(Turner) Gaillon

Techniques needed and shape

MICRO PLANT

Classification

*Descriptive name

Features

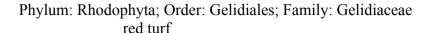
Occurrences

Special requirements





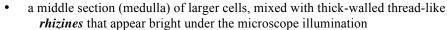
Diagnosis can be difficult



- 1. plants are dark red-brown, bleaching to yellow, forming dense turfs about 20mm high
- 2. main branches are *thin*, *even* in thickness, about 200µm wide cylindrical or slightly compressed, arising from cylindrical runners
- 3. branching is *irregular*

probably widespread in temperate waters. In southern Australia, from Cape Leeuwin, W Australia to Point Lonsdale, Victoria

- 1. view microscopically
- an actively growing branch, with tips coming to an abrupt point and a single protruding pical cell
- branches regenerating after grazing that are often tufted, with sudden narrowings
- surface cells with thin walls and rounded shapes
- if possible, cut a cross section to view
 - 3-4 layers of small outer (cortical) cells

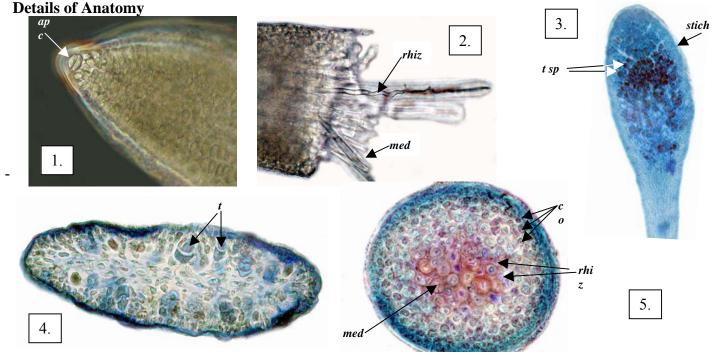


- 3. if possible, find tetrasporangia,
 - scattered in the swollen, flattened ends (stichidia) of small branches
 - stichidia are occasionally branched, or the branch continues growing at the tip
 - tetrasporangia are divided into two pairs of sporangia at right angles (decussate)

Usual Habitat Similar Species

found as dense intertidal turfs in regions of strong wave action to 2m deep Gelidium pusillum but that species is flat-branched with compressed branches

Description in the Benthic Flora Part IIIA, pages 124, 133, 134



Gelidium crinale viewed microscopically

- the tip of a upright branch with a protruding apical cell (ap c) and rounded surface cells (A60836)
- a torn edge of an upright branch with exposed middle (medulla) cells (med) and a thick-walled rhizine (rhiz) (A60836)
- a blue-stained, compressed end of a branch (stichidium, stich), bearing tetrasporangia (t sp) (A3494 slide 10681)
- a cross section of a stichidium (A6739 slide 10680)
- a cross section of an upright branch, showing the 3-4 layers of small outer (cortical) cells (co) and inner (medulla) cells (med) mixed with some very small, (obscure) rhizines (rhiz) (A3494 slide 10681)

^{*} Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, October 2007



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