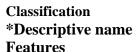
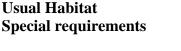
Techniques needed and plant shape



Occurrences Usual Habitat









MACRO PLANT





Phylum: Rhodophyta; Order: Bonnemaisoniales; Family: Bonnemaisoniaceae slender leaved red weed

1. red to red-brown, fading to yellow, 50-150mm tall, *flat-branched*, *compressed*, of

- numerous thin main branches (axes), about 2mm wide
- side branches flat, often edged in minute teeth, narrower basally
- 2. barrel-shaped products of fertilisation (cystocarps, cys) at ends of opposite short branchlets

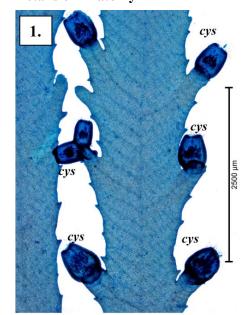
West Coast S Australia, to Victoria and Tasmania probably a deep water species (collected at 30m)

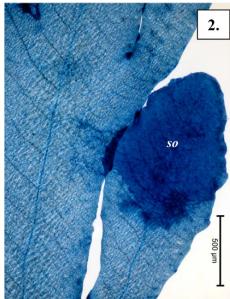
focus through the surface of plants microscopically to find:-

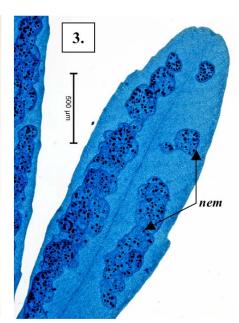
- a single, tiny tip cell, central thread, characteristic opposite, curved side threads of equal size their cell products cohering together into a flat blade
- side threads ending in a minute tooth at the blade edge
- minute spermatangia in surface patches at branch tips
- barrel-shaped products of fertilisation at ends of opposite short branchlets
- warty, irregular patches of tetrasporangia on branch surfaces near tips

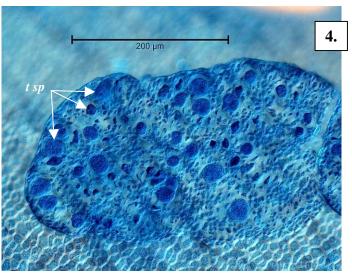
Ptilonia spp but those have thicker blades; internal, paired side threads unequal in size Part IIIB, pages 347-349

Similar Species Description in the Benthic Flora Details of Anatomy



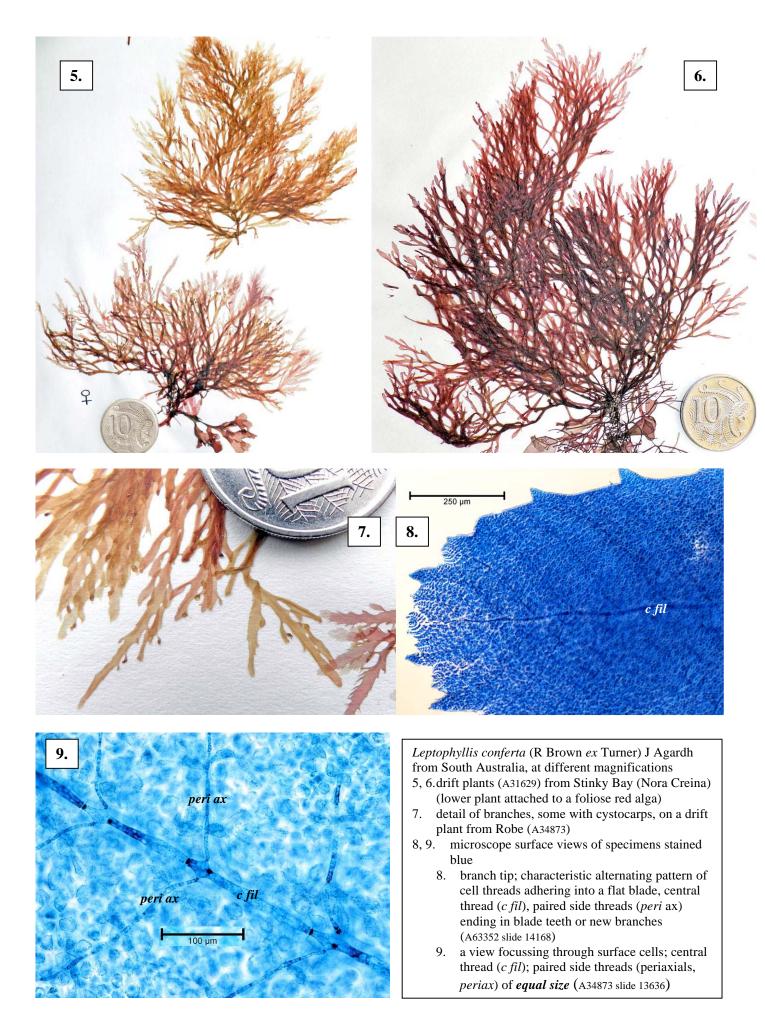






Microscope surface views of Leptophyllis conferta stained

- 1. barrel-shaped products of fertilisation (cystocarps, cys), one set paired, at ends of opposite short branchlets; midvein with pairs of side veins extending to teeth on blade margin (A63352 slide 14168)
- 2. surface patch (sorus, so) of male spermatangia at branch tip (A34873 slide 13638)
- 3. warty patches (nemathecia, nem) of sporangia (A10949 slide 13633)
- 4. detail of a sporangial nemathecium with tetrasporangia (t sp) (A10949 slide 13633)



*Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed", R N Baldock, S Australian State Herbarium March 2012