Nereia lophoclada

J. Agardh

Techniques needed and shape

Classification

*Descriptive name

Features

Special requirements

Occurrences

Usual Habitat Similar Species A SPECIES WITH FEW RECORDS

34.540

multiseriate

Phylum: Phaeophyta; Order: Sporochnales; Family: Sporochnaceae

brown tuft-tips

plants brown, 150-200mm long a mix of long and short branches arise radially around wiry main branches, tips ending in a *tuft* of tiny brown hairs

MACRO

PLANT

view microscopically a *lengthwise* slice along the branches to display

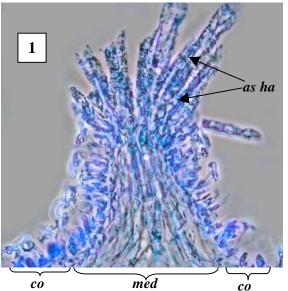
- outer (cortical) layer of *globe-shaped* terminal and *squat* basal cells
- stalkless, single-compartmented (unilocular) sporangia mixed *amongst* the globe-shaped cells
- middle (medulla) layer of *elongate* cells

only known from 1889 collections at Pt Phillip Heads, and possibly from near Coffs Harbour, NSW (Millar)

on sand covered rocks

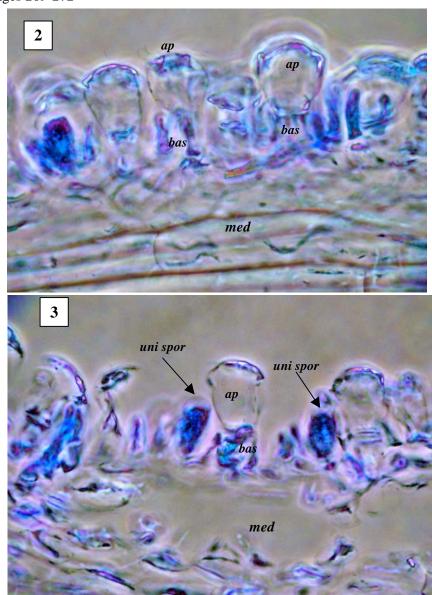
Nereia lophoclada may prove to be *N. filiformis* <u>sensu</u> J. Agardh from the Mediterranean, a chance introduced species

Description in the Benthic Flora Part II, pages 269-272 Details of Anatomy

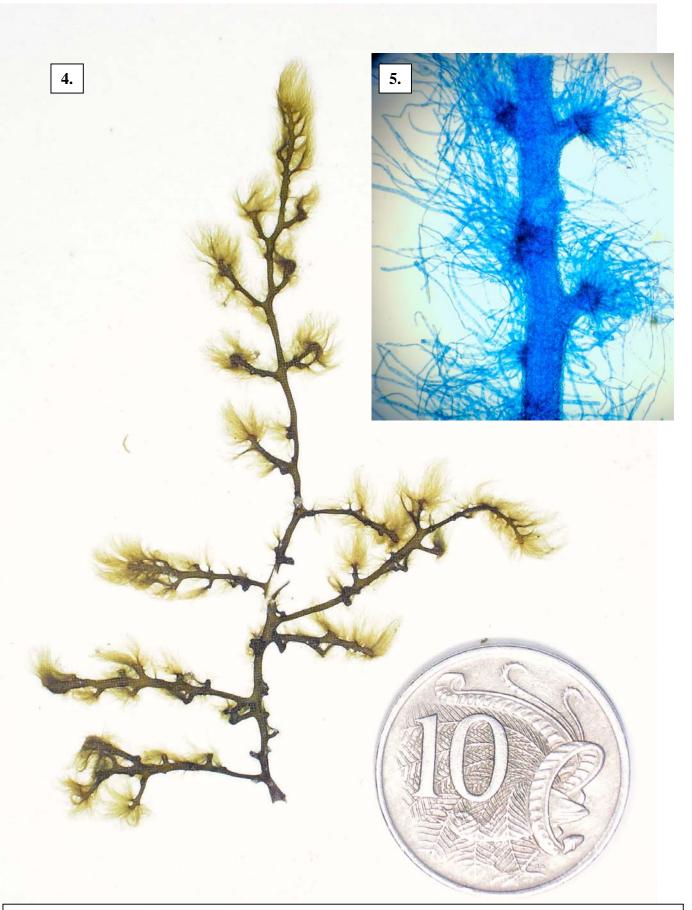


Magnified views of *Nereia lophocladia* (A30524, slide 9992) blue.

- 1. section through an apical tuft, with coloured hairs (assimilatory hairs, *as ha*), surface (cortical) layer (*co*), and middle layer (medulla, *med*)
- 2, 3.highly magnified views of lengthwise sections showing the outer layer (cortex) with characteristic pairs of cells consisting of globe-shaped terminal cell (*ap c*) and squat basal cell (*bas c*), single-compartmented (unilocular) sporangia (*uni spor*) and elongate cells of the middle layer (medulla. *med*)



* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, September 2005



4. *Nereia lophoclada* J. Agardh A55711, from Muttonbird I., near Coffs Harbour, NSW
5. microscope view of a piece plant from Pt Phillip, Victoria, (A305247, slide 669) stained blue to show the terminal tufts of coloured (assimilatory) hairs