

 2. male and sporangial plants antler-like; mature female plants (cystocarpic) wa

 Occurrences

 Usual Habitat

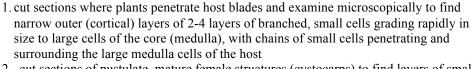
 2. male and sporangial plants antler-like; mature female plants (cystocarpic) wa

 west coast S Australia to Victoria, but may be overlooked and more widespread

 semi-parasitic on *Rhodymenia* sp, possibly specific to *R. australis*

Special requirements

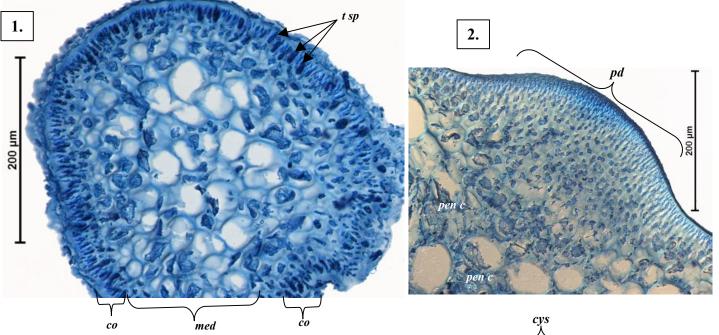




- 2. cut sections of pustulate, mature female structures (cystocarps) to find layers of small cells forming a wall (pericarp), single prominent external opening (ostiole), internally a mass of carposporangia, prominent nutritive cells basally and envelope of threads initially present, but disintegrating
- 3. sporangia scattered in the inner part of the cortex, decussate or cruciate, mixed with elongated cells,

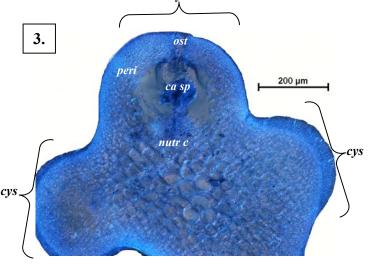


unique Part IIIB, pages 86-89

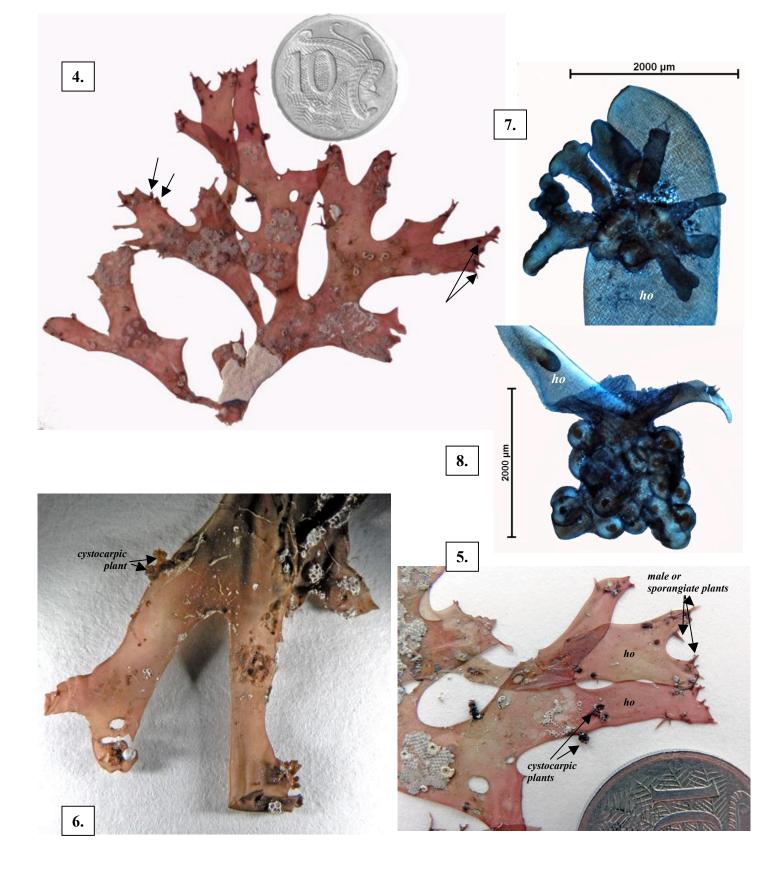


Cross sections of *Rhodymeniocolax austrina* (A44823) stained blue and viewed microscopically

- 1. sporangial branch showing the narrow outer layer (cortex, *co*) of small cells, with scattered tetrasporangia (*t sp*) amongst elongated cortical cells, and core (medulla, *med*) of large cells (slide 15174)
- 2. pad (*pd*) attaching the parasite to the host (*h*) with cells (*pen c*) penetrating those of the host's medulla (slide 15174)
- 3. globose, protruding mature female structures (cystocarps, *cys*) with cellular walls (pericarp, *peri*) one shown punctured by an ostiole (*ost*) and internally a mass of spores (carposporangia, *ca sp*) and basal nutritive tissue (*nutr c*) (slide 15170)



*Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed", R N Baldock, S Australian State Herbarium December 2010



Rhodymeniocolax austrina Womersley

- 4, 5. two magnifications of plants on *Rhodymenia* australis? from Crawfish Rock, Westernport Victoria, some individual plants indicated (A44823)
- 6. magnified view of plants from 26m deep, N Point St Francis I. S Australia (A69697)
- 7, 8. microscopic views of specimens (A44823) removed from hosts and stained blue
 - 7. top view of a single plant near the tip of a *Rhodymenia* blade (host, ho) (slide 15176)
 - 8. side view of a plant with globose cystocarps (A44823 slide 15176)