Techniques needed and plant shape

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

*Descriptive name
green mangrove threads

Features
plants dirty green, of unattached, tangled threads (filaments) in shallow pools associated with mangroves and samphires

Special requirements
1. initially, threads have a single line of box-shaped cells
2. later, 2 lines of regularly arranged cells occur in threads
3. chloroplasts occupy only part of the cell, wrapped around the inside of walls (parietal)

Occurrences
widely distributed in temperate and tropical coasts

Usual Habitat
in sheltered bays, associated with mangroves and samphires

Similar Species
superficially like many filamentous algae (Cladophora, Ulothrix) but the chloroplasts are parietal

Description in the Benthic Flora
Part I, pages 135-9

Details of Anatomy

Percursaria percursa
(C Agardh) Rosenvinge
filament

MICRO PLANT

Percursaria percursa
stained blue and viewed microscopically at different magnifications
1. a young thread with single row of box-shaped cells and older threads with 2 rows (slide 6710)
2. cell detail(slide 7476), showing the characteristic small, box-shaped cells with stained chloroplasts wrapped like an incomplete girdle around the inside of the cell wall (parietal). Insert:-representation of a parietal chloroplast within a cell

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

“Algae Revealed” R N Baldock, S Australian State Herbarium, October 2003
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* Percursaria percura* (C Agardh) Rosenvinge

3. a specimen (AS2661) from Port Fairy, Victoria, in a shallow pool amongst samphires
4. mass of filaments with single cell lines in young and two lines in mature filaments (slide 7476)

* Algae Revealed* R N Baldock, S Australian State Herbarium, October 2003