

view microscopically to find

narrow, flat-branched Laurencia

*Descriptive name

Features

Special requirements



tetrasporangia in *parallel lines* in short, *cylindrical* branches

• single, stalkless cystocarps the products of fertilisation, in side branches

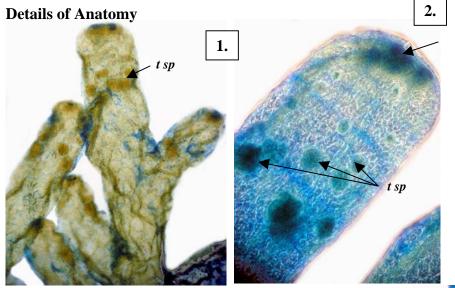
plants dark red, *gristly*, 20-50mm tall, main branches (axes) *flat-branched*, in two regular rows (*distichous*), *compressed*, *less* than 1mm wide, ending in a depression

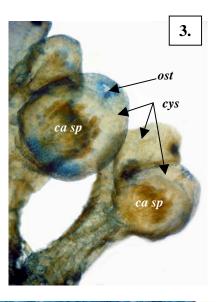
Occurrences

Usual Habitat Similar Species tropical Indian Ocean, the N island of New Zealand, NSW, and in southern Australia, only collected at Wine Glass Bay, Freycinet Peninsula, Tasmania in (intertidal) rock pools in southern Australian species

Laurencia brongniartii and *L. elata*, but in the first species the compressed branches are wider than 1mm and the latter is larger (120-300 mm tall) with less regular branching

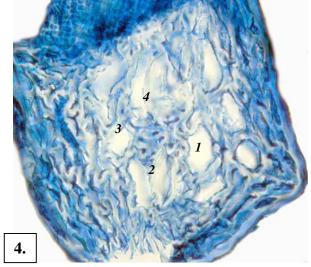
Description in the Benthic Flora Part IIID, pages 480, 481





Laurencia distichophylla A27906 stained blue (some images partially) and viewed microscopically

- 1. short tetrasporangial branches with sporangia (*t sp*) (slide 4533)
- 2. sporangial branch showing the depression at the tip (arrowed), characteristic of all *Laurencia* species, and parallel rows of sporangia (*t sp*) (slide 20211)
- 3. globose, stalkless cystocarps (*cys*), products of fertilisation, with carposporangia (*ca sp*) inside, and single openings (ostioles, *ost*) at the tips (slide 4533)
- 4. cross section of a sporangial branch showing obscure central thread and 4 flanking cells (1,2,3,4) cells obscured by rhizoids, separating the genus *Laurencia* from *Chondrophycus* which has 5 conspicuous pericentral cells





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