Nitophyllum pulchellum Harvey

A SPECIES WITH FEW RECORDS

45.880

MACRO PLANT

foliose

Techniques needed and shape

Classification Phylum: Rhodophyta; Order: Ceramiales; Family: Delesseriaceae
Tribe: Nitophylloideae; Group: Nitophyllum

***Descriptive name** broad-fronded red Film-plant

Features plants red, 30-50mm tall, of flat, ***filmy*** blades 3-6mm broad, ***wavy*** or crinkled at edges, teeth ***absent***; branching in one ***flat*** surface irregularly from blade ***edges***

Special requirements view plants microscopically to find:

- growth occurs by divisions of cells along the ***margins*** of blades, microscopic veins ***absent***; blades generally ***3-layered*** but many-layered near the plant base
- in sporangial plants, tetrasporangial patches (sori) are ***rounded*** and ***scattered***

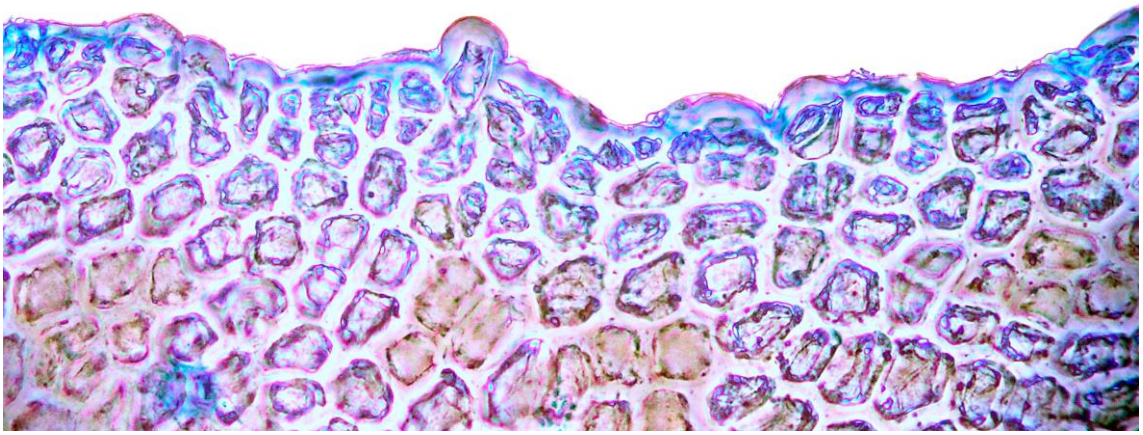
Occurrences known only from a pressed tetrasporangial specimen collected at King George Sound, in the 1850's and at Ocean Reef Marina, Perth, W. Australia in 1980

Similar Species details of female procarps and carposporangia are required to definitely place this species into the genus *Nitophyllum*. It is similar to *Haraldiophyllum nottii* but that species does not have crinkled margins

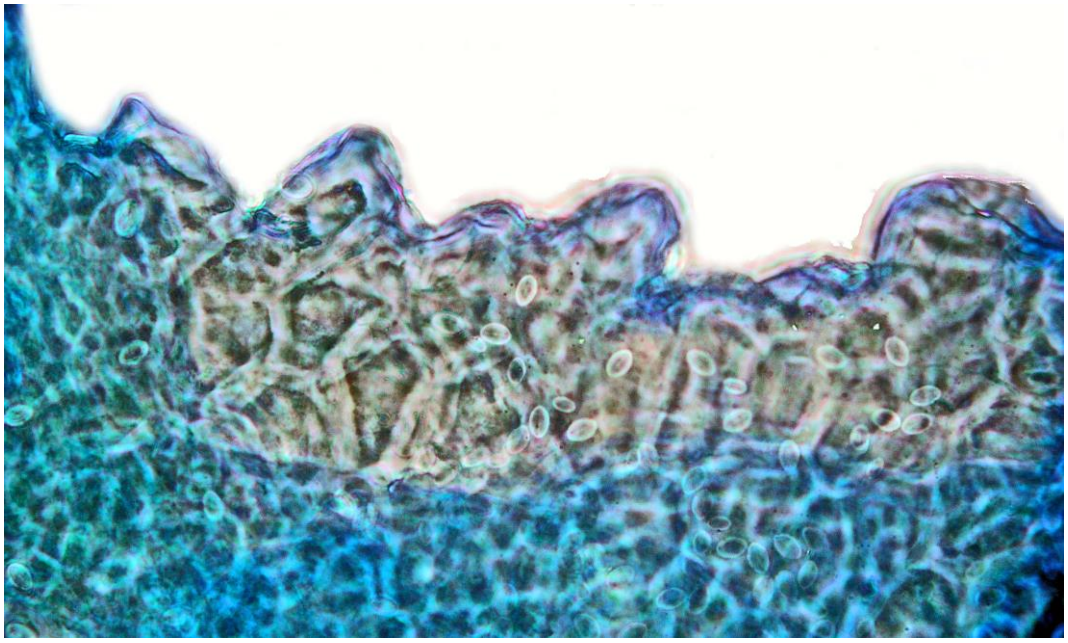
Description in the Benthic Flora Part IIID, pages 124-125

Details of Anatomy

1.



2.



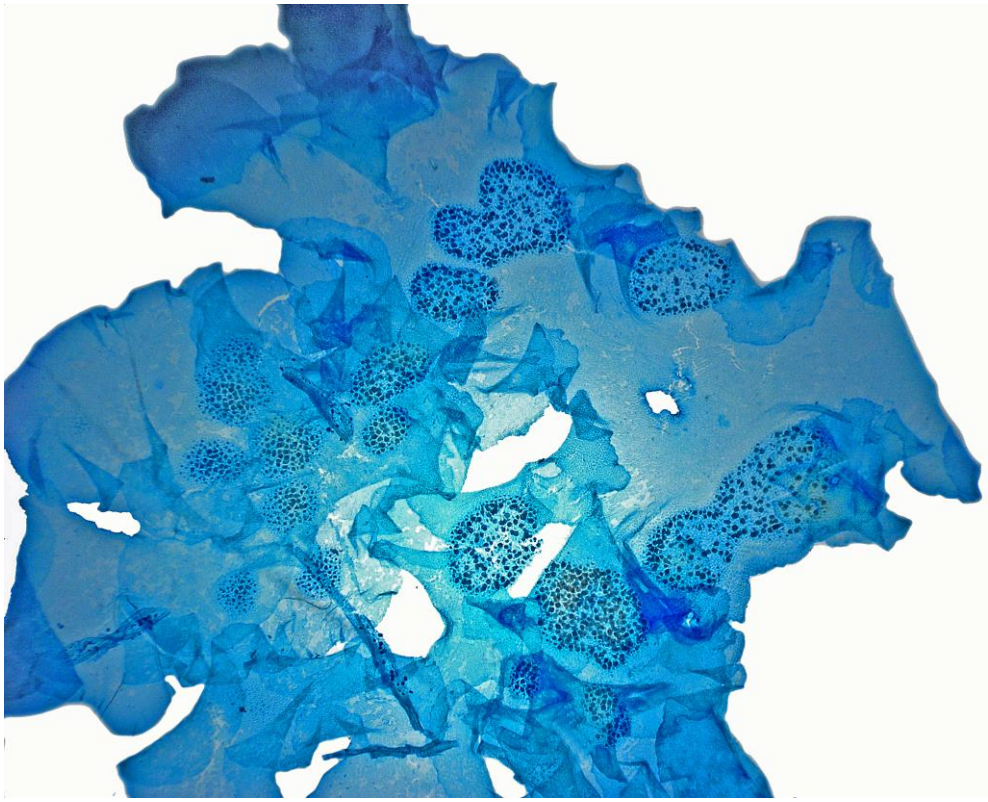
Nitophyllum pulchellum stained blue and viewed microscopically:
1. from Ocean Reef Marina, W. Australia, showing the margin of dividing cells (A68279, slide 18282)
2. from a pressed specimen of Harvey's, with a crimped or crenulate margin (A18302, slide 14175)

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

"Algae revealed", R N Baldock, State Herbarium S Australia, November 2005; edited April 2014

3.

4.



Nitophyllum pulchellum Harvey:

3. from Ocean Reef Marina, W. Australia (A68279)
4. *Nitophyllum pulchellum*, stained blue and viewed microscopically, showing the rounded, scattered patches (sori) of tetrasporangia (slide 18282)

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"Algae revealed", R N Baldock, State Herbarium S Australia, November 2005; edited April 2014