Caloglossa ogasawaraensis Okamura

A SPECIES WITH FEW RECORDS

AN INTRODUCED OR ADVENTIVE SPECIES

45.880

micro-plant filament mat plant

Techniques needed and shape

Classification Phylum: Rhodophyta; Order: Ceramiales; Family: Delesseriaceae
Goup: Delesserioideae

***Descriptive name** mangrove mat

Features plants red-brown, forming loose, entangled mats 5-10 mm wide of thread-like blades ***attached*** to Southern mangrove ***pneumatophores*** or nearby mud

Special requirements view individual, thread-like blades microscopically to find

- ***flat***, narrow blades about ***0.2mm*** wide, branching (at ***nodes***) every 1-4 mm apart, attached by single-celled ***rhizoids*** from the nodes
- blades ending in single ***dome-shaped*** apical cells producing single ***central rows*** of (axial) cells, and ***4*** flanking (***pericentral***) cells. two of which each produce 3 more rows of cells resulting in flat blades with ***5-9 cell rows*** visible in surface view

Occurrences originally from Bonin I., Japan. In southern Australia, known only from Barker Inlet and Garden I., Port Adelaide, S. Australia, possibly more widespread but unrecognised

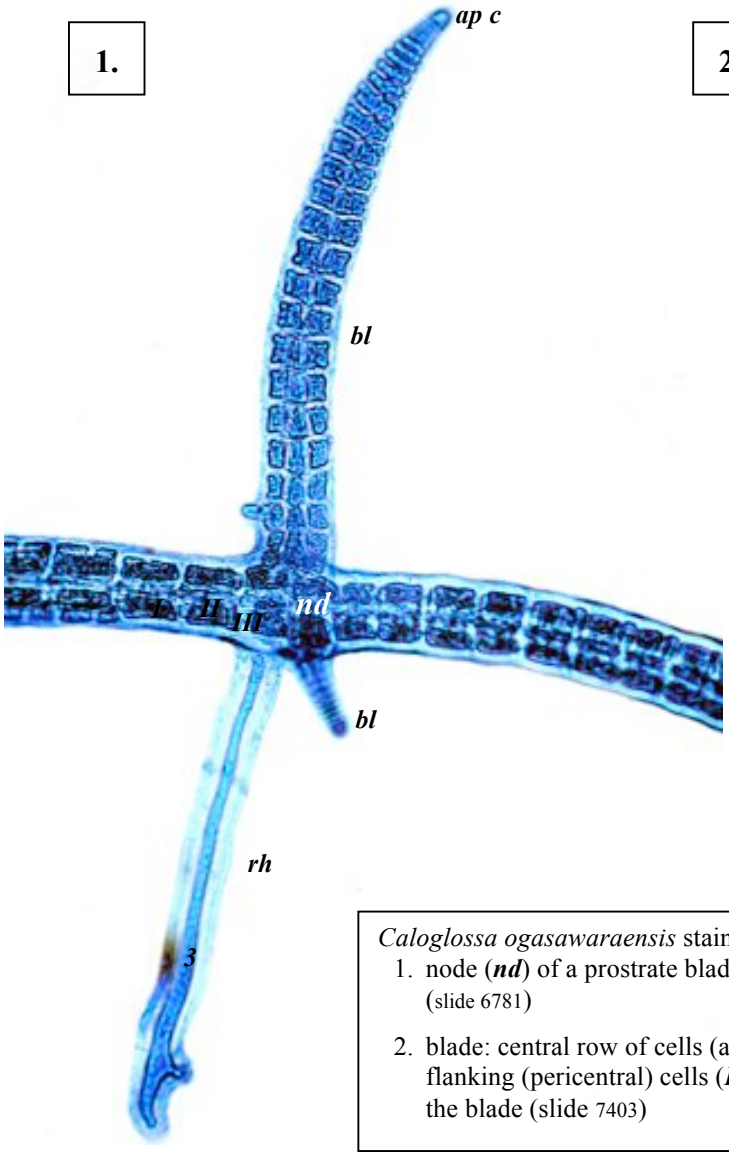
Usual Habitat in warm water from a power station outlet at Pt Adelaide, possibly an introduced species

Similar Species *Caloglossa lepreurii*, but that species has blades 1-2 mm wide, constricted where branches arise (nodes)

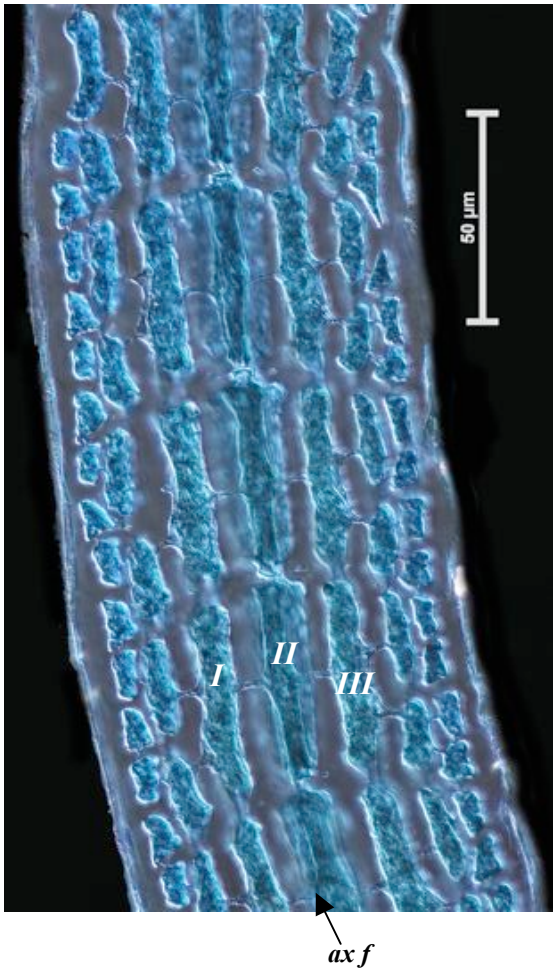
Description in the Benthic Flora Part IIID, pages 25-26

Details of Anatomy

1.



2.

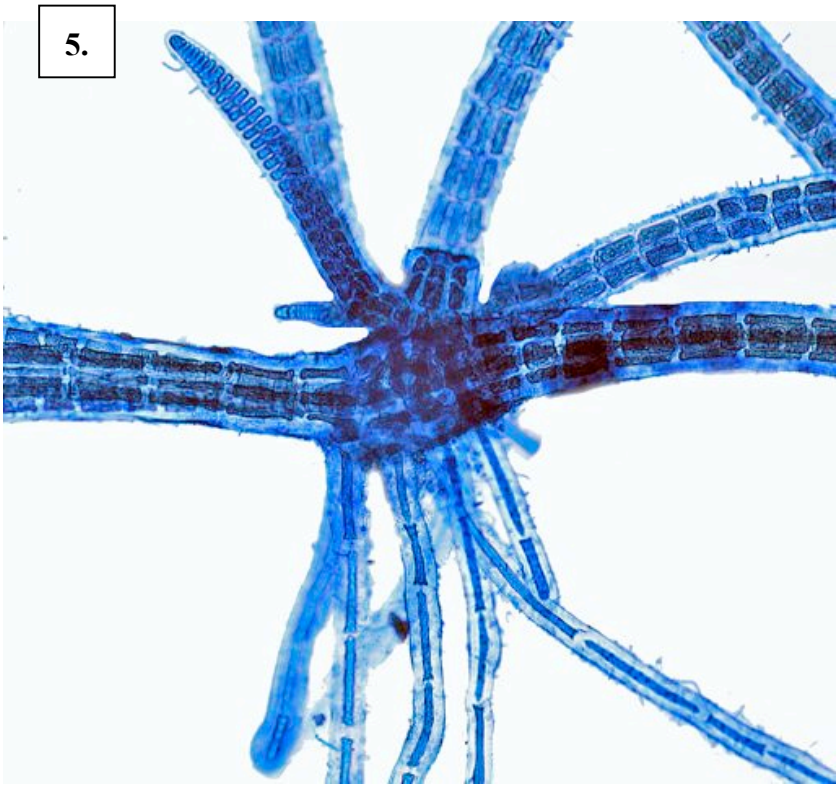


Caloglossa ogasawaraensis stained blue and viewed microscopically

1. node (***nd***) of a prostrate blade, blades (***bl***), domed apical cell (***ap c***), rhizoid (***rh***) (slide 6781)
2. blade: central row of cells (axial filament, ***ax f***, partly obscured), three of four flanking (pericentral) cells (***I, II, III***) in view, total of 7 rows of cells in view across the blade (slide 7403)

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

"Algae revealed", R N Baldock, State Herbarium S Australia, March 2003, modified October 2005; edited May 2014



Caloglossa ogasawaraensis Okamura,
3, 4. from mangrove pneumatophores in the mid intertidal, Garden I., Port Adelaide, S. Australia (slide 68623)
5. stained blue and viewed microscopically: bunch of flat blades and rhizoids produced from a node (slide 6781)

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