Pollexfenia pedicellata Harvey

Techniques needed and shape

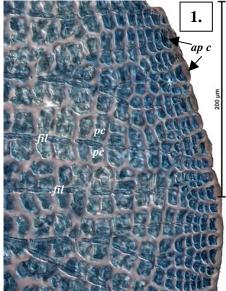
Classification

*Descriptive name **Features**

Occurrences Usual Habitat Similar Species

Description in the Benthic Flora IIID, pp 352-355 **Special Requirements**

Details of Anatomy



Pollexfenia pedicellata

1.

2.

3.

4.





Phylum: Rhodophyta; Order: Ceramiales; Family: Rhodomelaceae; Tribe: Pterosiphonieae

[§]leafweed

plants red-brown, leaf-like, 50-200 mm long, flat and thin, main branches with lobed to elongate side branches 5-12 mm wide on plants from rough-water coasts, 2-4 mm broad in some plants from sheltered coasts, tips rounded

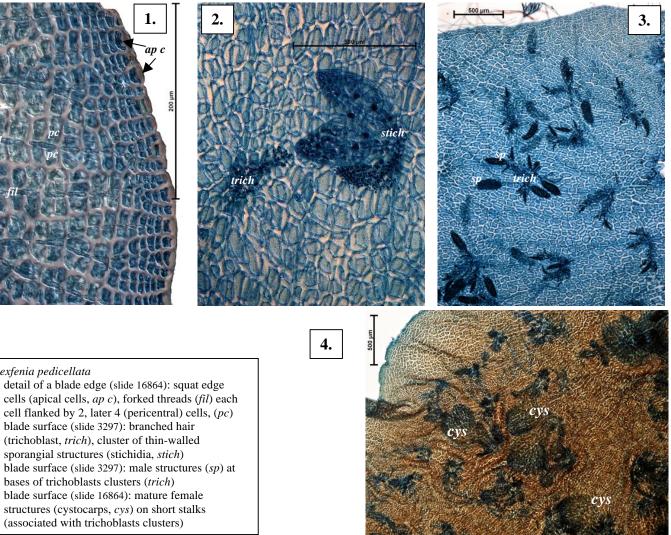
NW W Australia to Victoria and around Tasmania, doubtfully from Queensland

on sea grasses, possibly also on rocks

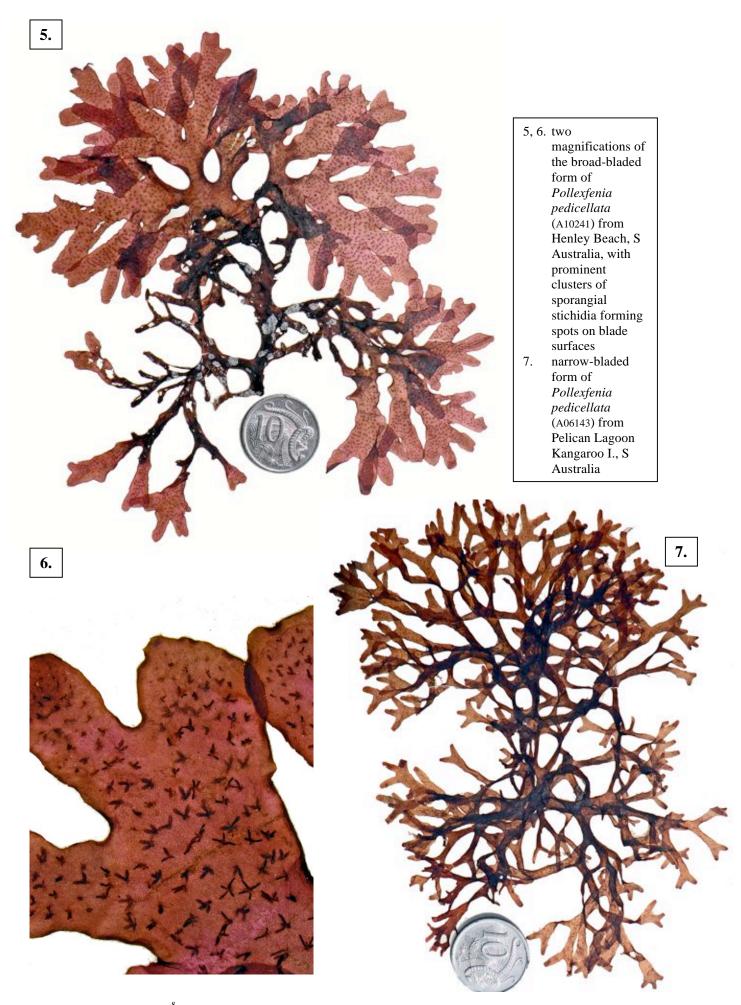
filmy members of the Family: Delesseriaceae, but these are usually lighter red in colour, 1-cell thick, with no specialist hairs (trichoblasts) or sporangial structures (stichidia) and female structures (cystocarps) form pustules and are not flask-shaped as in Pollexfenia

1. view plant edges microscopically to find:

- squat edge cells producing forked threads (fil), each cell flanked by 2, later 4 (pericentral) cells adhering together, forming a blade 2-cells thick with faint veins tufts of branched hairs (trichoblasts) on surfaces of blades
- 2. find, in separate plants, reproductive organs on blade surfaces:
 - egg-shaped mature female structures (cystocarps) on short stalks, walls thin
 - sporangia in a spiral pattern down clusters of thin-walled, structures (stichidia)
 - minute cigar-shaped clusters of sperm on basal cells of trichoblasts



⁸name used in Edgar, G. Australian Marine Life, 2nd Ed. (2008) for Pollexfenia; "Algae Revealed", Robert Baldock, State Herbarium S Australia, November, 2013



[§]name used in Edgar, G. *Australian Marine Life, 2nd Ed.* (2008) for *Pollexfenia*; "Algae Revealed", Robert Baldock, State Herbarium S Australia, November, 2013