## Pollexfenia crispata Harvey

Techniques needed and shape

Classification

\*Descriptive name Features

Occurrences Usual Habitat Similar Species

Description in the Benthic Flora Special Requirements





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

<sup>§</sup>leafweed

plants dark red-brown, leaf-like, 20-50 mm long, main branches 2-4 mm wide, flat and thin, flat-branched several times, tips rounded, blade edges slightly crinkled Spencer Gulf, S Australia to Port Phillip, Victoria

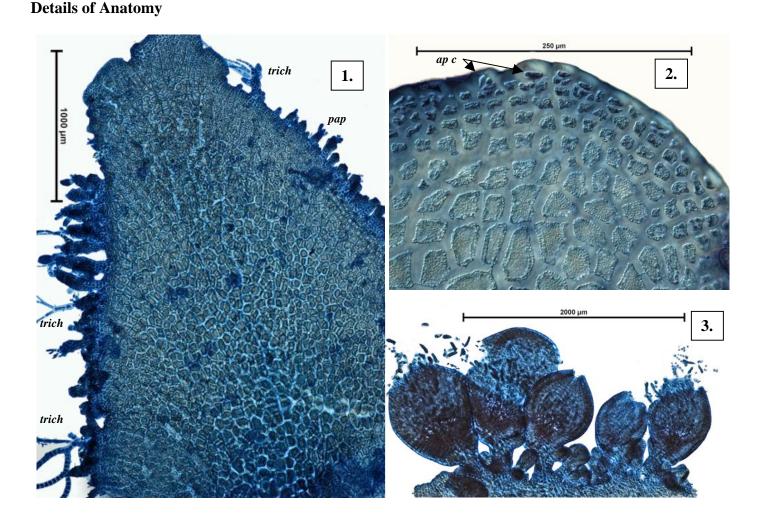
often in dense masses on Sea nymph (Amphibolis) stems

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* 

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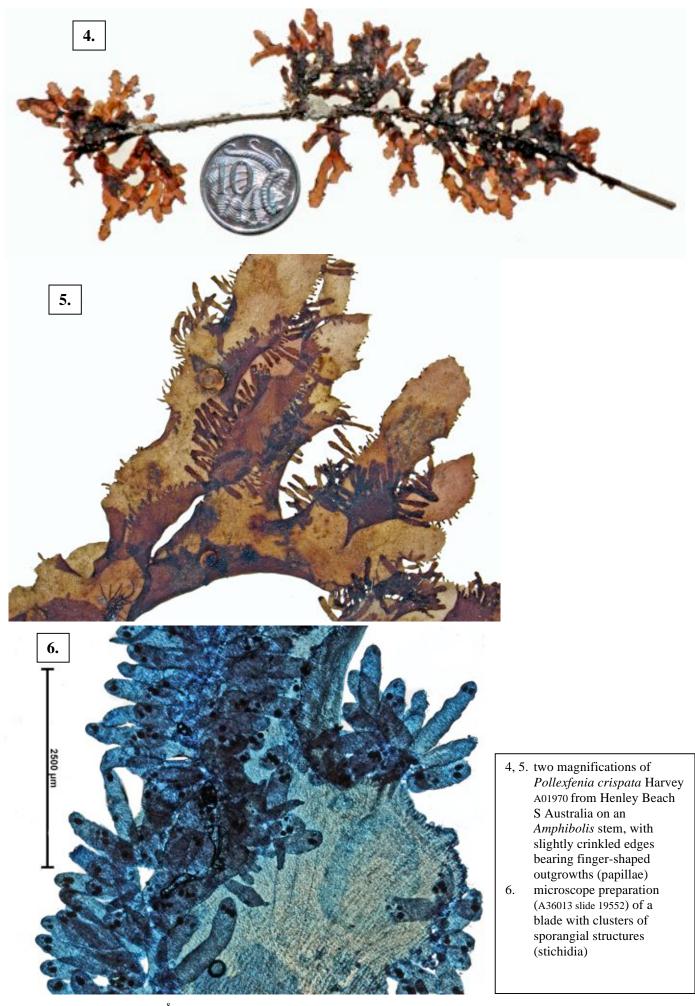


- 1. view plant edges microscopically to find: rows of squat edge cells producing forked columns of cell clusters resulting in a blade 2-cells thick with faint veins; occasional branched hairs (trichoblasts) near blade tips or associated with minute finger-shaped growths (papillae) along blade edges
- find, in separate plants, reproductive organs *along blade edges*: (a). shortly stalked, egg-shaped mature female structures (cystocarps); (b). sporangia in a spiral pattern down thick-walled, cigar-shaped structures (stichidia); (c). minute sperm clusters on papillae



Pollexfenia crispata A36013

- 1. blade tip: branched hairs (trichoblasts, trich) and outgrowths (papillae, pap) at edges; cell columns producing vague veins
- 2. detail of a rounded blade tip: squat edge cells (apical cells, *ap c*) dividing to form columns of cells forming the blade
- 3. cluster of mature female structures (cystocarps, cys), on the blade edge, some slightly squashed by the slide preparation



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