Techniques needed and plant shape





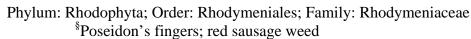






Classification
*Descriptive name
Features

Occurrences Usual Habitat Special requirements



1. plants dark red-brown fading to grey-red, 40-160mm tall, of one to several jelly-filled, sausage shaped sacs arising from a disc-shaped holdfast

2. female structures (cystocarps) form scattered spots on the surface

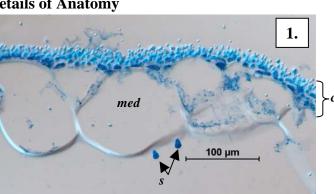
Geraldton W Australia to southern NSW and around Tasmania

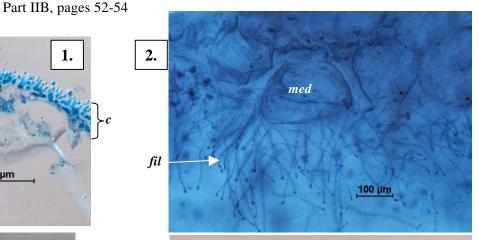
shallow water to 22m deep, on hard surfaces, occasionally on sea grass or other algae

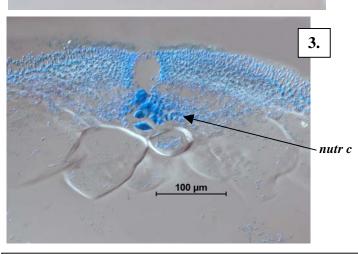
- 1. focus through the surface microscopically to find rings of secretory cells around inner, large, core (medulla) cells and prominent openings (ostioles) of female reproductive parts (cystocarps)
- 2. cut cross sections of the wall of the sac and view microscopically
 - a arrow band, wider in rough water plants, of small outer (cortical) cells
 - narrow inner layer (medulla) of large cells with small, scattered secretory cells protruding into the jelly-filled central core
 - branched threads occasionally growing inwardly from large medulla cells
 - tetrasporangia in patches of thickened cortex, atttached by threads to middle cortical cells, decussately divided
 - mature female structures (cystocarps) only *slightly* protruding, with a single opening (ostiole). Internally, masses of sporangia mixed with threads joined basally to a small pyramid of feeding cells

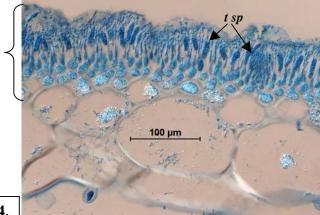
young Webervanbossea tasmanensis plants

Similar Species
Description in the Benthic Flora
Details of Anatomy



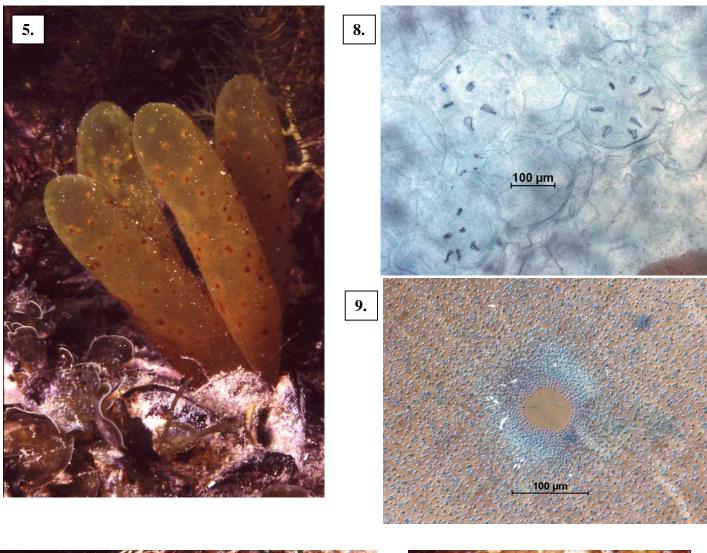






Cross sections of the sac wall of Gloiosaccion brownii stained blue and viewed microscopically

- 1 outer layer (cortex, co) of small cells, large middle (medulla) cells, (med c) with secretory cells (s c) attached (A33000 slide 14225)
- 2. large medulla cells and threads (fil) projecting into the jelly-filled centre of the sac (A22372 slide 14226)
- 3. young female structure (cystocarp) with nutritive cells (nutr c) developing (A52848 slide 10120)
- 4. tetrasporangia (t sp) on threads connected to cells of a thickened cortex (co) (A22372 slide 14229)







Gloiosaccion brownii Harvey from S Australia

- 5-7. underwater photos by D Muirhead:
 - 5. female plant from Normanville,
 - 6, 7 from Stokes Bay
- 8, 9 surface of the sac wall stained blue and viewed microscopically
 - 8. rings of secretory cells around medulla cells (A22372 slide 14226)
 - 9. opening (ostiole) of a cystocarp (A52848 slide 10120)