Enteromorpha (*Ulva*) *paradoxa* (Dillwyn) Kützing

50.470

Techniques needed and plant shape


Classification Phylum: Chlorophyta; Order: Ulvales; Family: Ulvaceae

***Descriptive name** green wispy seaweed

Features  plants light green of very thin threads, attached at the base but also floating in calm regions

Special requirements 

view microscopically to see

- young and ***side*** branches, often ***opposite***, with ***single*** cell rows (uniseriate)
- wider thread are cylindrical and ***hollow*** with many lines of cells
- chloroplasts ***band-shaped*** (parietal), open on one side

Occurrences probably worldwide in temperate seas In S Australia, from Port Lincoln, the Coorong and American R. Inlet on Kangaroo I

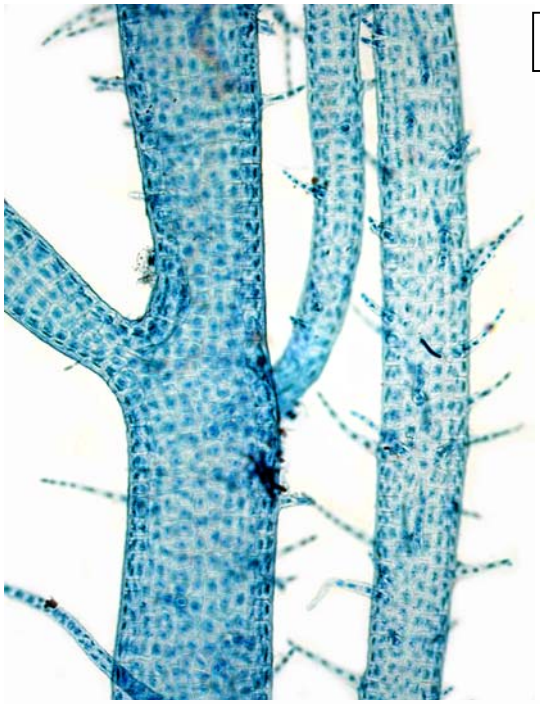
Usual Habitat commonly in *Posidonia* seagrass

Similar Species superficially like many filamentous species, requiring microscopic inspection to locate hollow threads and opposite, uniseriate side branches

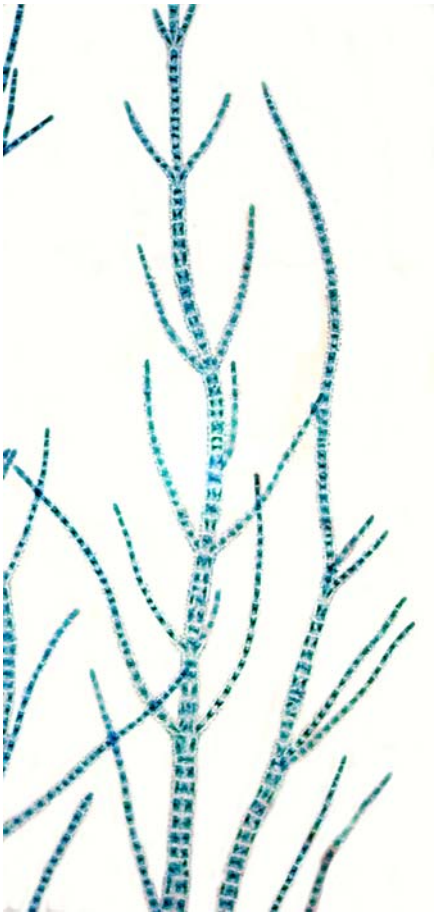
Description in the Benthic Flora Part I, pages 153-155

Details of Anatomy

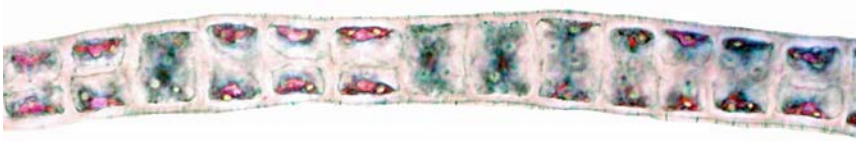
1.



2.



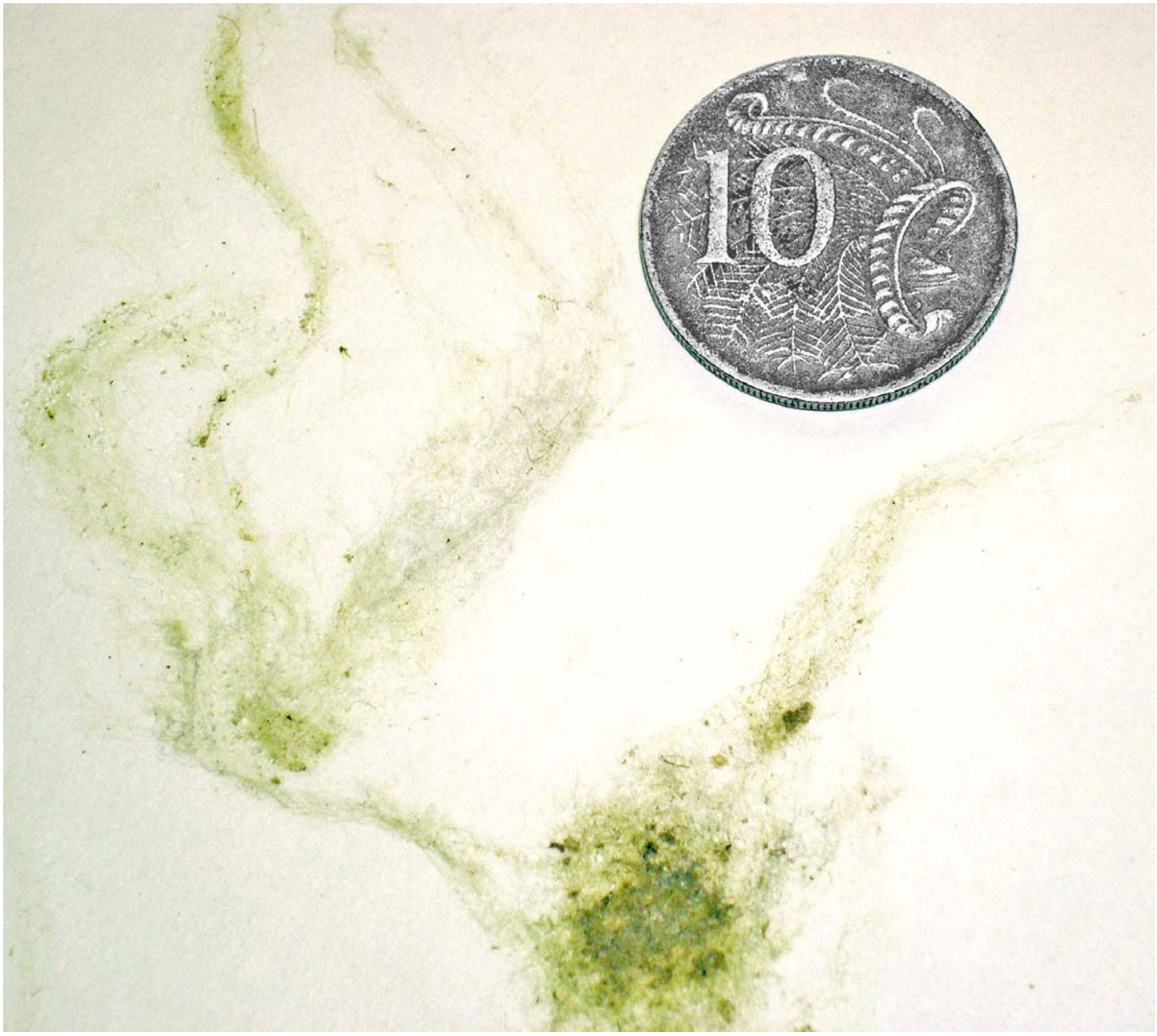
3.

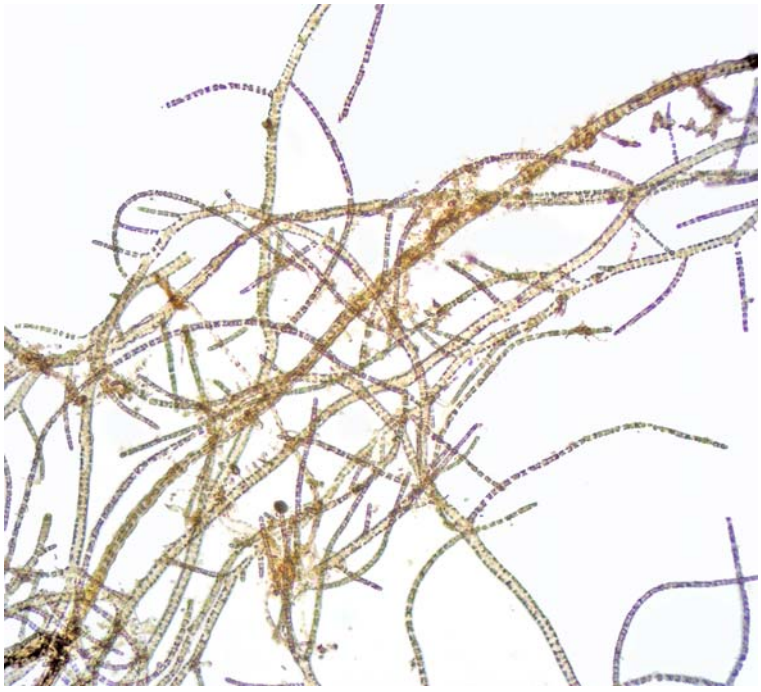


Enteromorpha paradoxa (slide 8299) stained blue and viewed microscopically
1. mature threads with many short side branches of single rows of cells
2. branching pattern near a thread tip, showing the many slender, opposite side branches of a ***single row*** of cells
3. phase contrast cell detail of a young, uniseriate branch, showing band-shaped chloroplasts open on one side each containing several pyrenoids

* Descriptive names are inventions to aid identification, and are not commonly used

"Algae Revealed" R N Baldock, S Australian State Herbarium October 2003, addition November 2009





Enteromorpha paradoxa (Dillwyn) Kützing

4. from the Bay of Shoals, Kangaroo I., S Australia,(A58410) in the lower inter-tidal, loosely epiphytic
5. microscope view of a mass of preserved (bleached), branched threads from Port Lincoln, S Australia

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