Techniques needed and plant shapeClassificationPlDescriptive nameFeaturesFeaturess

Special requirements



Similar Species

Description in the Benthic Flora Details of Anatomy



Phylum: Rhodophyta; Order: Gigartinales; Family: Dumontiaceae

*red forked alga

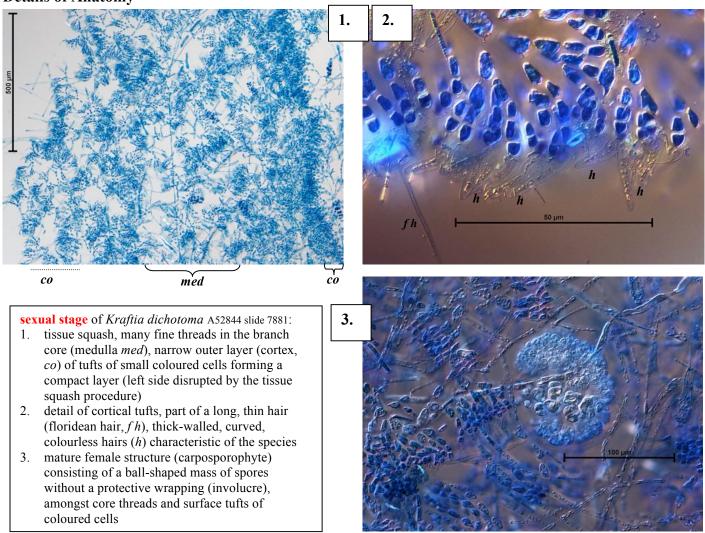
sexual plants: plants 10-30 mm tall, pink to dark red, attached by a disc-shaped pad ≈ 1 mm wide to *Amphibolis* stems, regularly forked, branches slightly compressed, 2-3 mm wide near the base narrowing to ≈ 1 mm near rounded tips

spore plants: dark red, 12 mm long with 1 mm erect branches wrapped around stems of the seagrass *Amphibolis*

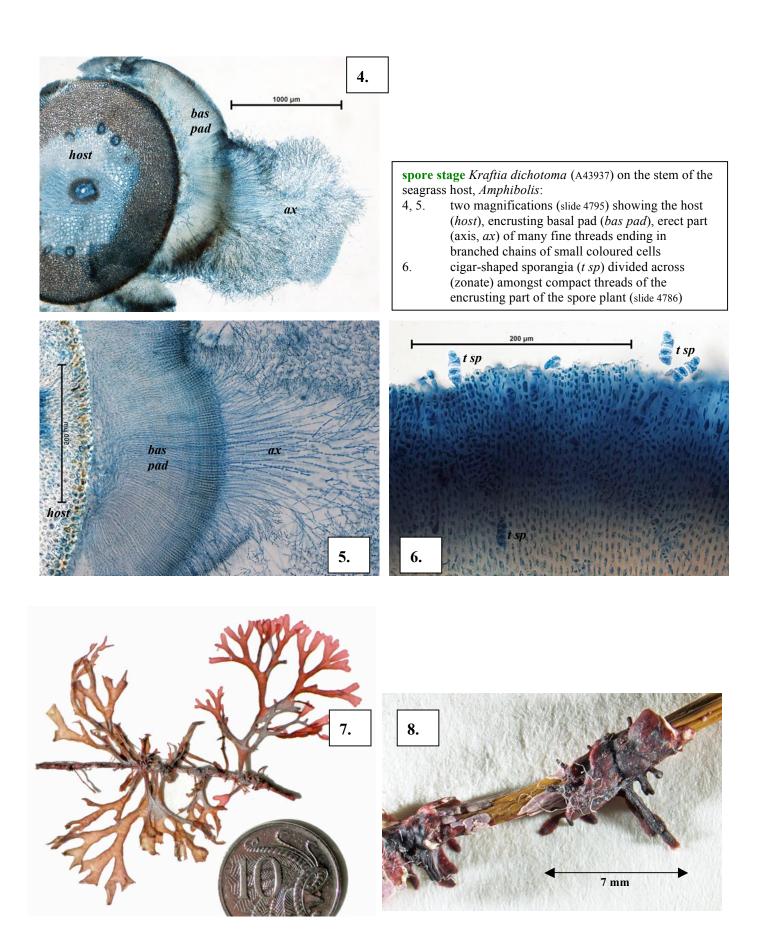
- 1. view a tissue squash of the larger sexual plants microscopically to find:
- *numerous*, fine threads in cores of branches
- outward-facing branched threads ending in *dense tufts* of small coloured cells forming a narrow, compact outer layer (cortex); some extremely fine, long, colourless hairs with swollen tips (floridean hairs) in the cortex
- outermost layer of minute, short, *thick-walled*, colourless hairs *curved* towards the branch tip, characteristic of the species
- in female plants, ball-shaped masses (carposporophytes) of large spores without a wrapping (involucre) lying within the branch, not forming bumps on the surface
- 2. view a cross section of the encrusting **spore plant** outer layers to find cigar-shaped tetrasporangia divided across (zonate)

sexual plants of *Gibsmithia womersleyi* have numerous threads in branch cores, but that species has a swollen, knobby base, female structures form surface bumps and tetrasporangia are divided in a cross pattern (cruciate)

Part IIIA, pages 221, 226-228



* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, State Herbarium S Australia, July 2013



Kraftia dichotoma Shepley & Womersley on the stems of the seagrass *Amphibolis*7. sexual plant A2822, from between Wright and Granite Is, Encounter Bay S A, 5-7 m deep
8. spore plant A43951 from Robe, SA, 8 m deep