Myriactula caespitosa Womersley & Skinner

Techniques needed and shape

Classification

*Descriptive name

Features Special requirements

Usual Habitat

Occurrences

Similar Species





Phylum: Phaeophyta; Order: Chordariales; Family: Leathesiaceae

slime tufts

plants brown, of slimy tufts about 1mm tall on the brown alga *Scytosiphon* tease out a slimy tuft from the host plant and view microscopically to find:

- basal layer of filaments that *penetrate* the host
- middle (medullary) layer, pinched where it exits the host made of *slimy*, colourless, branched filaments
- outer (cortex) layer with slightly swollen, *loose*, coloured, photosynthetic (assimilatory) filaments of determinate growth (about 20 cells long)
- colourless (phaeophycean) *hairs* that arise from the inner medullary filaments but extend well beyond the general plant body
- *thin* sporangia with many compartments in a single row (plurilocular sporangia), forming a *definite layer* in the cortex

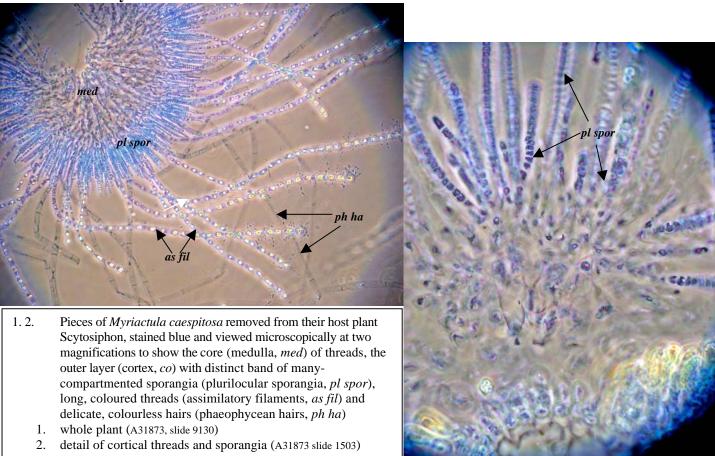
only known on *Scytosiphon* from Wanna (Pt Lincoln), S. Australia; probably more widespread but unobserved because of its diminutive nature. on *Scytosiphon*, in the lower intertidal

other epiphytic/partially parasitic members of the Chordariales such as *Elachista*, but that genus lacks hairs, or *Strepsithalia* which has a more diffuse body, or *Corynophloea* producing only a basal layer on the host. The host plant (basophyte) can often be used to separate these genera.

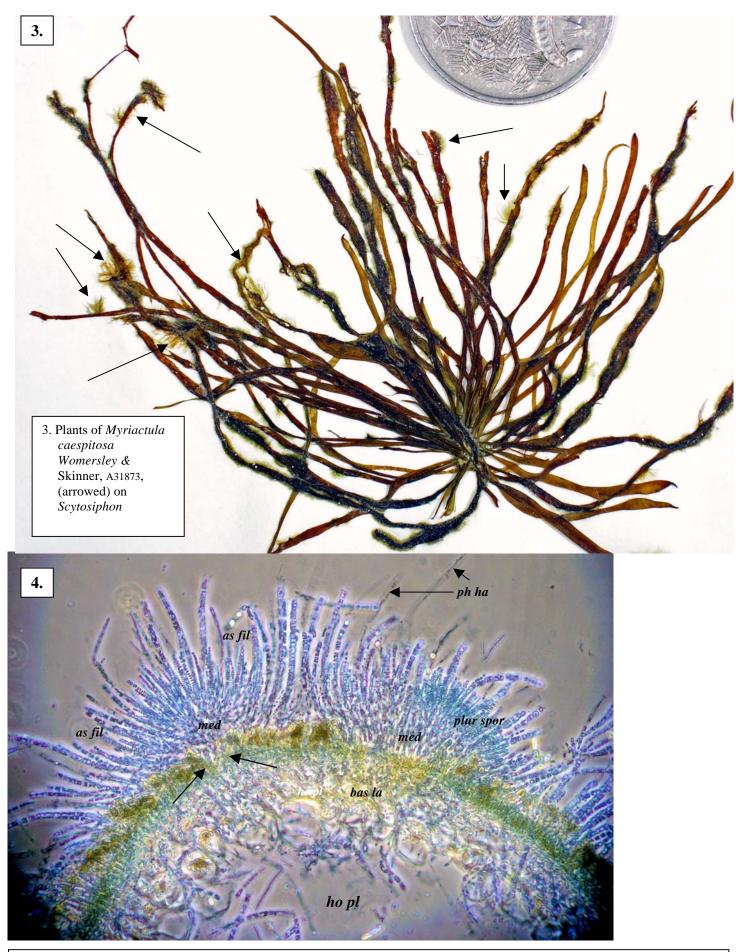
The host plant (basophyte) can often be used to separate the

Description in the Benthic Flora Part II, pages 91-94

Details of Anatomy



^{*} Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, August 2005



4. Cross section of a host plant *Scytosiphon (ho pl)*, bearing several plants of *Myriactula caespitosa*, (A31873, slide 1503), showing masses of filaments of the basal layer (*bas la*) *within* the host, pinched part of the medulla (arrowed) where the plant enters the host, expanding filaments of the medulla external to the host (*med*), sporangial layer (*plur spor*), chains of cells forming the assimilatory filaments (*as fil*) and a few colourless phaeophycean hairs (*ph ha*)