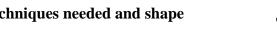
## Acetabularia calyculus Lamouroux

## Techniques needed and shape



Classification

\*Descriptive name **Features** 

Variations

**Occurrences Usual Habitat** 

**Similar Species** 

**Special requirements:** 



MICRO PLANT

Phylum: Chlorophyta; Order: Dasycladales; Family: Polyphysaceae

cup tops; §mermaid's cup.

- 1. plants are pale green or whitish, due to calcified walls.
- 2. one to several upright stalks, 30-70mm tall, are attached to shell or limestone fragments

patches of fine fuzz may just be visible along upper parts of the stalks. These are rings of pale green or colourless, microscopic hairs. Occasionally 2 cups occur on a stalk.

world-wide distribution in warmer waters

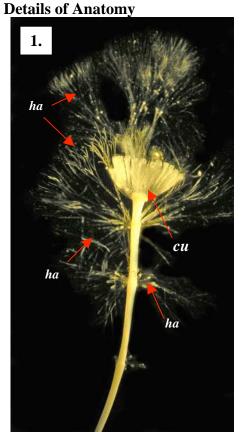
In S. Australia it occurs in sheltered bays and relatively deep Gulf waters. on shell fragments

1. view the terminal ring of rays microscopically. The rays should be *joined into* 

- 2. view the slender rings of hairs microscopically. Three to four branches arise at each of the forks along their length.
- (3. view the small bulge at the base of the rays sometimes bearing hairs microscopically. This is called a corona and occurs on both the *upper and lower sides* of the rays, which is a diagnostic feature of the genus, although difficult to find.)

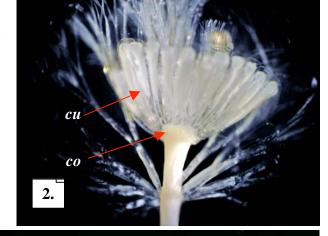
Polyphysa peniculus, but the rings of balloon-shaped rays are separate at their edges in that species.

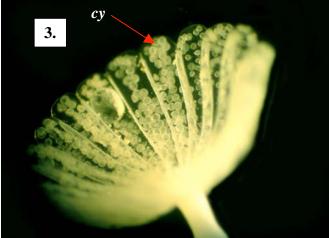
**Description in the Benthic Flora** Part I, pages 294, 296-298



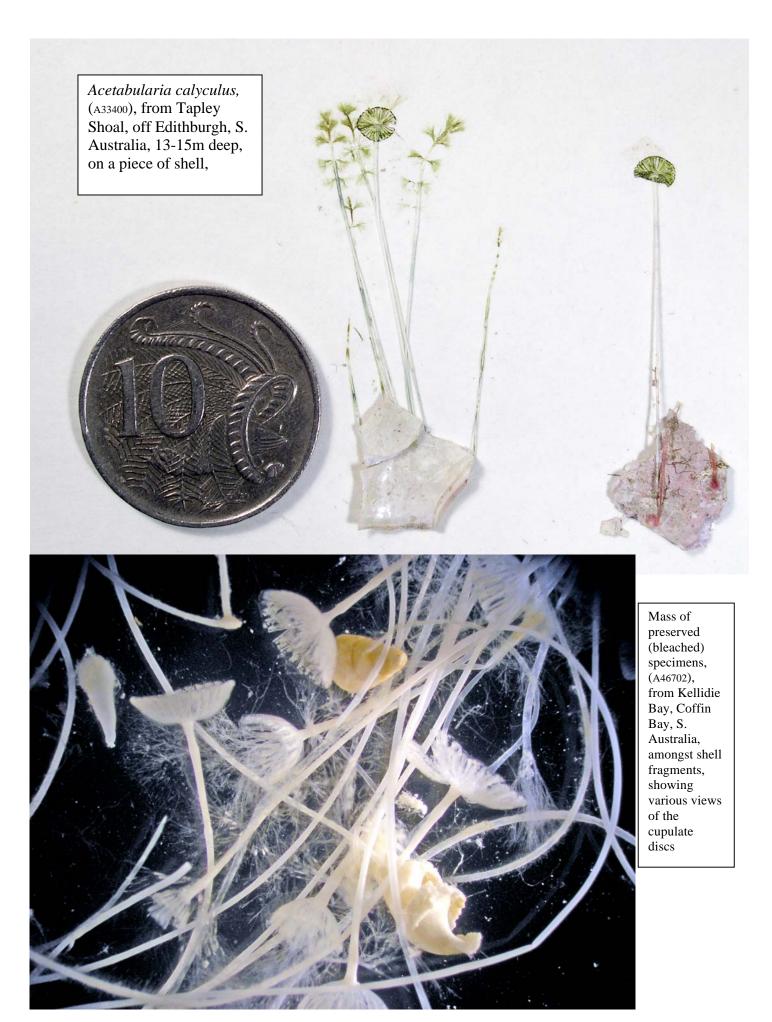
Preserved and bleached specimens (A46702), from Kellidie Bay, Coffin Bay, S. Australia, viewed microscopically

- 1. upper part of a stalk with rings of hairs (ha) and a terminal cupshaped ring of rays (cu)
- 2. detail of the cup and hairs, with outer ring or corona (cor) just visible
- 3. :a mature cup with spherical cysts (cy) from which gametes escape





<sup>\*</sup> Descriptive names are inventions to aid identification, and are not commonly used § name used in Edgar, G. Australian Marine Life, 2nd Ed. (2008) "Algae Revealed" R N Baldock, S Australian State Herbarium, July 2005



\* Descriptive names are inventions to aid identification, and are not commonly used name used in Edgar, G. *Australian Marine Life, 2nd Ed.* (2008)

"Algae Revealed" R N Baldock, S Australian State Herbarium, July 2005