Techniques needed and shape

Sonderopelta coriacea

Classification *Descriptive name Features



Phylum: Rhodophyta; Order: Gigartinales; Family: Peyssonneliaceae [§]red sea fan

- 1. plants dark red, 50-200mm long and sometimes broader.
- 2. a single or several split leathery, flat, fan-shaped blades spread from a short stalk of interwoven threads;
- 3. blades have a thicker margin and concentric rings. The underside is felty with a covering of yellowish rhizoids

New Zealand. In Australia, from the Great Australian Bight to Port Phillip, Victoria in deep water or reef shaded overhangs or caves

cut a cross section along a radius of a blade and view microscopically to find threads (multicellular filaments) arising near the blade underside, curving upwards and downwards to form two asymmetric layers and rhizoids on the underside

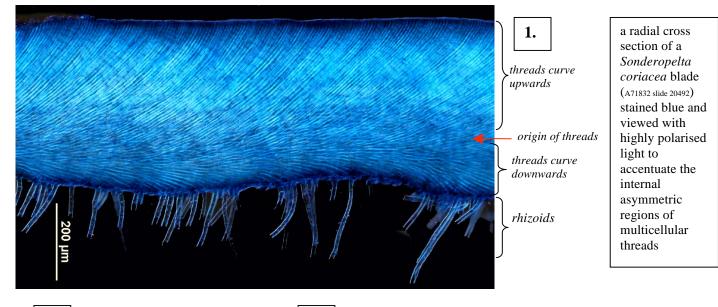
if possible cut a section through patches (nemathecia) on upper blade surfaces of sporangial plants. Tetrasporangia are divided in a cross (cruciate) pattern and lack intermingled hairs a feature separating Peyssonnelia from Sonderopelta

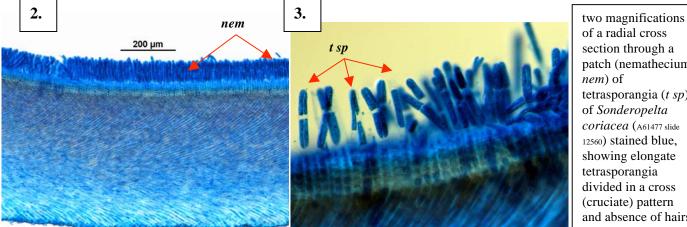
Peyssonnelia novae-hollandiae, but that species is mainly prostrate, has internal threads that curve upwards only and tetrasporangia are intermingled with hairs

Description in the Benthic Flora Part IIIA, pages 151-153, 156

Details of Anatomy

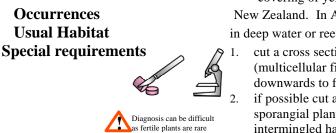
Similar Species



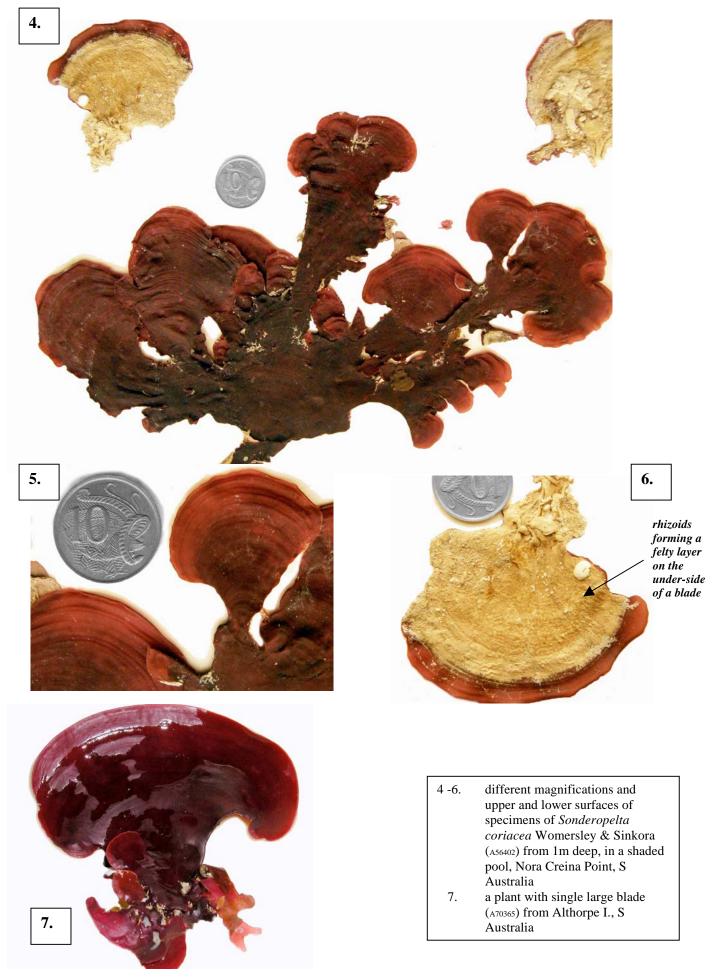


of a radial cross section through a patch (nemathecium, nem) of tetrasporangia (t sp) of Sonderopelta coriacea (A61477 slide 12560) stained blue, showing elongate tetrasporangia divided in a cross (cruciate) pattern and absence of hairs

Descriptive names are inventions to aid identification, and are not commonly used. [§] name used in Edgar, G. Australian Marine Life, 2nd Ed. (2008) "Algae Revealed" R N Baldock, S Australian State Herbarium November 2009



Womersley & Sinkora



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