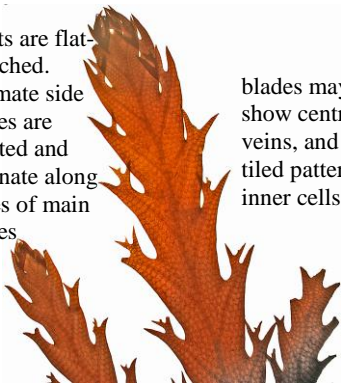


DICTYOMENIA AT A GLANCE, 2ND EDITION

(specimens viewed microscopically are usually stained blue, or have a dark background; the coin scale is 24 mm or almost 1" wide)

FEATURES OF THE GENUS

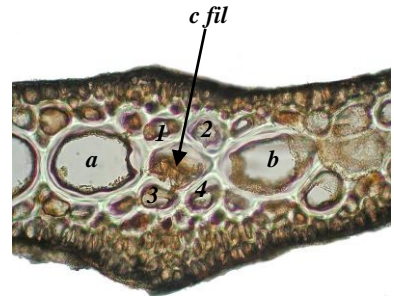
plants are flat-branched. Ultimate side blades are pointed and alternate along edges of main blades



blades may show central veins, and a tiled pattern of inner cells



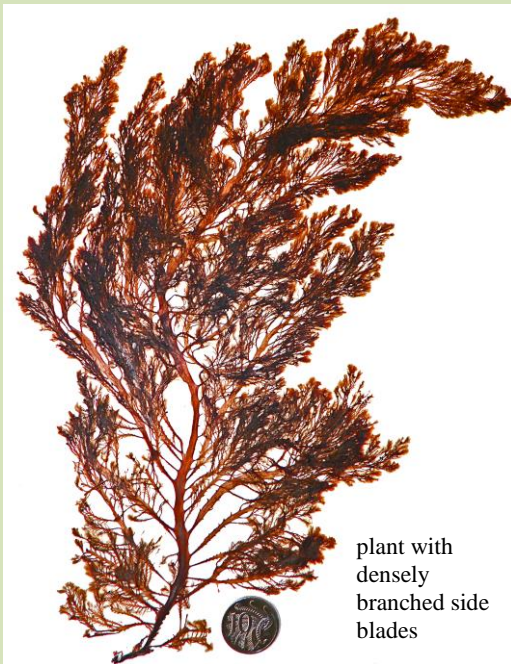
lines of cells forming central veins form at branch tips. Each cell is quickly surrounded by blocks of six flanking cells



blade in cross section through the mid-line vein: central thread (*c fil*), 4 small flanking cells (*1, 2, 3, 4*), two large flanking cells (*a, b*)

SPECIES AT A GLANCE

I. MAIN BLADES FEATHERY – BRANCHED OPPOSITELY SEVERAL TIMES OVER (bi- to tri-pinnate); reproductive structures found within ultimate branches



plant with densely branched side blades



plant with moderately branched side blades



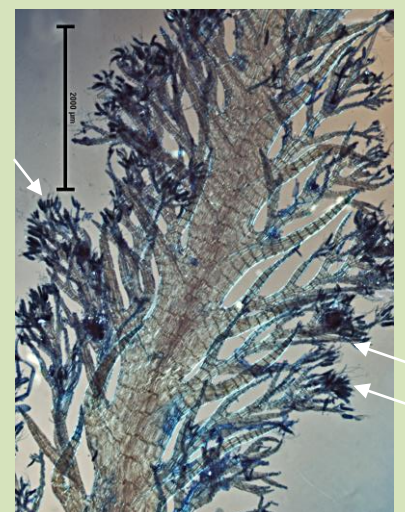
plant heavily denuded basally



Dictyomenia harveyana
a variable species

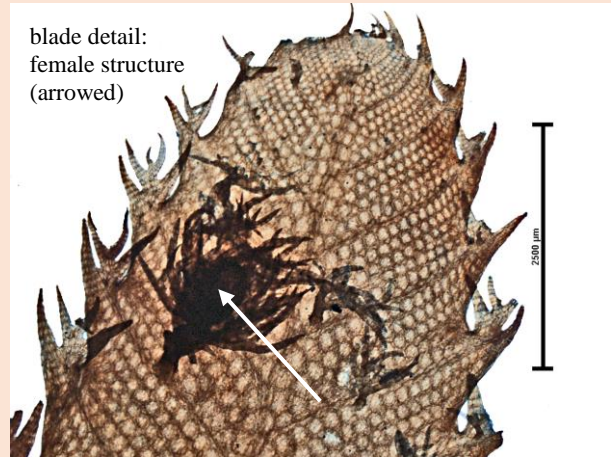
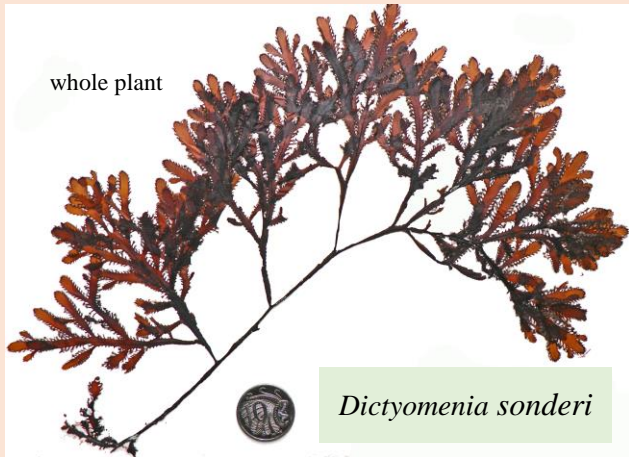
detail of blades: tiled surface pattern, opposite side blades, spikey ultimate branches

male plant: minute sperm clusters (arrowed) at the tips of ultimate branches, a distinguishing feature of this species

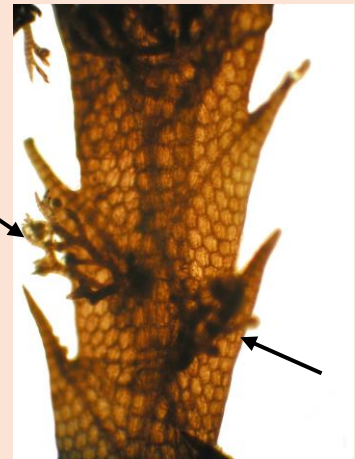
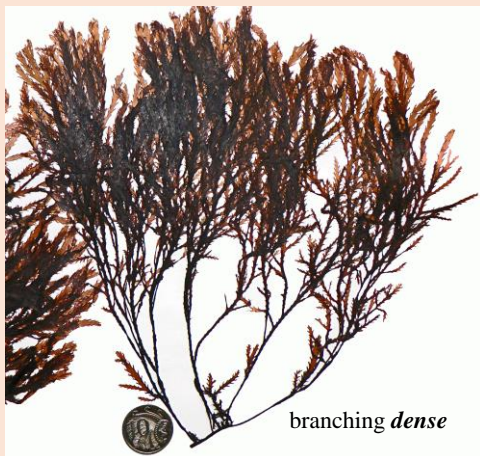


**II. MAIN BLADES MORE STRAP-LIKE – IRREGULARLY AND SPARSELY BRANCHED;
reproductive structures found above veins on blades**

II A. MAIN BLADES 4-6 MM WIDE

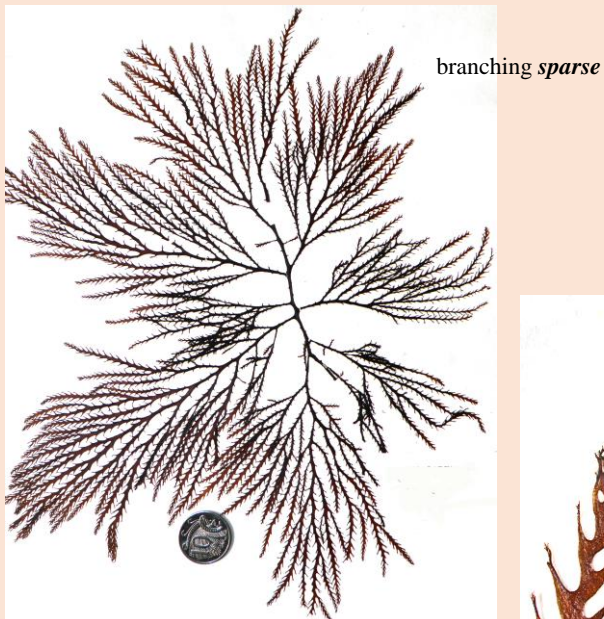


II B. MAIN BLADES 1-3 MM WIDE

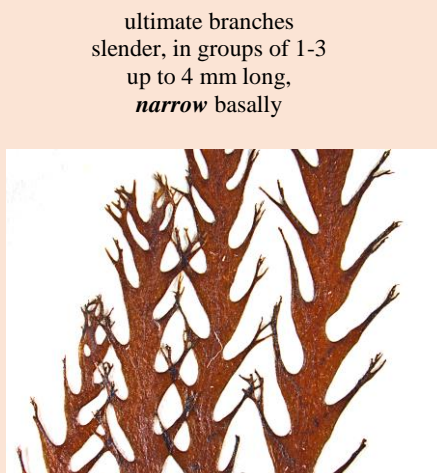


Dictyomenia tridens – a deep-water species in rough-water coasts

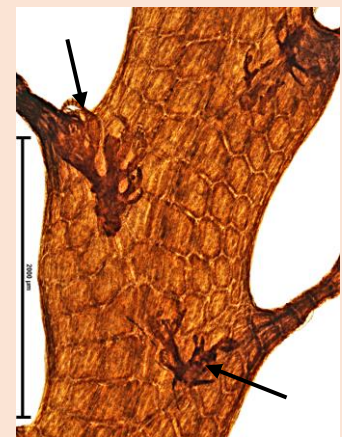
reproductive structures in tufts
(arrowed), above veins



Dictyomenia angusta – may be a form of *D. tridens*



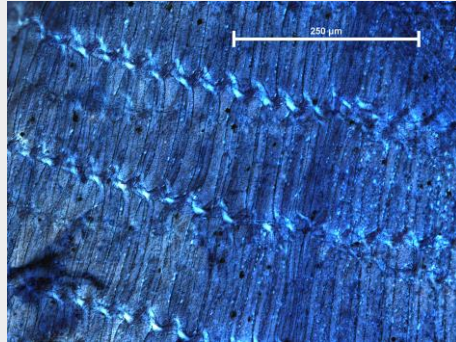
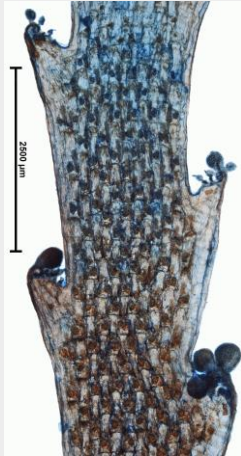
reproductive structures in tufts
(arrowed), above veins



LOOK ALIKE ALGAE

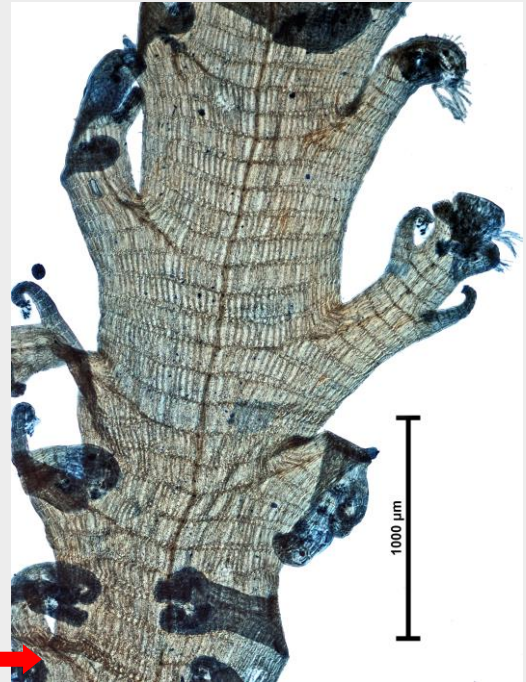
Some flat-bladed algae superficially resemble *Dictyomenia*

Amansia spp



Amansia pinnatifida has pointed ultimate branches from edges of blades. **Patterns of surface cells** are different to *Dictyomenia*

Amansia serrata has curved ultimate branches from edges of blades. **Patterns of surface cells** are different to *Dictyomenia* →



Vidalia spiralis
blades are toothed and *twisted spirally*



***Phacelocarpus* spp.**
blades have a *thick midrib* and margins with curved teeth



***Plocanium* spp.**
blades have alternating series of side blades in 2's or 3's or 4's and reproductive structures in the angle between main and side blades