Chondria hieroglyphica **Gordon-Mills & Womersley**

A SPECIES WITH FEW RECORDS

45.940.77

4.

tubular

Techniques needed and plant shape

Classification

*Descriptive name

Features

Occurrences

Usual Habitat

Similar Species

Special requirements



scribbly Chondria plants dark red, main branches 1-2mm across, radially branched with spreading,

Phylum: Rhodophyta; Order: Ceramiales; Family: Rhodomelaceae

narrow, cylindrical side branches view plants microscopically to find:

- rounded tips and internal rings and lobed *thickenings* (of cell walls) forming a scribbly pattern just visible through the surface layers (cortex)
- cut a cross section of a main branch to view microscopically a central filament, surrounded by 5 flanking (pericentral)cells, intermingled with rhizoids in older branches and distinct outer (cortical) layer
 - short tetrasporangial branches (stichidia), narrow at their bases
 - flask-shaped cystocarps, the results of fertilisation, on short stalks open at the tips, club-shaped carposporangia within

Port Phillip Heads to Walkerville, and Westernport, Victoria. (Male plants unknown.) unknown (drift plants only found)

Chondria capreolis and Ch. bulbosa also have cell wall thickenings but in Ch. hieroglyphica these are more complex, and tetrasporangia are smaller (about 100µm across)

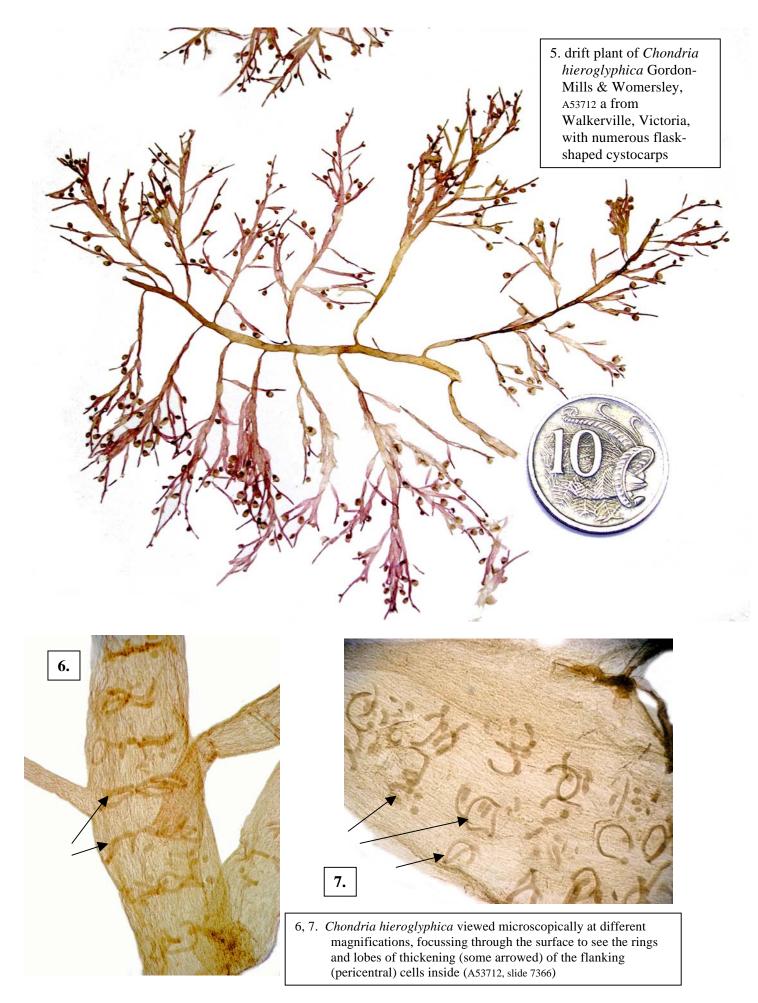
Part IIID, pages 432, 433

Tribe: Chondrieae

Description in the Benthic Flora Details of Anatomy 3. 1. 2. Chondria hieroglyphica viewed microscopically at different magnifications 1. rounded plant tip with cell wall thickenings of internal (pericentral) cells (arrowed) visible through the surface layers (A53712 slide 7798) 2. cross section of a main branch stained blue, showing the central evst filament (*c fil*) surrounded by 5 flanking (pericentral) cells, (pc_{1-5}) with some rhizoids (*rh*) between them, and a distinct outer layer

- (cortex, co) (A53712 slide 7798) 3. tetrasporangial branches (stichidia, *stich*) (A53362 slide 92389)
- female structure produced after fertilisation (cystocarp, *cyst*) showing the opening (ostiole, ost), club-shaped spores (carposporangia, ca sp) and short basal stalk (pedicel, ped) (A53712 slide 7796)

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



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