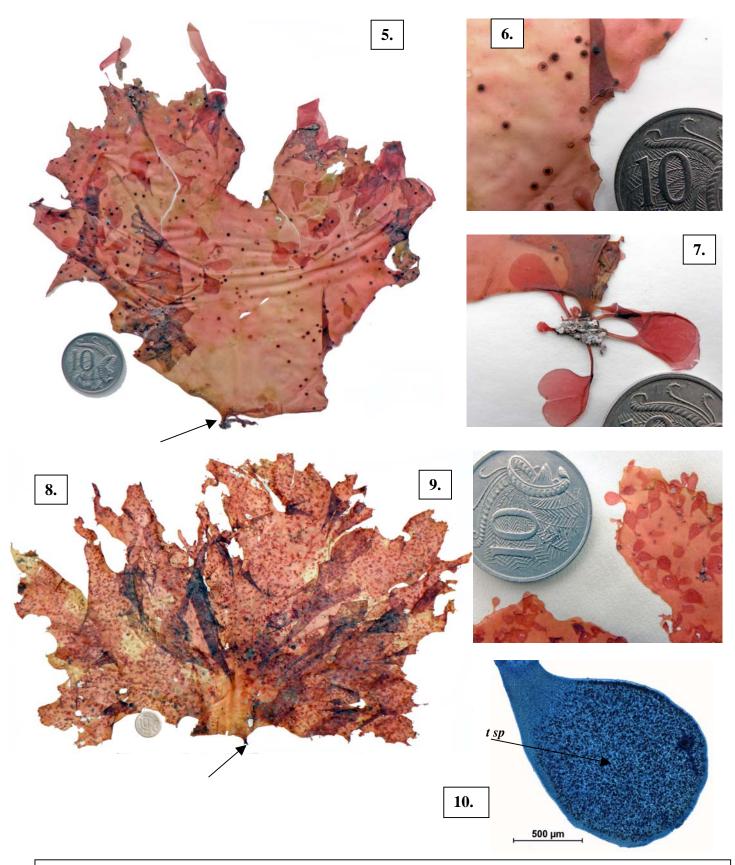


Rhodymenia halymenioides stained blue and viewed microscopically; #1-3 cross sections, #4 surface view

1. blade with narrow outer layers (cortex, co) of small cells and core (med) of larger cells of mixed sizes (A63868 slide 15044)

- 2. two cystocarps protruding from a blade (with cellular wall (pericarp, *peri*) of rows of small cells, depressed opening
- (ostiole, *ost*), central mass of carposporangial (*ca sp*) supported by nutritive threads (*nutr fil*) (A63886 slide 15068)
  3. bladelet with tetrasporangia (*t sp*) amongst elongate cells in the cortex, and star-shaped (stellate) medulla cells (*med*) (A63868 slide 15044)
- 4. surface view of a tetrasporangial bladelet with rings (rosettes) of cortical cells about tetrasporangia (A63868 slide 15045)



Variations in shape of Rhodymenia halymeniodes (J Agardh) Womersley from Tasmania

- 5-7. views of specimens from 5-12m deep, Arch Rock, E of Ninepin Point (A63886) at different magnifications, showing a broad, tattered blade speckled with mature female structures (cystocarps), basally a tiny stalk (arrowed) and in #6, several heart-shaped young blades basally
- 8, 9 different magnified views of a sporangial specimen from Gordon (A63792) showing a broad blade with tattered lobes speckled with small spatula-shaped bladelets, tiny basal stalk (arrowed) and detail of surface with proliferations
- 9 detached bladelet stained blue and enlarged (A63868 slide 15045) with scattered central mass of tetrasporangia (*t sp*)