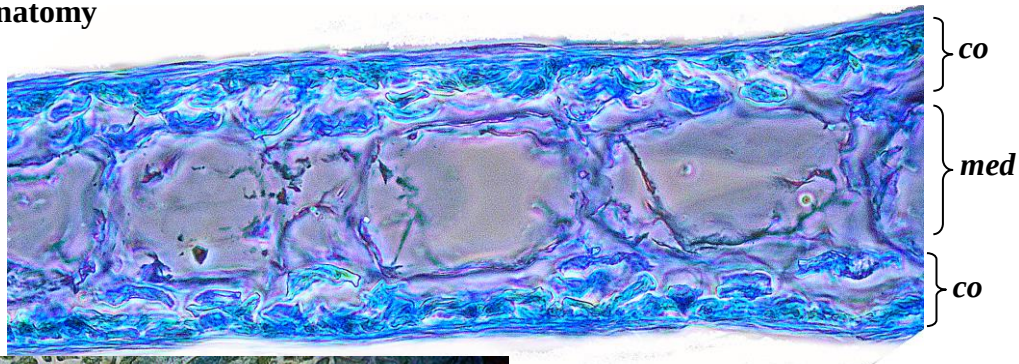
Occurrences known from Geographe Bay, W Australia and further north at Hamelin Bay

Similar Species this species was separated from *Lenormandia*, which it superficially resembles, on the basis of apical cell growth. It is more robust than *Phitymophora amansioides*

Description in the Benthic Flora Part IIID, pages 65-67

Details of Anatomy

1.



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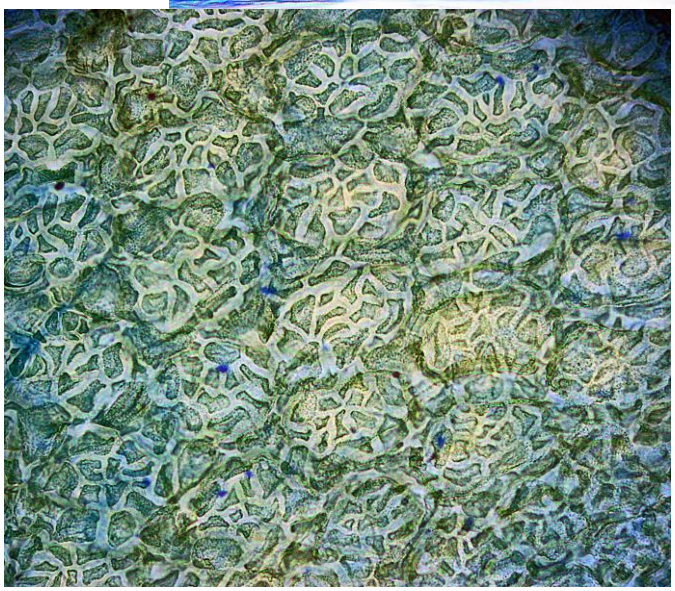

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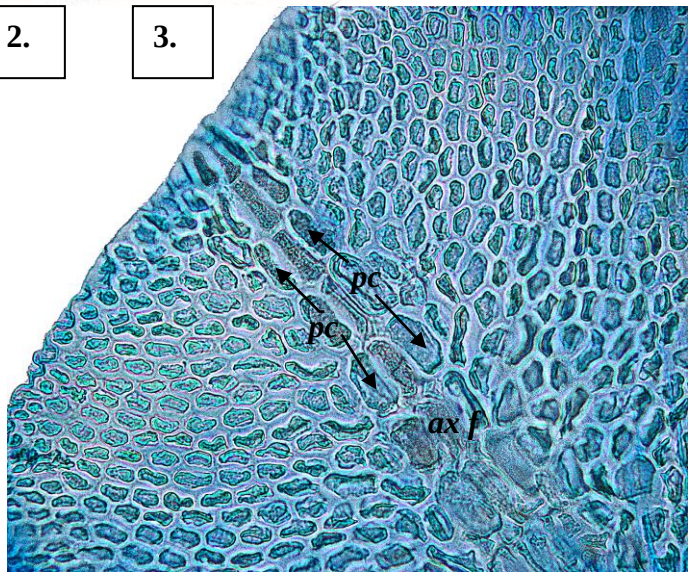

Different magnifications of *Phitymophora hypoglossum* (A18278), stained blue and viewed microscopically:
1. cross section of a blade (slide 18737): core of large cells (medulla, ***med***); rows of small, irregular outer (cortical) cells (***co***)
2. surface view of cells, (slide 18736): underlying large cells and irregular, smaller overlaying cells
3. surface view at the tip of a blade, (slide 18735): midline filament (***ax f***), pairs of flanking (pericentral) cells (***pc***) generating spreading rows of cells in 2 or 3 ranks

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

"Algae revealed", R N Baldock, State Herbarium, S Australia; October 2005; revised July 2014

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