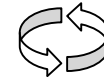


Techniques needed and plant shape



MACRO
PLANT



This is a stage in the whole life cycle of the species

Classification

Phylum: Rhodophyta; Order: Bangiales; Family: Bangiaceae
delicate laver

*Descriptive name

Features

plants *delicate*, red to purple drying pale red-brown, single, or branched at the base into lance- or oval-shaped blades 50-200mm long, ruffled at edges
near Perth, W Australia to Victoria and N and E coasts of Tasmania

Occurrences

Usual Habitat

Special requirements

on rock usually in the *mid-intertidal*

view blades microscopically.



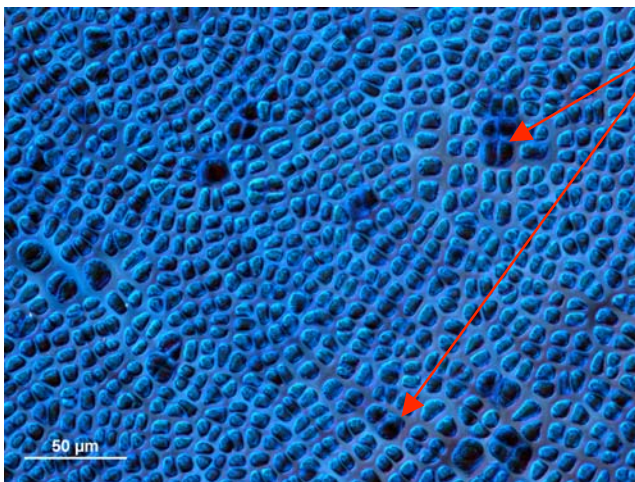
1. blades one cell thick, growth occurring all over the blade (diffuse), edges may have microscopic teeth.. Cells irregularly arranged and *well separated* from each other.
2. male spermatangia in packets of 16-64 tiny spermatia, *in strips* running from the blade edge inwards
3. female structures of packets of 8 carposporangia in masses *between* the spermatangial strips
4. small groups of undivided spores (monosporangia) can be found near the blade edges
5. spore plants (called the conchocelis stage) are unknown

Similar Species

Porphyra columbina species, but that species has *tougher* blades, and *irregular* spermatangial patches

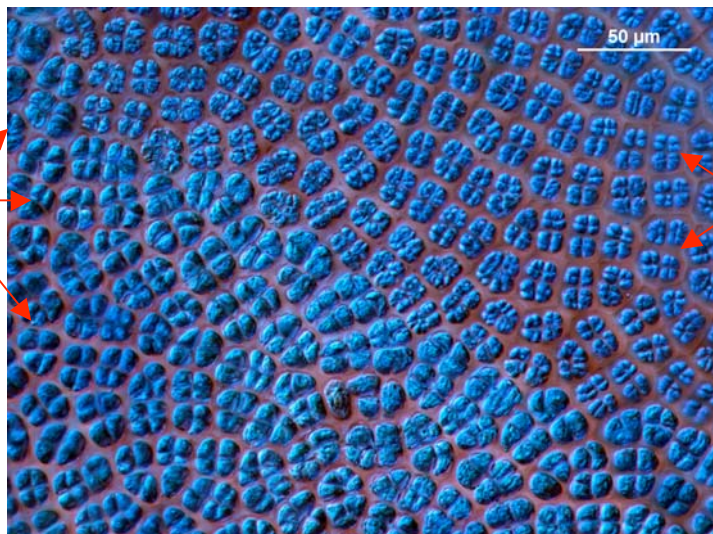
Description in the Benthic Flora Part IIIA, pages 39-41

Details of Anatomy



1.

3.



Porphyra lucasii stained blue and viewed microscopically

1. monosporangia (*m sp*) near the blade edge (A42603 slide 4386)
2. spermatangial strips (*sperm strips*) running from the blade edge inwards (A39443 slide 4243)
3. boundary between packets of female carposporangia (*ca sp*) and male spermatangial packets (*sp*) (A42764 slide 5250)

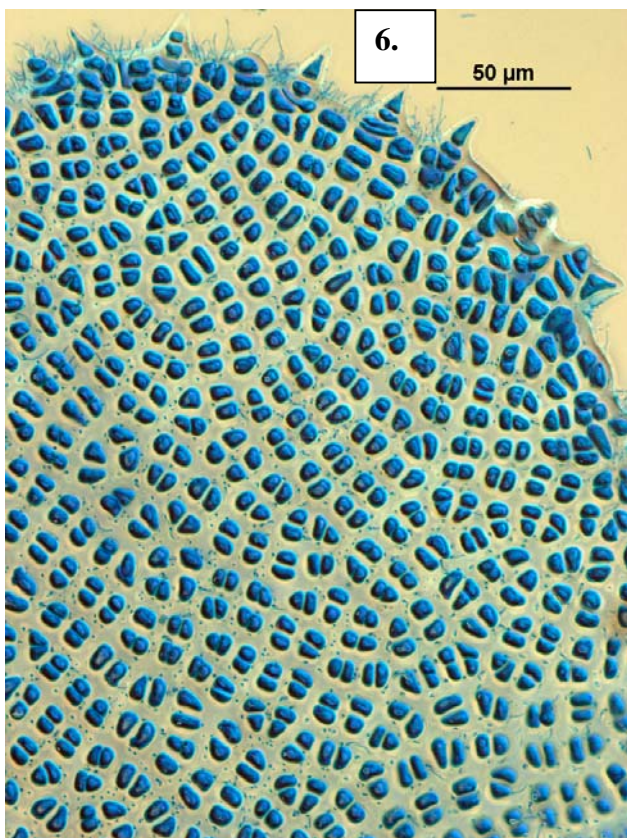


4.



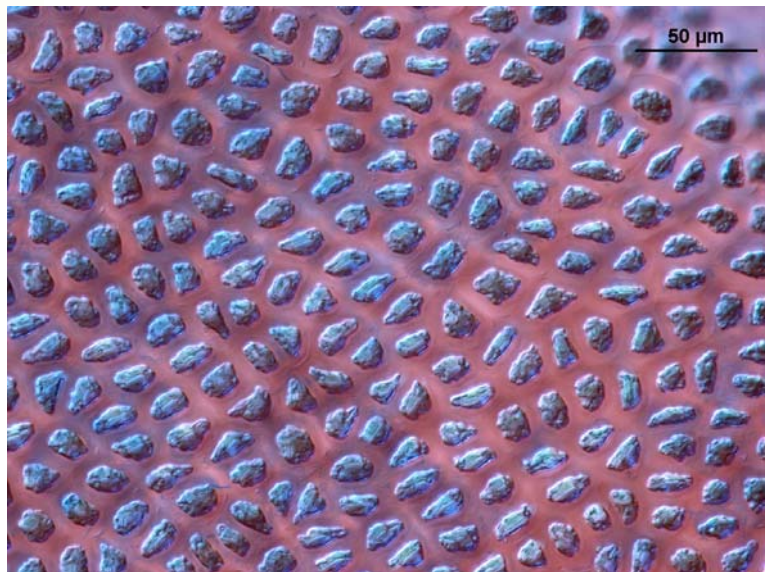
5.

7.



6.

50 μm



50 μm

4, 5.. Specimens of *Porphyra lucasii* Levring from the mid intertidal of S Australia, showing variations in colour and shape
 4. at Rosetta Bay, Victor Harbor (A57142)
 5. at Cape Lannes, Robe, S Australia (A67916)
 6, 7.. microscope views of specimens stained blue
 6. toothed blade edge (A19731 slide 020)
 7. blade middle showing large spaces between cells (A57374 slide 10229)