Techniques needed and shape









Classification

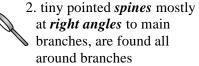
Phylum: Rhodophyta; Order: Gigartinales; Family: Hypneaceae

*Descriptive name

spiny red weed (common name used by Huisman)

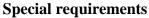
Features

1. plants are light red-brown, bleaching yellowish, 100-200mm tall, with a tangled base and straggling upright branches

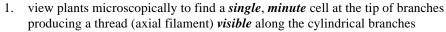


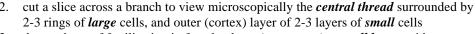
Occurrences

a southern and mainly western species in Australia; records from other countries are problematic







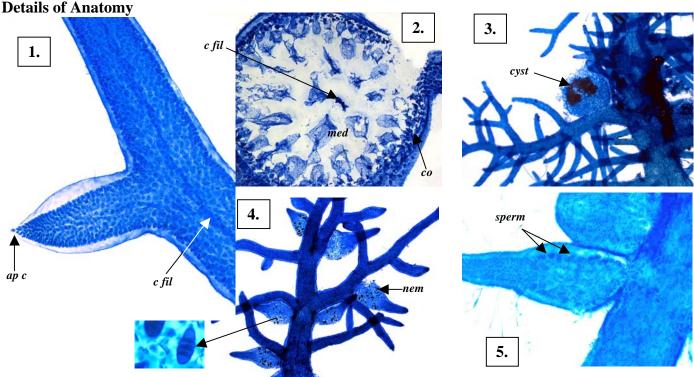


- 3. the products of fertilisation in female plants (cystocarps)are *stalkless* on side branches, *ball-shaped* and without an opening (*no ostiole*)
- 4. male plants produce patches of spermatangia in the outer (cortex) layer near the *swollen* bases of the short, spiny side branches
- 5. sporangial plants have tetrasporangia in the outer (cortex) layer near the *swollen* bases of the short, spiny side branches
- sporangia are cigar-shaped and divided across (zonately) into 4 sporangia

Usual Habitat Similar Species mainly on the seagrass Amphibolis

Hypnea valentiae, but that species has several well defined upright axes and fewer spiny branches which point upwards

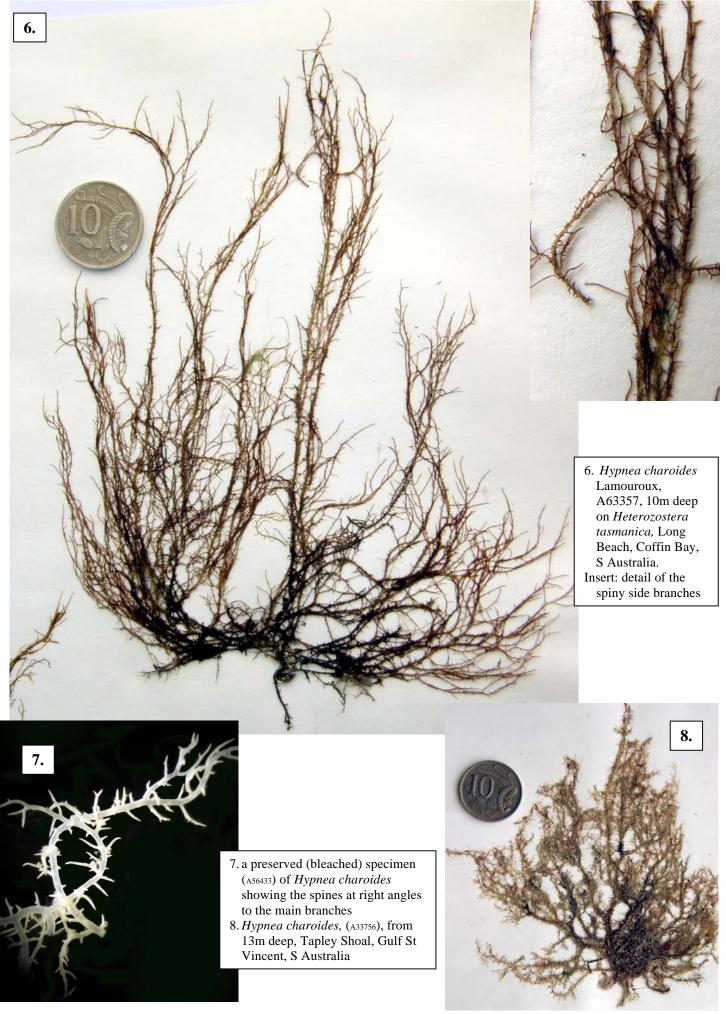
Description in the Benthic Flora Part IIIA, pages 439, 441-443



Hypnea charoides A61582 stained blue and viewed microscopically

- 1. a tip of a branch showing the single apical cell (ap c) and central thread (c fil) visible along the length of the branch (slide 12804)
- 2. a cross section showing the central thread, middle (medulla, med) layer of large and surface (cortex, co) layer of small cells (slide 12806)
- 3. a female plant with numerous spiny side branches at right angles and a stalkless cystocarp (cyst) (slide 12804)
- 4. spiny side branches with swollen bases (nemathecia, *nem*) bearing tetrasporangia. Insert: a much enlarged view of zonately divided tetrasporangia (slide 12806)
- 5. detail of patches of spermatangia (*sperm*) at the swollen bases of spiny side branches (slide 12805)

^{*} Descriptive names are inventions to aid identification, and are not commonly used Prepared December 2007, addition January 2008



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