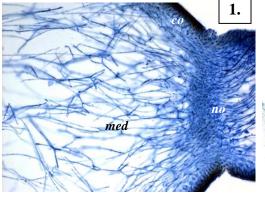
Claviclonium ovatum (Lamouroux) Kraft & Min-Thein

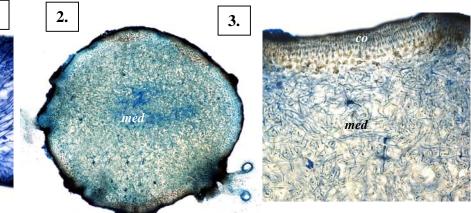
Techniques needed and shape	PLANT ubular parts bead- like
Classification	Phylum: Rhodophyta; Order: Gigartinales; Family: Acrotylaceae
*Descriptive name	bubble weed
Features	 plants are <i>red-brown</i>, 100-200+mm tall, of <i>long</i>, cylindrical main branches (axes) faintly jointed <i>prolific</i>, small, side-branches (ramuli) of 1-3 <i>egg-shaped</i> segments on very <i>narrow</i> bases cluster the main axes
Occurrences	Geraldton, W Australia to E of Eucla, S Australia
Usual Habitat	possibly a reasonably deepwater species with restricted western distribution
Similar Species	a distinctive species
Description in the Benthic Flora Part IIIA, pages 374-376	
Special Requirements	 cut a young segment lengthwise and view microscopically to find a <i>broad</i> core (medulla) filled with dense, <i>loose, interconnecting</i> threads and <i>narrow</i> outer (cortex) layer of equal-sided cells, the inner slightly larger than surface ones cut a cross section of a main branch (axis) to view the core <i>packed</i> with threads and outer layers <i>thickened</i> with outward pointing rows of cells

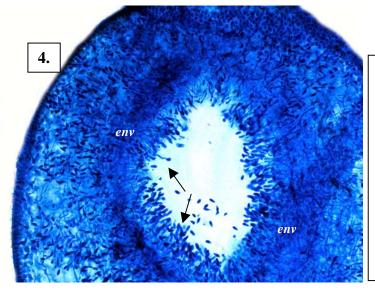
3. find products of fertilisation (cystocarps) *embedded* in the bubble-shaped segments. Cut a cross section to view the *envelope* of threads and branched fertile threads bearing carposporangia at their tips protruding *inwards* into a central cavity

Details of Anatomy



B

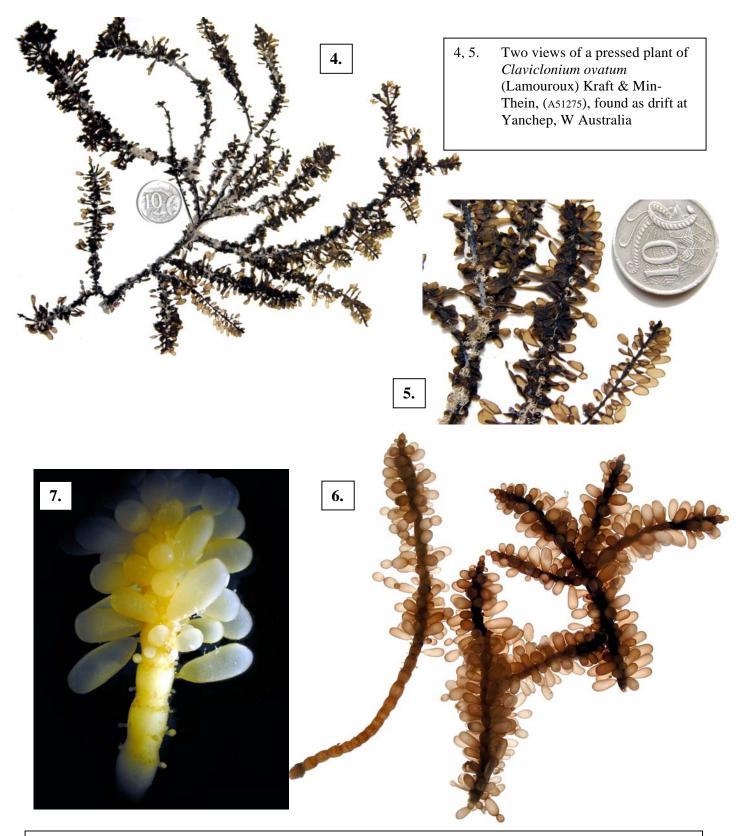




Claviclonium ovatum stained blue and viewed microscopically, showing

- 1. a window cut lengthwise through the pinched connector (node, *no*) between two egg-shaped segments, with wide core (medulla, *med*) of threads, loosely packed except at nodes and compact outer layer (cortex, *co*) (A33615 slide 4869)
- 2, 3. two magnifications of a cross section through a main axis showing the compact mass of core threads and rows of cortex cells (A34228 slide 4865)
- 4 cross section through a segment with an embedded cystocarp showing the envelope of threads (*env*), central cavity and inward directed fertile threads bearing carposporangia (arrowed) (A33615 slide 4866)

* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, October 2008



6, 7. Two views of preserved (bleached) specimens of *Claviclonium ovatum* (A34228) from Eyre, W Australia showing details of the jointed main axes and short side branches of chains of egg-shaped segments