Techniques needed and plant shape











Classification

Special requirements

Phylum: Rhodophyta; Order: Ceramiales; Family: Ceramiaceae;

Tribe: Callithamnieae

sea grass red epiphyte

*Descriptive name **Features** plants red-grey, to 50mm tall, on sea grass; main branches (axes) with radial side

view microscopically to find

- upright main branches (axes) forked, in lower parts densely clad (corticated) in *rhizoids*, arising from the basal cells of short, radially arranged side branches, some side branches near the plant tips branched on their lower (abaxial) sides only
- carposporophytes (products of fertilisation), of 1-2 bunches of carposporangia on a short fusion cell attached to the lower cells of naked (ecorticate) side branches, wrapping (involucre) of branches absent
- tiny male spermatangial branches on the *upper* (adaxial) sides of short, side branches
- stalkless tetrahedrally divided tetrasporangia on lower cells of side branches

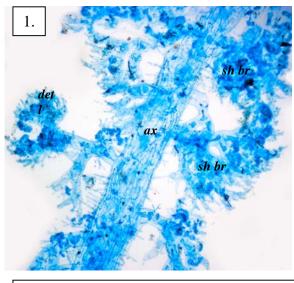


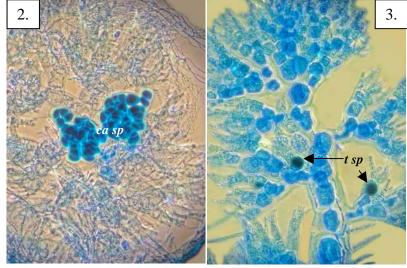
Warning: numerous stalked protozoans can attached to plants and be mistaken for sporangia

Occurrences Usual Habitat Similar Species only known from Tiparra Reef, S Australia on Posidonia and Amphibolis Antarctica, 5m deep

Hirsutithallia laricina, but that species has longer, naked side branches with wider basal cells, carposporangia are larger, upper short branches branched on all sides

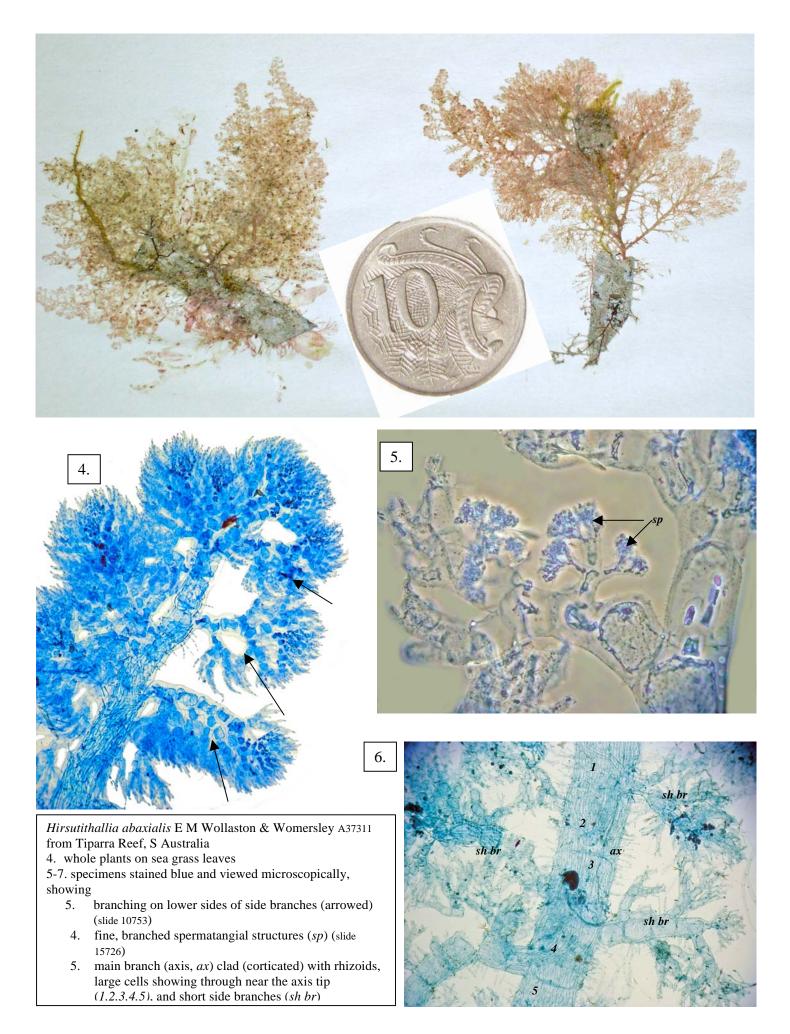
Description in the Benthic Flora Part IIIC, pages 260, 262-263 **Details of Anatomy**





- 1, 2. Hirsutithallia abaxialis A37311 stained blue and viewed microscopically at different magnifications
 - 1. main branch (axis, ax) clad (corticated) with rhizoids and short (determinate) branches, (sh br) (slide 3473)
 - lobed carposporophyte (product of fertilisation) (ca sp) (slide 15726)
- 3. young (undivided), stalkless tetrasporangia (t sp) on lower cells of a naked side branch (A377712 slide 3472)

^{*} Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, February 2007



* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, February 2007