

Techniques needed and shape



Classification

*Descriptive name

Features

Occurrences

Usual Habitat

Special requirements

Phylum: Phaeophyta; Order: Sphacelariales; Family: Sphacelariaceae

brown micro-turf of *Cystophora*

plants form brown, dense, turf-like patches on *Cystophora monilifera*

only known from Busselton, and Salmon Bay, Rottneest I, W. Australia, but possibly more widespread due to its diminutive nature

possibly restricted to *Cystophora monilifera*

tease out threads from the host plant and view microscopically to find:-



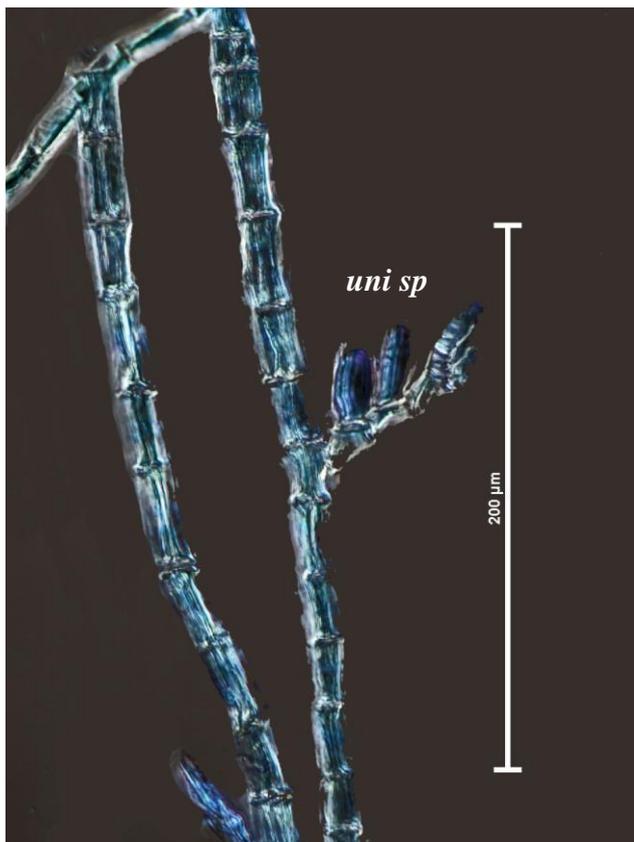
- apical cells with **dense** contents; **narrow** threads (12-18µm across) irregularly branched usually with pairs of cells arranged in bands (**segments**); occasionally fine, colourless **hairs** present
- single-compartmented (unilocular) sporangia **in rows** of 2-5 on the upper sides of short side branches
- many-compartmented (plurilocular) sporangia **paired** (or in 3's) on short stalks in the fork of branches

Similar Species

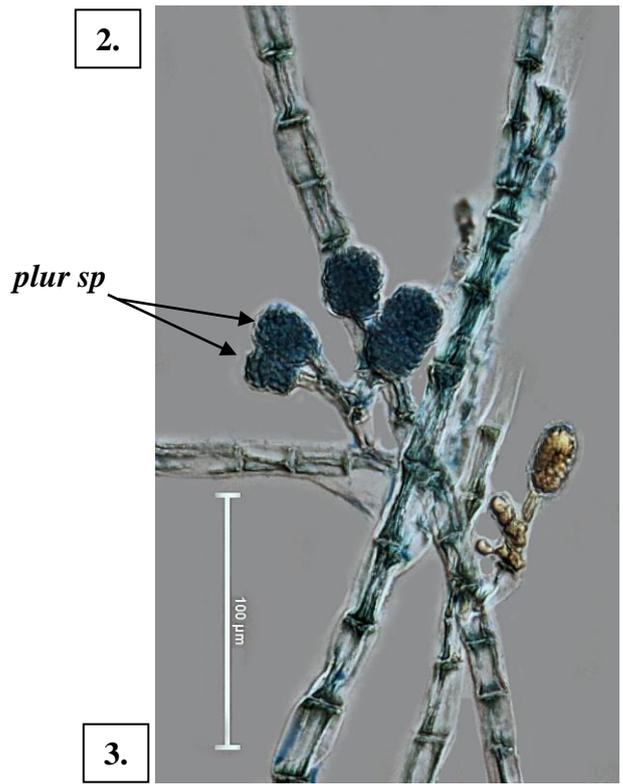
Sphacelaria bracteata but that species is found on a variety of *Cystophora* species, has shorter segments, 2-7 plurilocular sporangia occur in short branch systems and unilocular sporangia are unknown.

Description in the Benthic Flora Part II, pages 157-158

Details of Anatomy



1.



2.



3.

Sphacelaria chorizocarpa, stained blue and viewed microscopically

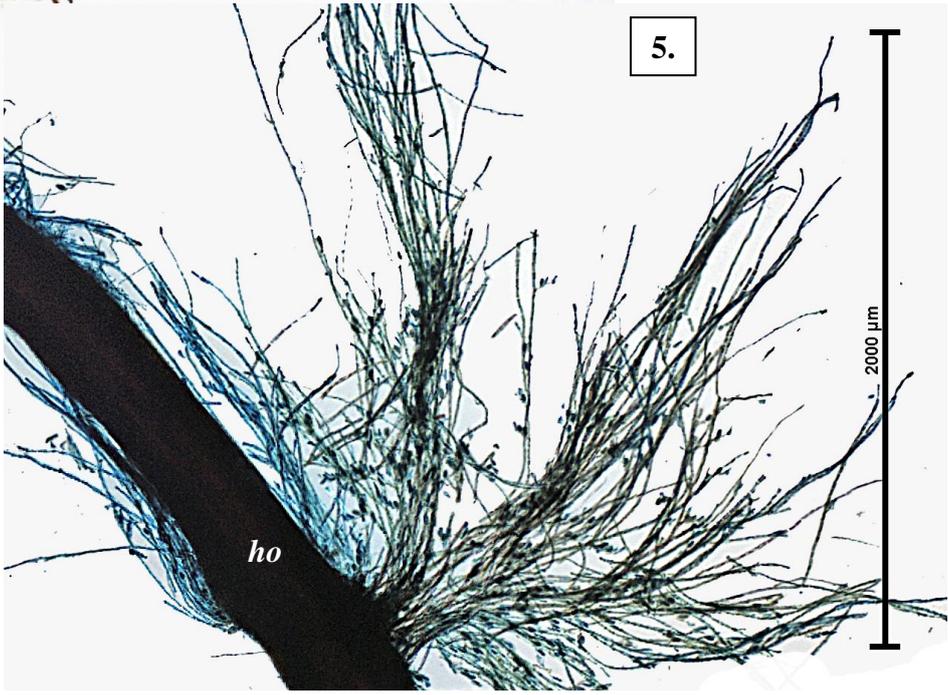
1. row of stalkless, single-compartmented (unilocular) sporangia (**uni sp**)
2. pairs of many-compartmented sporangia (plurilocular sporangia, **plur sp**) on stalks (pedicels) in the fork of branches
3. filament tip: apical cell (**ap c**) with dense contents

* Descriptive names are inventions to aid identification, and are not commonly used
"Algae Revealed", R N Baldock, State Herbarium, of S Australia, September 2005; revised November 2014



4.

4. *Sphacelaria chorizocarpa* Sauvageau, A2099 (arrowed) on the host plant *Cystophora monilifera*, from Rottneet I., W. Australia
 5. magnified view of plants on a fragment of host plant *Cystophora monilifera*, (**ho**) (A18469, slide 8914)



5.

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