A SPECIES WITH FEW RECORDS





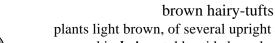
MACRO PLANT

Techniques needed and shape

Classification

*Descriptive name Features

Special requirements



plants light brown, of several upright *cylindrical* stalks (axes) 60-160mm long covered in *hairs*, stubby side branches with terminal tufts

Phylum: Phaeophyta; Order: Sporochnales; Family: Sporochnaceae

view microscopically to see the

- *terminal* tufts of hairs that continue the growth of the axis 3-7 cell above their bases
- *box-like* (pseudoparenchymatous) *inner cells*, and coloured photosynthetic *hairs* on the surface in a cross section

only known from 2 sterile collections in deep water: Investigator Strait and Waldegrave I., S. Australia

a deep water species (22m, 31m)

similar to other members of the Sporochnaceae but in *S. tomentosum*, surfaces are covered with simple coloured hairs

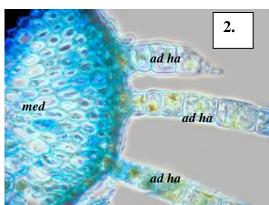


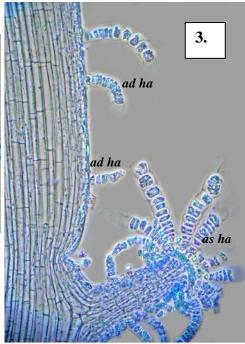
Usual Habitat Similar Species

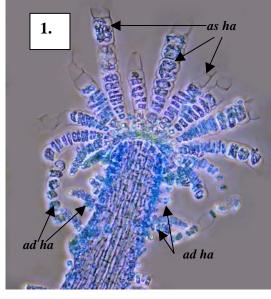
Description in the Benthic Flora Part II, pages 273-277 **Details of Anatomy**

Various magnifications of specimens (A38180, slide 9961) stained with aniline blue.

 section through an apical tuft of photosynthetic (assimilatory) hairs (as ha) that divide at their base, and scattered hairs, formed later (adventitious hairs ad ha)



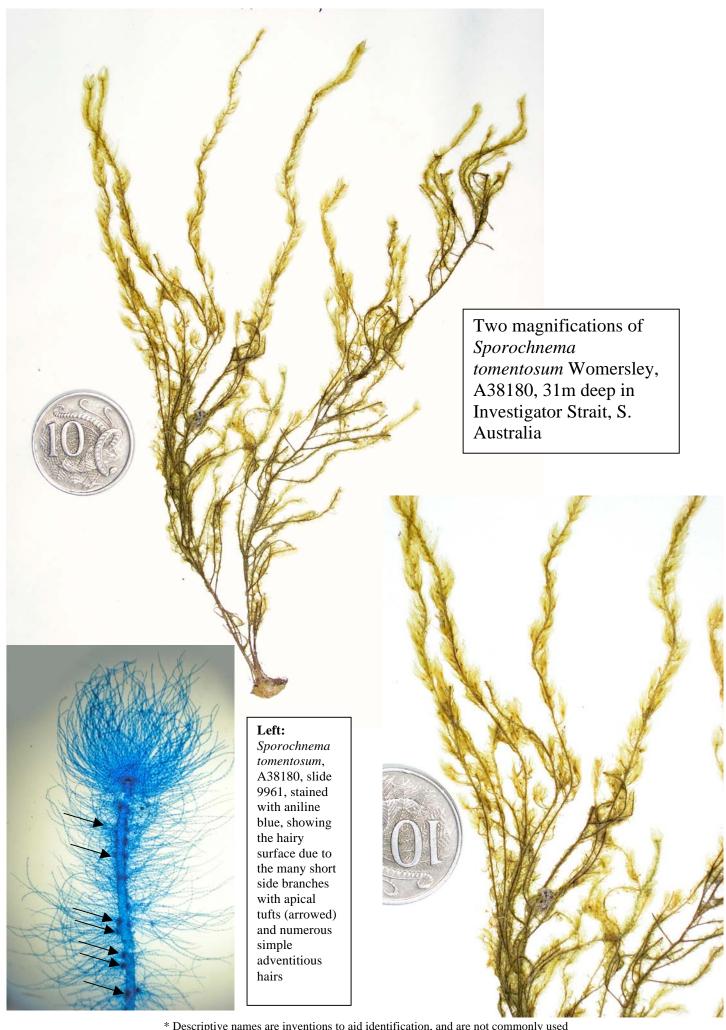






- 2. cross section of a stalk with a medulla of boxlike cells (*med*), and adventitious hairs (*ad ha*)
- 3. longitudinal section showing a short side branch with an apical tuft of assimilatory hairs (*as ha*) that divide at their bases, and short adventitious hairs (*ad ha*) that give the plant an overall hairy or tomentose appearance
- 4. highly magnified assimilatory hair showing minute disc-shaped plastids

^{*} Descriptive names are inventions to aid identification, and are not commonly used Prepared September 2005



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