Polyopes constrictus (Turner) J Agardh

Techniques needed and shape

Classification *Descriptive name **Features**

Occurrences **Usual Habitat Similar Species**

Details of Anatomy

Description in the Benthic Flora Part IIIA, pages, 174, 175-177 **Special Requirements**

MACRO rregularly to forked PLANT (dichotomous)

Phylum: Rhodophyta; Order: Gigartinales; Family: Halymeniaceae

red Wiry-weed

plants dark red-brown to olive-brown, 40-160mm long, gristly; branching in one flat surface, of irregularly forked, narrow, compressed branches 0.5-2.0mm broad forming terminal tufts slightly pinched near tips

South Africa. In Australia, West coast S Australia, around Tasmania to S NSW

moderately common, from shaded shallow water to 20m deep

Polyopes tenuis, but that species has narrower branches, and looser arrangement of microscopic threads in the core of branches. Superficially similar to Gelidium.

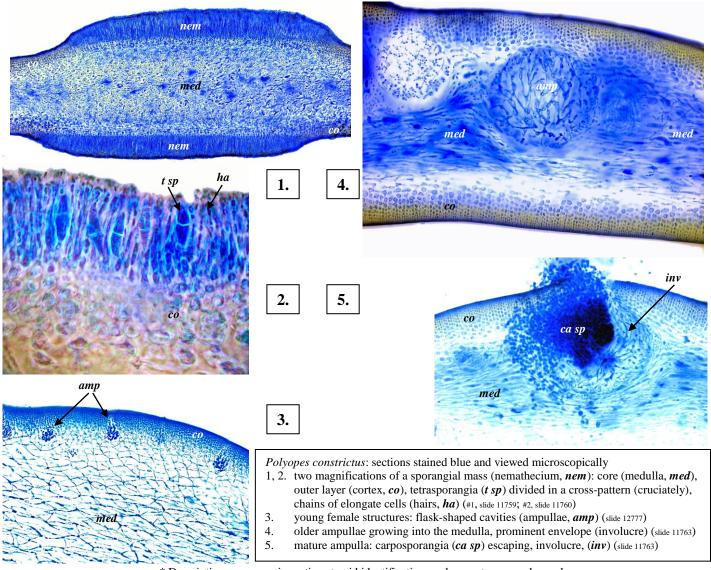
view microscopically to find

in a lengthwise section of a branch: a firm outer layer (cortex) of rows of small cells at right angles to the surface, a wide core (medulla) of numerous compact threads

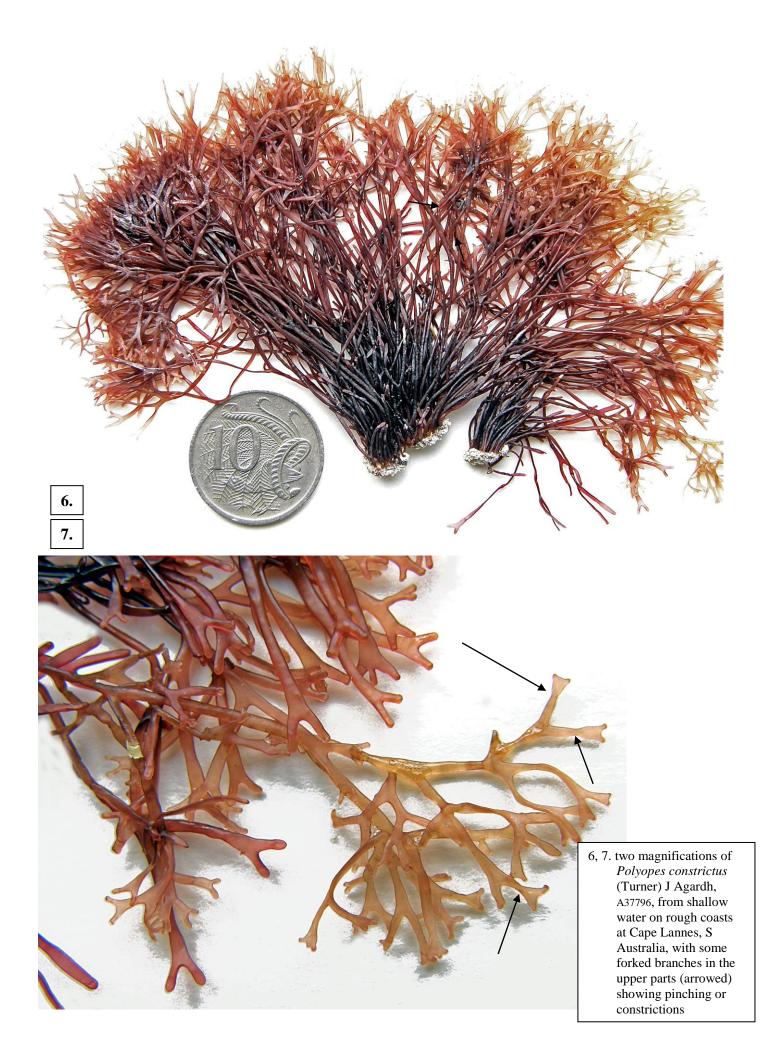


in a lengthwise section of female plants: *initially*, numerous, dense, cell clusters lying in small flask-shaped spaces (ampullae) opening to the surface, in the inner cortex, later developing into large ball-shaped ampullae protruding into the core (medulla), enveloped by a network of threads (involucre), *finally*, dense masses of carposporangia within the ampullae, that escape through the small openings

in sporangial plants: elongate patches (nemathecia) near branch tips which in cross section reveal small, elongate tetrasporangia divided in a cross (cruciate) pattern, mixed with sterile chains of 4-8 elongate cells (hairs or paraphyses)



* Descriptive names are inventions to aid identification, and are not commonly used "Algae revealed" R N Baldock State Herbarium S Australia, May 2008; revised March 2014



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