CLADOPHORA SPECIES AT A GLANCE

a series of Fact Sheets, in several parts

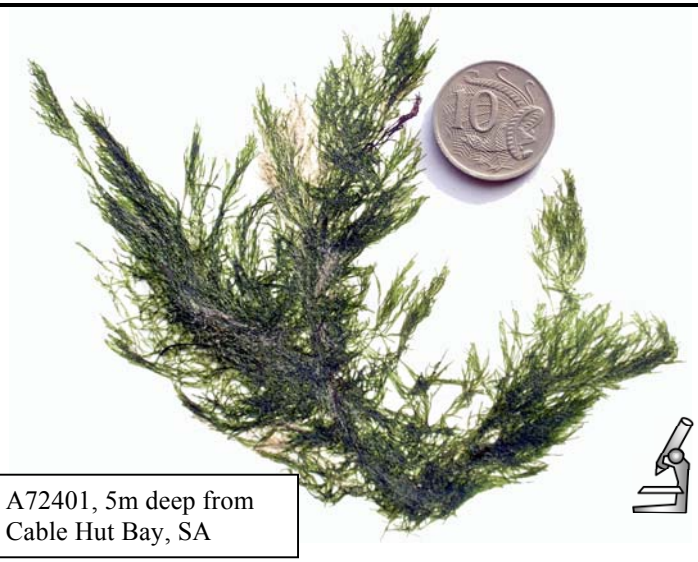
III. PLANTS ATTACHED OR FLOATING BUT WITH DISTINCT UPPER & LOWER PARTS
BASAL CELLS ABOUT THE SAME LENGTH AS UPPER ONES

IIIA. PLANTS BRANCHED EVENLY TOWARDS TIPS; YOUNGER BRANCHES OFTEN BENT INWARDS (REFRACT)

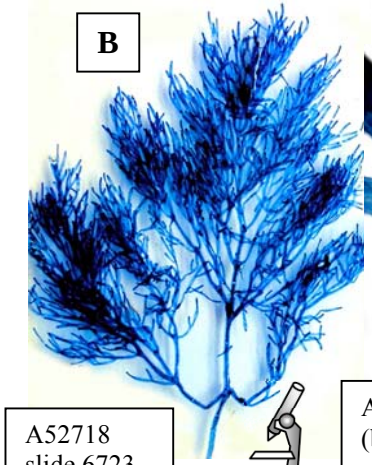
1. *Cladophora valonioides* Sonder —Green tufts

Key features

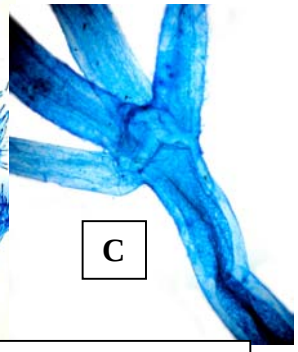
A. plants, densely tufted, single or several intermingled
B. branched evenly towards the tips
C 1-3 side branches at each cell, inserted ***obliquely***
D ***large*** apical cells, 170-300µm wide; L/B = 2-7; ***width of lower cells ≈ upper cells***



A72401, 5m deep from Cable Hut Bay, SA



A52718 slide 6723



A52718 slide 6722 (branch insertion)

A52718 slide 6722; same magnification for all species shown

2. *Cladophora lehmanniana* (Lindenberg) Kützing — Green tufts

Key features

A. small plants are ball-shaped, others tufted
B. branching forked, but often ***one-sided*** at 45° near tips
C. ***large*** apical cells, 100-120µm wide, L/B = 3-8, often slightly ***inflated***

A54419, in shallow water, near the Bluff, Victor harbour,SA

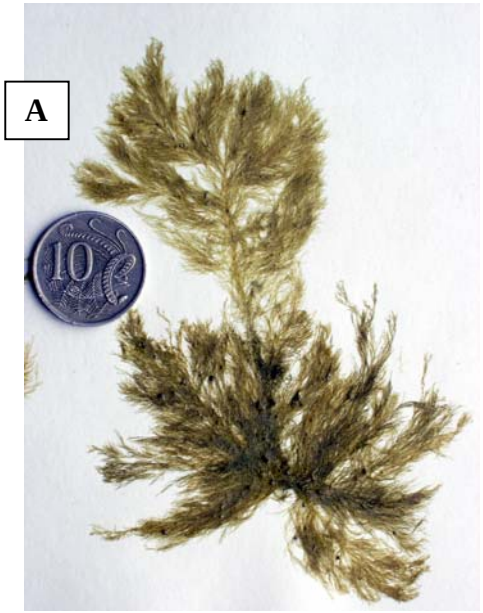
A31818 slide 20717

A34858 slide 20718; same magnification for all species shown

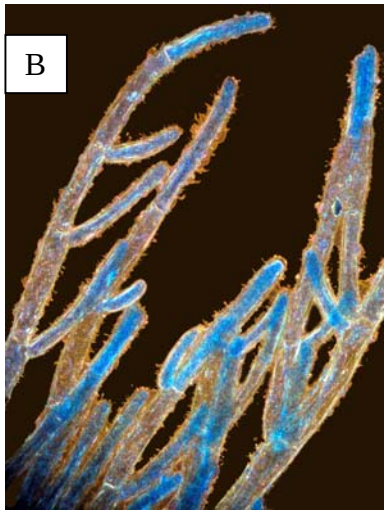
3. *Cladophora laetevirens* (Dillwyn) Kützing — Green tufts

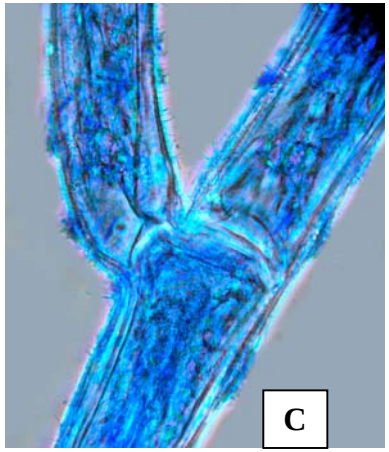
Key features

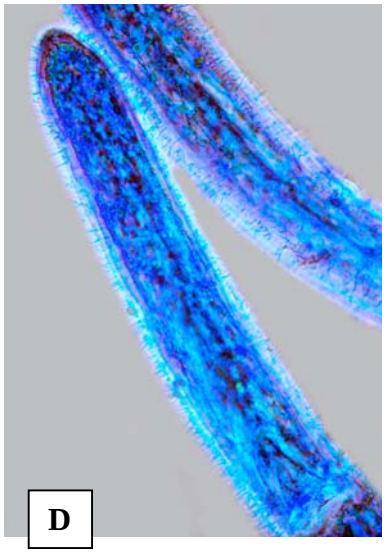
A. dense tufts
B. branching from almost every cell, often ***inwardly***, and ***curved***
C. branches may arise to the side of cross walls
D. apical cells moderately large, ***40-70µm*** wide, L/B = 4-11



A54392 in mid intertidal pools from Walkerville, Victoria







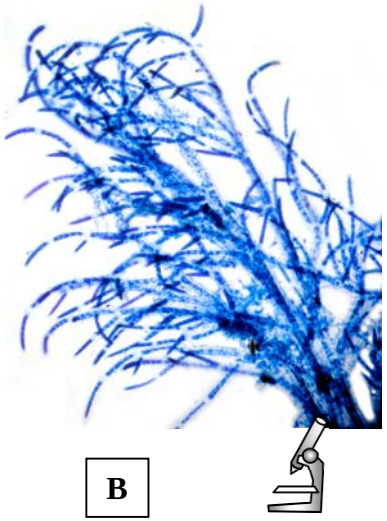
B-D
A52719 slide 6723.
B: dark field illumination

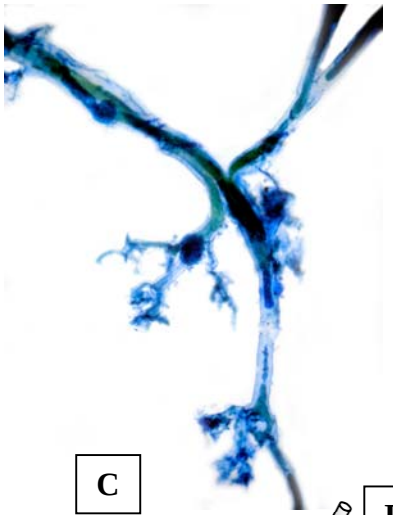
same magnification for all species shown. (Fuzziness of this specimen is due to fine blue-green algal threads on the cell surface

4. *Cladophora dalmatica* Kützing — Calm water, small green tufts

A. plants form small, loose, dense tufts
B branching from almost every cell, mostly ***inwardly***, and ***curved***
C. bases clumped, attached by rhizoids
D. ***narrow*** apical cells, ***15-28µm*** wide, L/B = 3-9

A52568, in lower intertidal turf, Barkers Rocks, W Coast Yorke Pen., SA





B-C
A52561 slide 6680

A52561 slide 6680; same magnification for all species shown

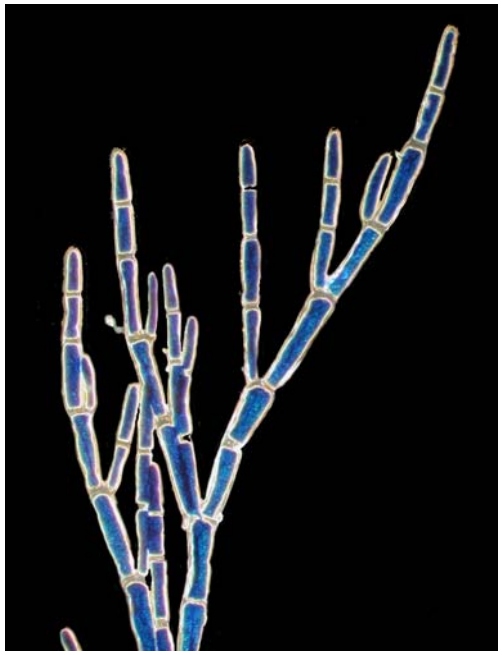
5. *Cladophora vagabunda* (Linnaeus) van den Hoek — Cosmopolitan green tufts

A. plants densely clumped, forming loose masses
B. branching from almost every cell, ***straight*** or ***slightly*** curved and ***one-sided***, threads ***increasing rapidly*** in width at their apices
C. ***small*** apical cells, 30-50µm wide, L/B = 2-16, cylindrical (RHS) or tapering (LHS)

A

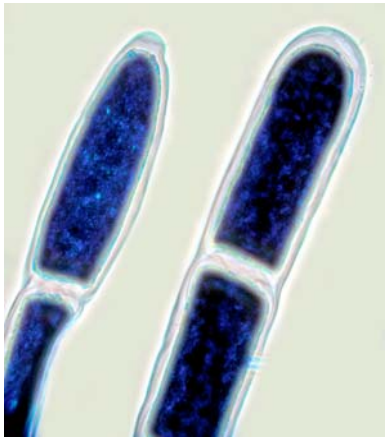
A52835 from shallow water, Nora Creina Bay, SE of SA

B



A 52643 slide 6694; dark field illumination

C



A 52643 slide 6694; same magnification for all species shown