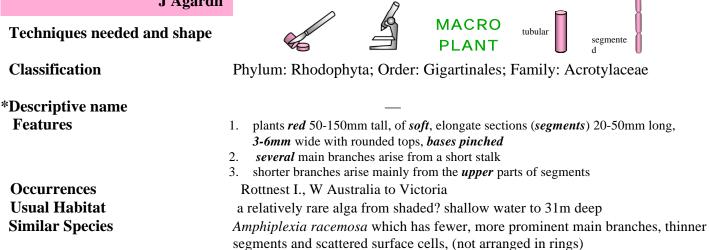
Amphiplexia hymenocladioides J Agardh

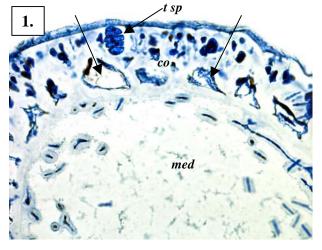


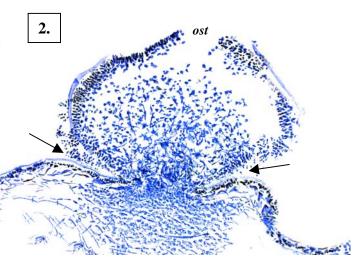
Description in the Benthic Flora Part IIIA, pages 369-372

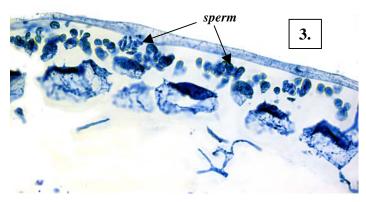
Special Requirements

- 1. view the surface microscopically to see small cells arranged in rings (*rosettes*) around the edges of large, deeper cells
- slice a cross section of a segment and view microscopically to find a *broad* core (medulla) filled with *mucilage* crossed by *loose* threads and narrow outer (cortex) layer of a *single* row of large cells with *small* surface cells arranged around their margins
- 3. find the ball-shaped *protuberant* female cystocarps *pinched* at the base. Slice a cross section of a cystocarp, and view microscopically to find the mass of *threads* producing carposporangia at their tips. Find spermatangia in tiny surface clusters *on the same plant*.
- 4. cut a cross section of a sporangial plant and locate the small cigar-shaped tetrasporangia divided across (zonately) in the outer layer, often with 2 small cortical cells above

Details of Anatomy

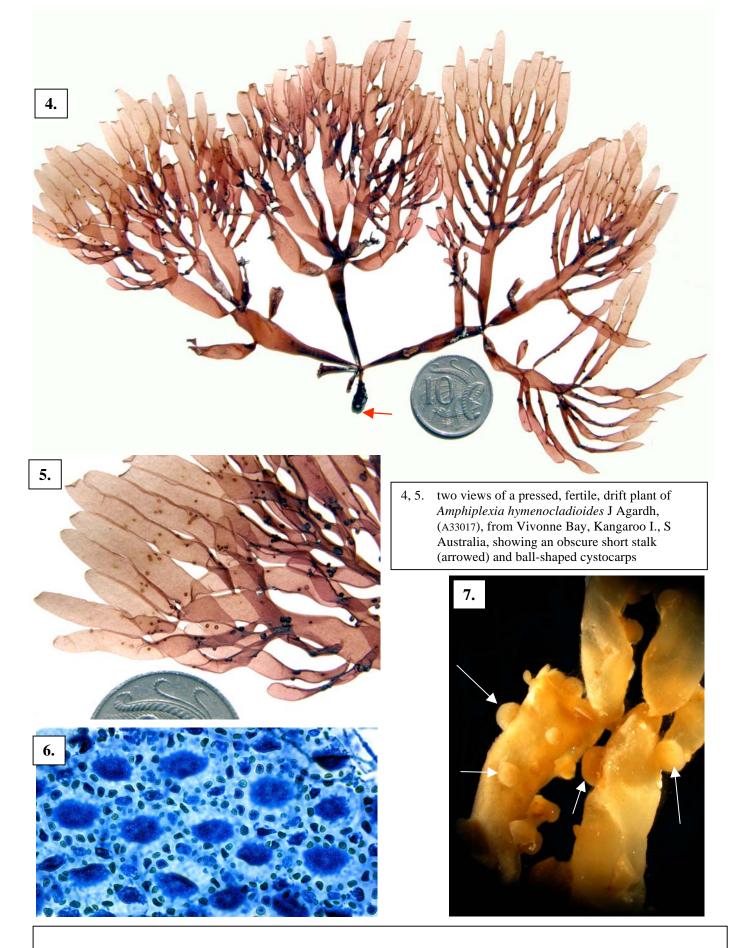






Cross sections of *Amphiplexia hymenocladioides* stained blue and viewed microscopically

- a zonately divided tetrasporangium (*t sp*) in the outer layer (cortex, *co*) consisting of small cells and a single row of large cells (arrowed) with a broad core (medulla, *med*) of mucilage and loose threads (A44750 slide 3794)
- 2. a protuberant cystocarp with pinched base (arrowed) central mass of threads and opening (ostiole, *ost*) (A44750 slide 37924)
- 3. part of the cortex with spermatangial clusters (*sperm*) (A33017 slide 12687)



- 6. a surface view of *Amphiplexia hymenocladioides* stained blue and viewed microscopically showing the distinctive rosettes of small cells around large deeper cells (A33017 slide 12687)
- 7. a preserved (bleached and slightly wrinkled) specimen (A44750) showing protuberant cystocarps (arrowed) and the cylindrical shape of segments narrowed at the base, not always discernible in pressed specimens