Hemineura frondosa
(Hooker & Harvey) Harvey

45.880

Techniques needed and shape



Classification Division: Rhodophyta; Family: Delesseriaceae; Tribe: Delesserioideae
Group: Hemineura

***Descriptive name** Untidy or Fringed Red Cellophane Plant (referring to the variable shape of numerous, curly edge-proliferations of the main fronds)

Features  plants 50-400 mm tall, red to red-brown consisting of ***flat*** main blades (axes) 5-20 mm wide, with midline veins and at their ***edges***, numerous smaller, curly, ragged spindle-shaped side-blades, 2-4mm wide

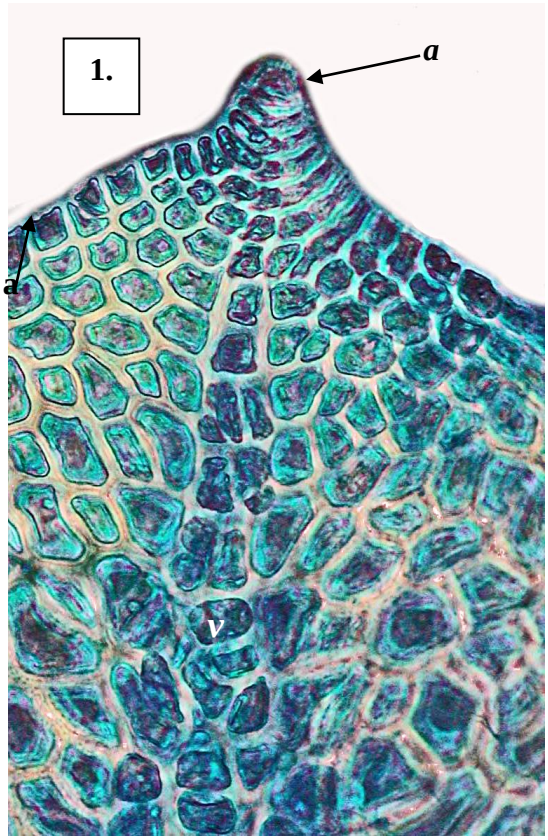
Variations width of main (axial) blades and degree of branching are variable; minute spines may occur at blade edges; fuzzy blue-green algae threads may coat blades

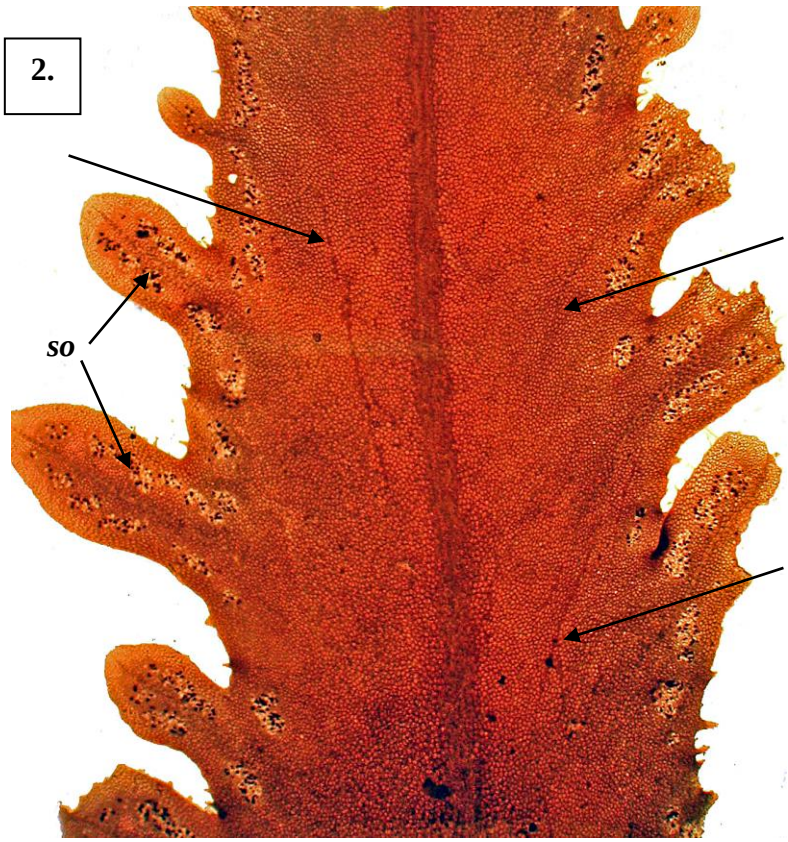
Special requirements  view blades microscopically to find

- single apical cells that each initially produce 4 surrounding cells (pericentral cells) and continue the growth of the blade
- microscopic veins of side-blades are ***unconnected*** to midline veins of axes

Occurrences widespread in southern Australia, from W. Australia to Tasmania
Usual Habitat on rock, often in deep water
Similar Species superficially looks like some *Gigartina* species

Description in the Benthic Flora Part IIID , page 33-34
Details of Anatomy





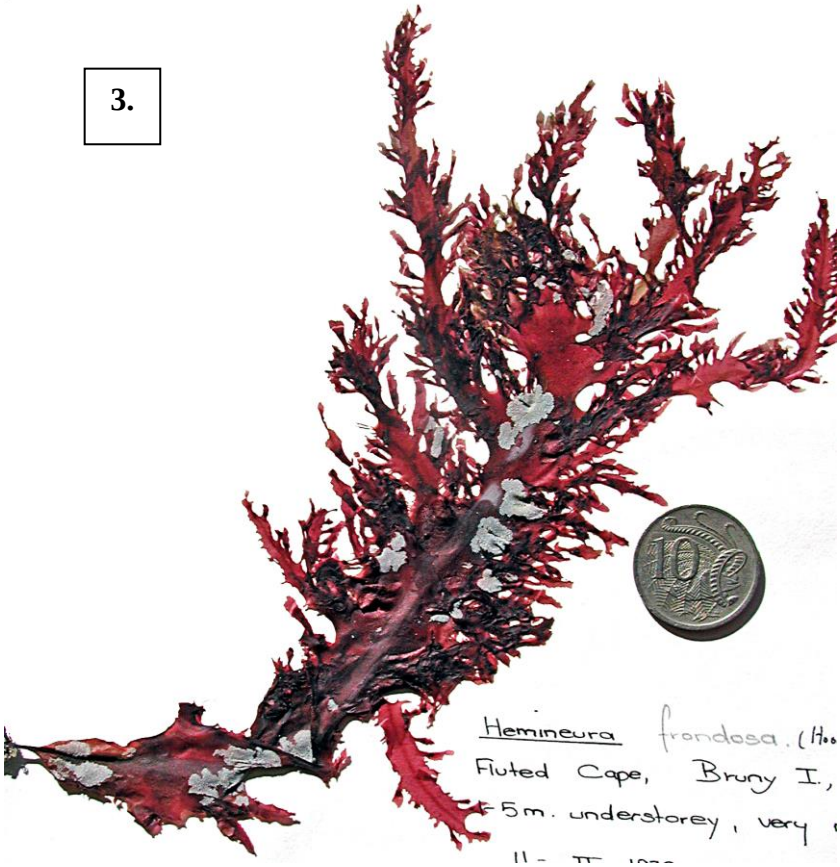
Hemineura frondosa viewed microscopically

1. blade apex stained blue: single apical cell (***a***), developing midline vein (***v***) (slide 11594)
2. main (axis) and side blades: faint side veins (arrowed) ***unconnected*** to axis midline vein; patches of tetrasporangia (sori, ***so***); minute marginal spines (A70506)

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

"Algae revealed", R N Baldock, State Herbarium S Australia, March 2003; additions August 2007, edited April 2014

3.



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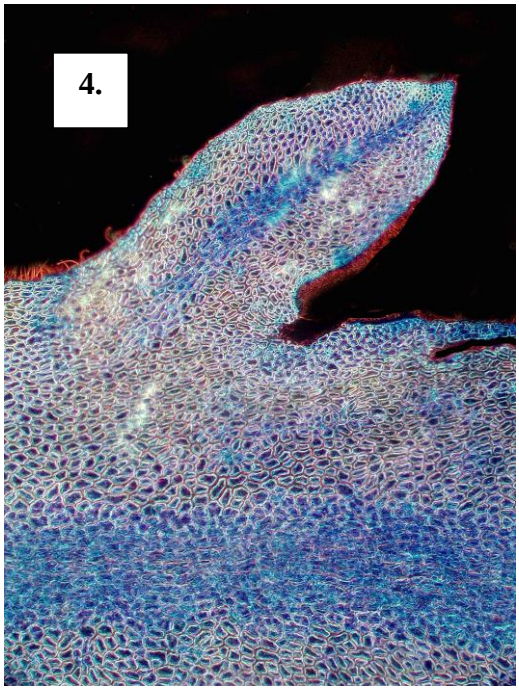

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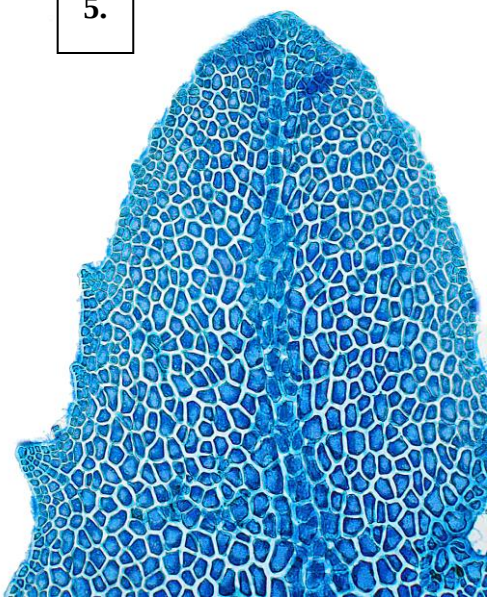

6.

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3, 6. understorey plants from 5m deep, Fluted Cape, Bruny I., Tasmania A41755

4. interference microscopy of part of an axis and side blade: veins (stained blue) are unconnected (slide 11594)

5. blade tip stained blue and viewed microscopically: blade edge spines, midline vein prominent (slide 11594)

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