Rhizoclonium riparium (Roth) Harvey

Techniques needed







MICRO



Classification

Phylum: Chlorophyta; Order: Cladophorales; Family: Cladophoraceae

*Descriptive name

green tidal-flat mats

Features



plants consist of mats or loose, fine entangled threads 50-100mm long, in calm water in the intertidal on sand or mud

Special requirements



- 1. threads light green, unbranched, irregularly curved or twisted
- 2. short rhizoids protrude *irregularly* from threads
- 3. *chloroplasts*, *net-like* with several to many pyrenoids
- 4. cells **box-shaped**, **16-22\mum** wide: L/B dimensions = **1.0-1.5**

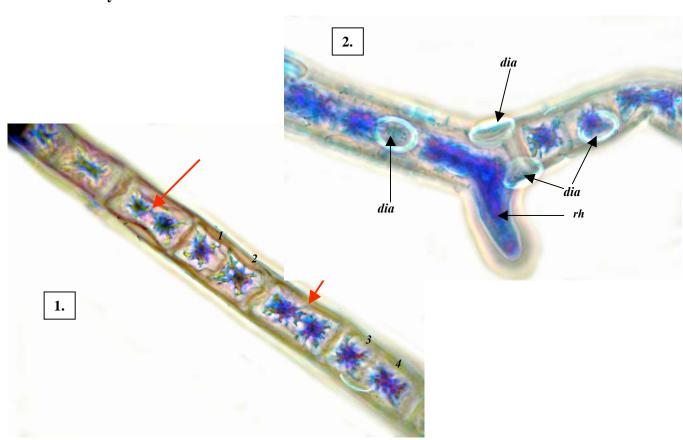
Occurrences

Usual Habitat Similar Species cosmopolitan. In southern Australia, Proper Bay, Pt Lincoln, S Australia to Tasmania

in the intertidal of sheltered waters

other thread-like (filamentous) algae such as *Ulothrix* (but that has a parietal chloroplast — one that partly encircles the inside of the cell wall); and *Cladophora* (but that has branched filaments). *Rhizoclonium curvatum* also has curved threads and rhizoids, but in that species they are in *regular* positions, and cells are *wider*

Description in the Benthic Flora Part I, pages 169, 170 **Details of Anatomy**



Rhizoclonium riparium (A52996 slide 7447) stained blue and viewed microscopically showing

- 1. some cells dividing (arrowed) and others (1,2,3,4) with the more usual box-shape where L/B = 1-1.5
- 2. junction of two curved portions with a rhizoid (rh). (The bright discs are epiphytic diatoms (dia) on the surface of the thread)

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

