

# *Micropeuce proxima*

(Harvey) Womersley & M J Parsons

Assigned to *Micropeuce* with some doubt

45.940.07

A SPECIES WITH FEW RECORDS



## Techniques needed and plant shape

### Classification

\*Descriptive name

### Features



Division: Rhodophyta; Family: Rhodomelaceae; Tribe: Lophothalieae  
ragged tufts

plants dark red of tubular (terete) main branches (axes) with smaller side branches ending in delicate pink tufts

### Special requirements



view microscopically to find

- at branch tips, delicate tufts of much branched threads (*trichoblasts*) with individual (non adherent) cell walls at branches, a feature that placing this genus in the Tribe: Lophothalieae
- in a cross section, a central filament ringed by 5 flanking (pericentral) cells a feature separating it from *Holotrichia*
- spherical cystocarps, products of fertilisation, with an opening at the tip

### Occurrences

### Usual Habitat

### Similar Species

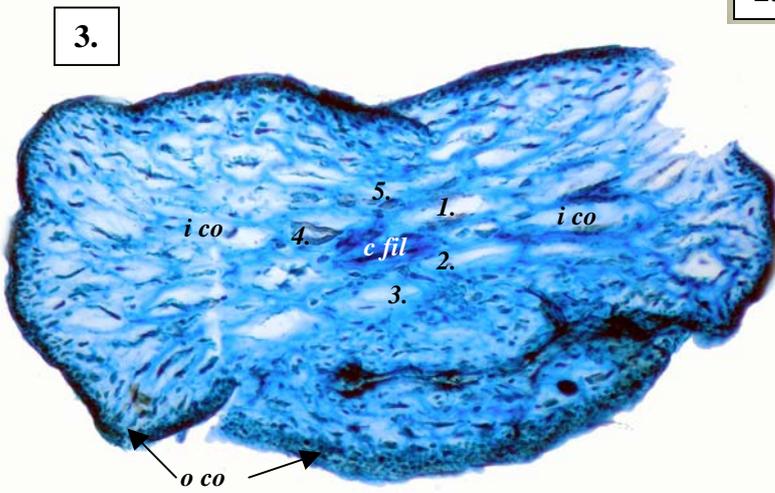
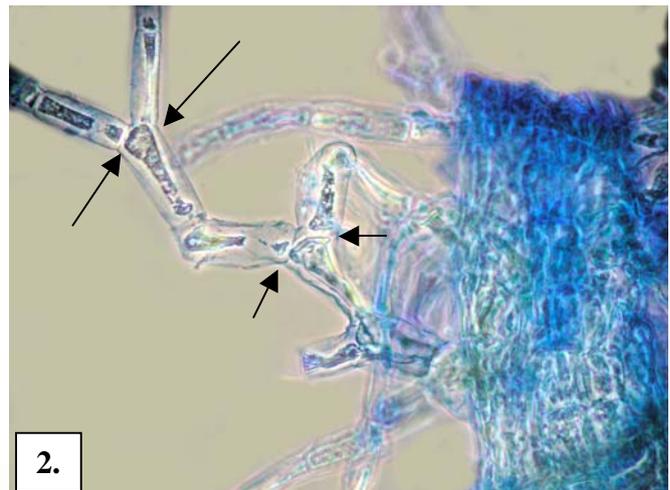
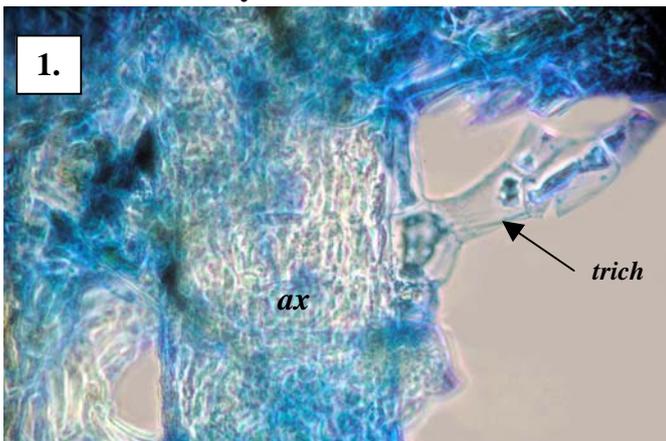
a single specimen from Middleton Bay, King George Sound W Australia

unknown

other genera of corticated Lophothalieae, and requiring mature tetrasporangia for accurate identification

Description in the Benthic Flora Part IIID, pages 254, 259

### Details of Anatomy



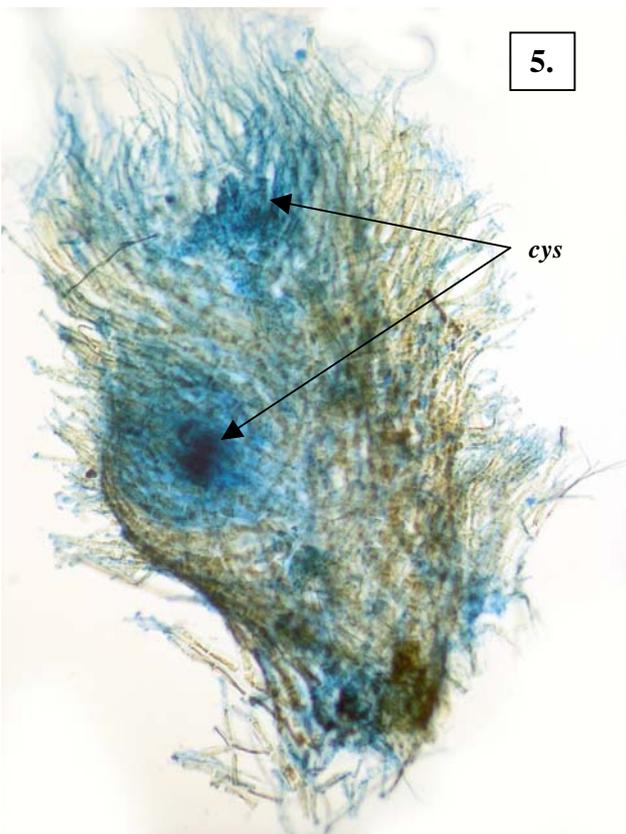
*Micropeuce proxima* (A18471 slide 18349) stained blue and viewed microscopically.

1. part of a heavily corticated main branch (axis, *ax*), and the base of a branched thread (trichoblast, *trich*)
2. detail of a detached piece of axis with exposed trichoblasts, showing the individual cell walls at branches (arrowed)
3. cross section of an axis, (distorted during preparation), showing a central thread (*c fil*) ringed by **five** flanking (pericentral) cells, (*1-5*) obscured because of the numbers of large inner cortical cells (*i co*); and an outer layer of small cells (outer cortex, *o co*)

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

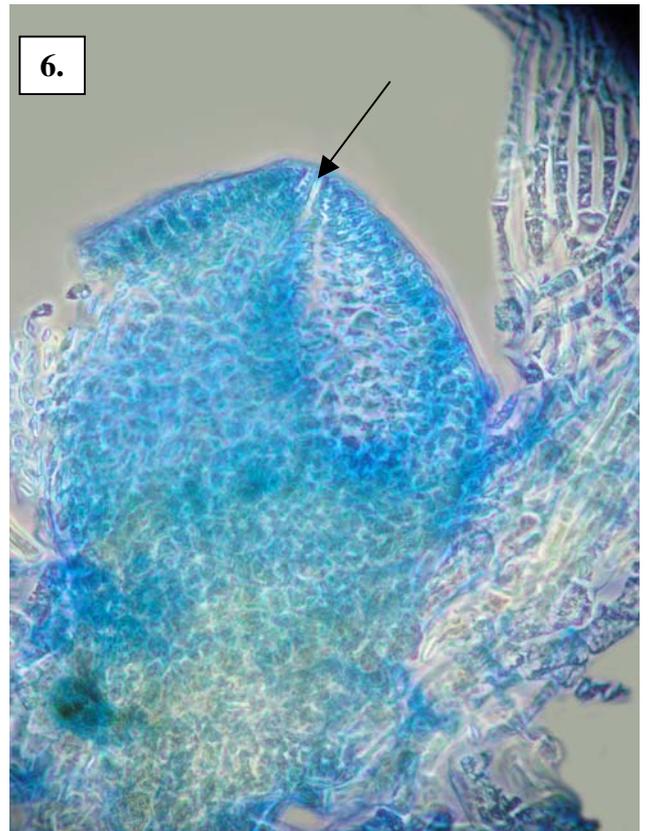


4.



5.

cys



6.

4. *Micropeuce proxima* (Harvey) Womersley & M J Parsons, A18471: a fragment of the type specimen from King George Sound, W Australia, mounted on mica  
 5, 6 cystocarps (*cys*) (A18471 slide 18349) stained blue and viewed microscopically  
 5. lower magnification with cystocarps partly obscured by numerous thread-like trichoblasts  
 6. dissected cystocarp showing the tip with lines of cells leading to the opening (arrowed)

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