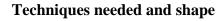
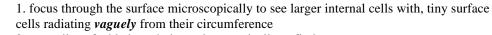
Gloiophyllis barkeriae (Harvey) J Agardh



Classification *Descriptive name Features

Occurrences **Usual Habitat** Similar Species

Description in the Benthic FloraPart IIIA, pages 427-431 **Special Requirements**



MACRO

PLANT

plants are red to red-brown, 100-400mm tall, jelly textured, flat-branched with forked

Rhodophyllis and Craspedocarpus but the surface rings (rosettes) of cells are not apparent

Phylum: Rhodophyta; Order: Gigartinales; Family: Cystocloniaceae

2. cut a slice of a blade and view microscopically to find:

flat blades sometimes edged with many narrower blades

in Gloiophyllis, the fronds are wider, thicker and more jelly-like.

jelly blades

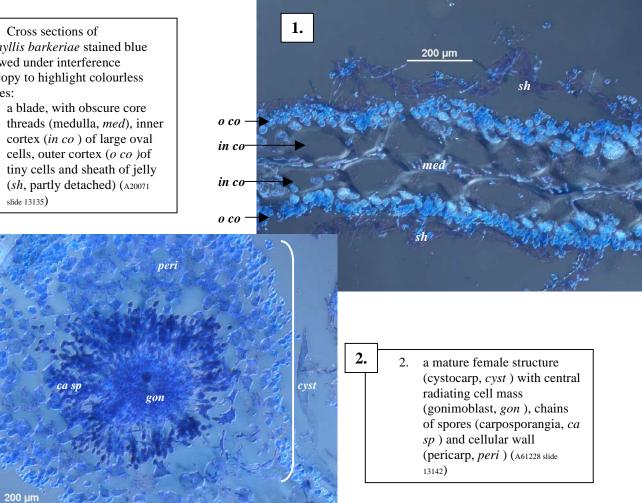
a deep water species (25m)

lower blades are 10-30mm wide

near Elliston, S Australia to S Victoria

1.

- obscure, narrow central strands representing the core or medulla
- the flanking, outer or cortex layers each of a row of *inner, large* oval cells and outermost tiny cells
- 3. find female plants with small, protruding, spherical swellings *scattered* on the fronds. Cut a cross section if possible to view
 - central masses of cells and chains of sporangia spreading outwards
 - a *distinct wall* of cells (pericarp) but *no* opening (ostiole)
- 4. if possible, find *large*, tetrasporangia scattered near the surface, divided across into four sporangia (zonate)



* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, October 2008

45.540



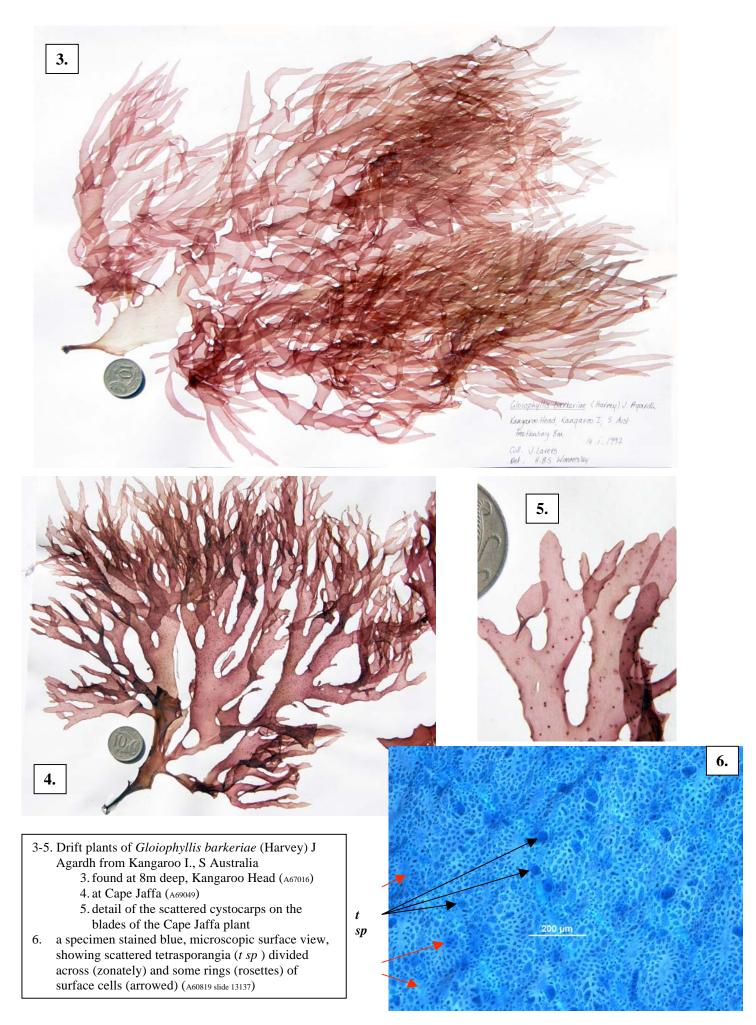




Details of Anatomy

1, 2. Gloiophyllis barkeriae stained blue and viewed under interference microscopy to highlight colourless structures:

1. a blade, with obscure core



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