

Techniques needed and plant shape



MICRO PLANT



epiphyte



foliose

Classification

*Descriptive name

Features

Special requirements

Division: Rhodophyta; Family: Rhodomelaceae; *Placophora* group
Red *Codium*-blades



the plant is found as tiny flat red blades up to 6mm broad, on the green siphonaceous algal genus, *Codium* spp



view the small blades microscopically to find



- margins consist of numerous **flat-topped** apical cells forming lines of cells that **join** together into a flat blade attached flat to host *Codium* plants by small **rhizoids**
- cystocarps the products of fertilisation, in **clusters** on the edge of blades, on short, many-celled **stalks**, **egg-shaped** with an opening (ostiole) at the tip
- tetrasporangia in a **single** row in clustered elongate structures (**stichidia**)

Occurrences

Usual Habitat

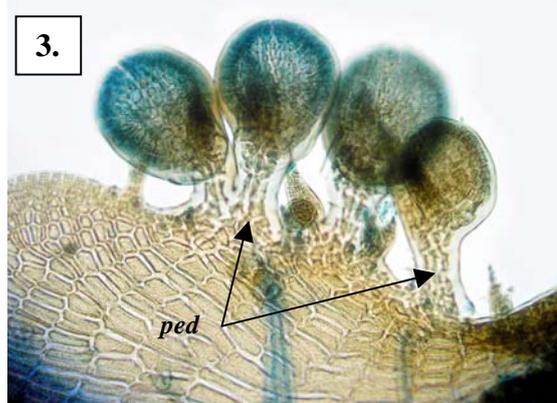
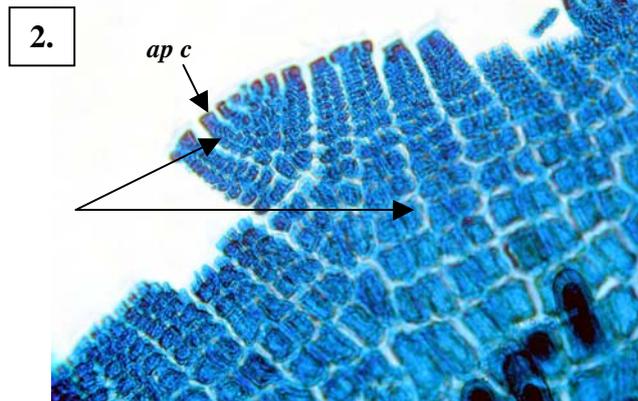
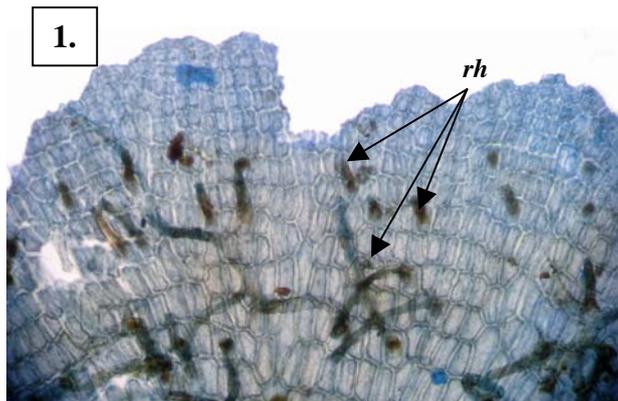
Similar Species

Africa and possibly Timor; in Australia, known only from Elliston, S. A.

on the surface of on the green siphonaceous algal genus, *Codium* spp although reported on other algae with firm surfaces in S Africa

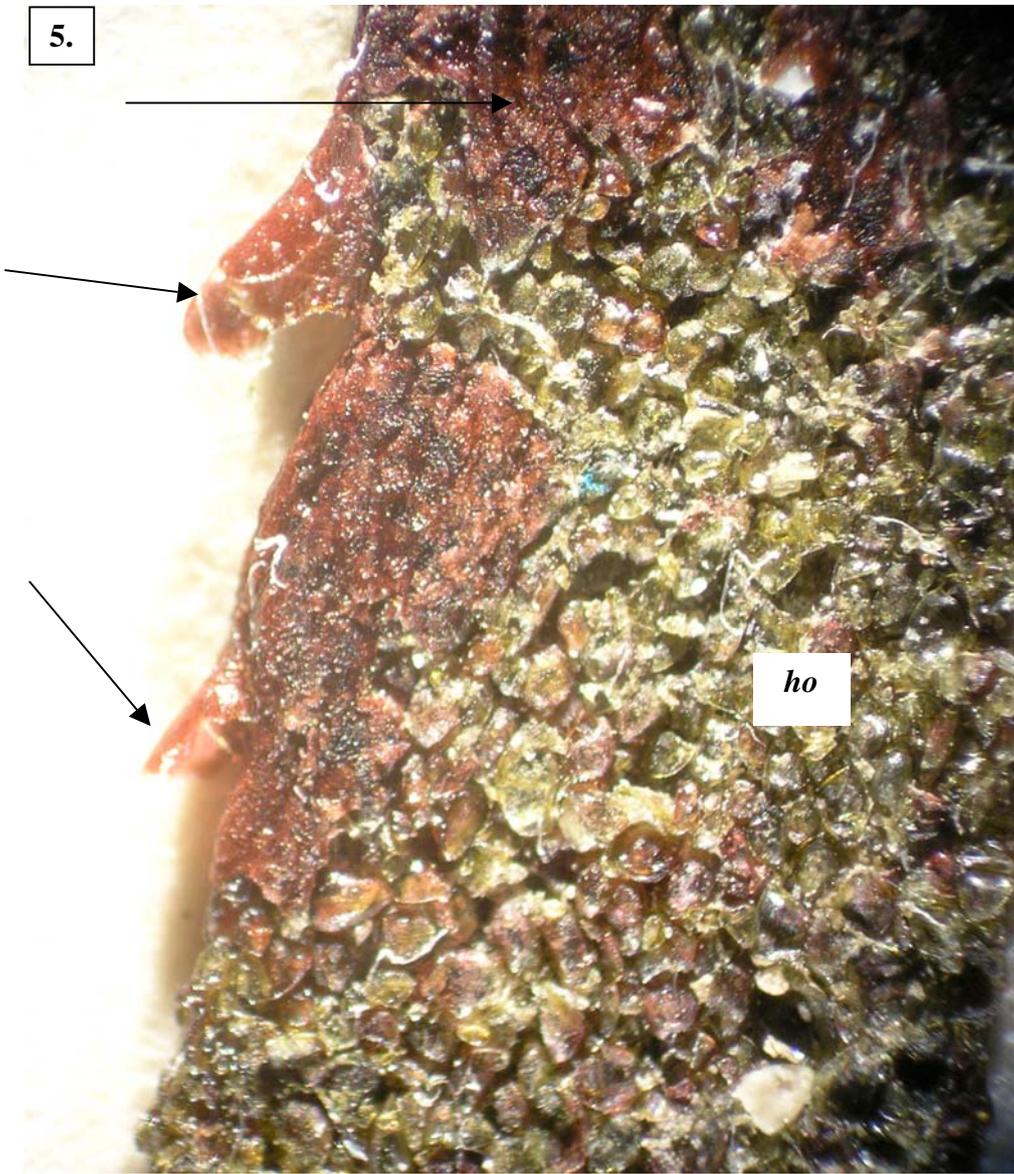
similar to members of the Pterosiphonieae (e.g. *Pollexfenia*) but special branched "hairs" (**trichoblasts**) **absent** and cell lines remain **distinct**

Description in the Benthic Flora Part IIID, pages 360, 361



Placophora binderi stained blue and viewed microscopically

1. portion of a blade showing scattered rhizoids (*rh*) (A15017 slide 19358)
2. many lines of cells (arrowed) formed behind flat-topped apical cells (*ap c*) adhering into a flat blade (A15017 slide 20225)
3. group of cystocarps with stalks (pedicels *ped*) (A47998 slide 5670)
4. cluster of specialised tetrasporangial structures (stichidia, *stich*) with a single line of tetrasporangia inside (A47998 slide 5670)



Placophora binderi (J Agardh) J Agardh,

- 5. A40785 (arrowed) on *Codium duthieae*, (host, *ho*) from Tergniet, Mossel Bay, S Africa
- 6. plants detached from *Codium pomoides* from Elliston, S. Australia (A15017)
- 7. whole plant detached from *Codium pomoides*, stained blue and viewed microscopically (A15017 slide 20225)



7.



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