Dicranema revolutum (C Agardh) J Agardh

Techniques needed and shape











Classification

Phylum: Rhodophyta; Order: Gigartinales; Family: Dicranemataceae

*Descriptive name

Descriptive name

Features

Occurrences Usual Habitat

Similar Species

wire-weed tufts; §red tumble weed

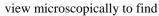
plants form *wiry*, red-brown tufts, 20-50mm long, fading to yellow-brown, on wire weed (*Amphibolis*) stems, with *open forked*, *stiff*, cylindrical, branches about 0.5mm wide, sometimes curling, but only at the very tips

Shark Bay, W Australia to Victoria and Bass Strait grows only on *Amphibolis* stems (an obligate epiphyte)

Dicranema cincinnalis - often the two species grow together. D. revolutum is larger, with straighter branches, except at the very tips, and female cystocarps have openings



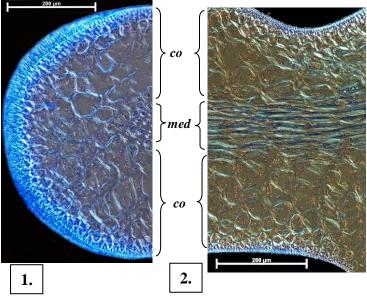
Special Requirements

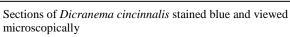


- 1. in cross section: a small core (medulla, *med*) of fine threads and wide outer layer (cortex, *co*) of inner large and outer very small cells
- 2. in female plants: mature female structures (cystocarps) forming swellings near the ends of branches, containing *distinct* openings (ostioles). In longitudinal section: *inwardly pointing* fertile threads (gonimoblast), *single* carposporangia at their tips, *small* fusion cell. Male spermatangia occur in minute packets in the outer layers of the *same plants*.
- 3. in sporangial plants: tetrasporangia, divided across (zonately) scattered near branch tips

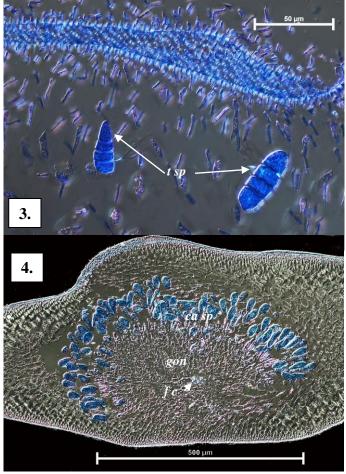








- cross section: small core (medulla, med) of fine threads, wide outer layer (cortex, co) of inner large and outer small cells (slide 12794)
- 2. longitudinal section
- 3. outer cortex of a sporangial plant: tetrasporangia (*t sp*) divided across (zonately) (slide 12794)
- 4. lengthwise section of a cystocarp: obscure, *minute* fusion cell (*f c*), inwardly-pointing, net-like fertile threads (gonimoblast, *gon*) ending in carposporangia (*ca sp*) (slide 3757)



^{*} Descriptive names are inventions to aid identification; §name used in Huisman, J et al, Marine Plants of the Perth Region (2006) "Algae Revealed" R N Baldock, State Herbarium S Australia, May 2008; corrected May 2014

