CLADOPHORA SPECIES AT A GLANCE

a series of Fact Sheets, in several parts

III. PLANTS ATTACHED, SOMETIMES FLOATING, BUT WITH DISTINCT UPPER & LOWER PARTS BASAL CELLS ABOUT THE SAME <u>LENGTH</u> AS UPPER ONES (but can be wider)

IIIB. PLANTS BRANCHED <u>UNEVENLY</u> TOWARDS TIPS (YOUNGER BRANCHES MIXED WITH OLDER ONES)

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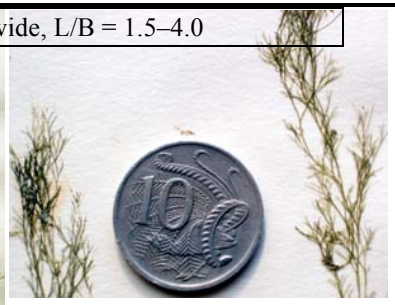
1. *Cladophora hutchinsioides* van den Hoek & Womersley —Green strands

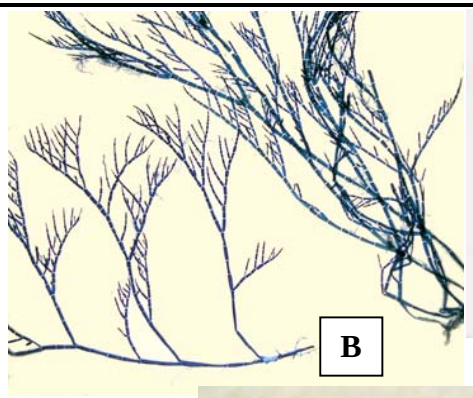
Key features

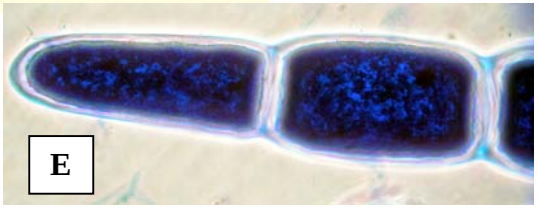
- A. plants are ***unevenly*** loose-stranded
- B., C. young tips are ***fan-shaped***, or ***one-sided.*** Short side threads are added in lower parts, generally on ***inner*** sides of branches
- D apical threads are ***tapered***
- E apical cells are ***large***, ***60-120µm*** wide; L/B = 1.5–3.0

D. apical cells are 20–30µm wide, L/B = 1.5–4.0



A21325, 1-3m below water, Harbour Board wharf, Port Adelaide, SA



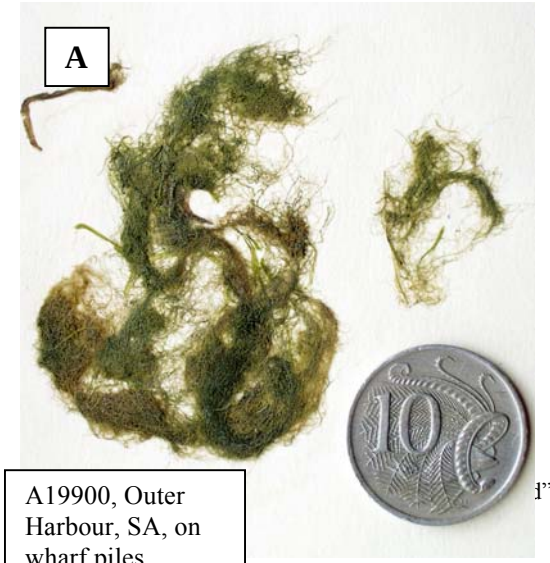


B–E: A52644 slide 6693

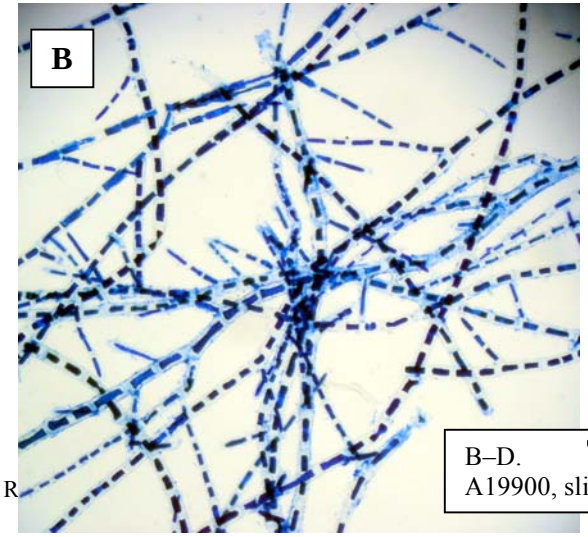
2. *Cladophora montagneana* Kützing — Soft tufts

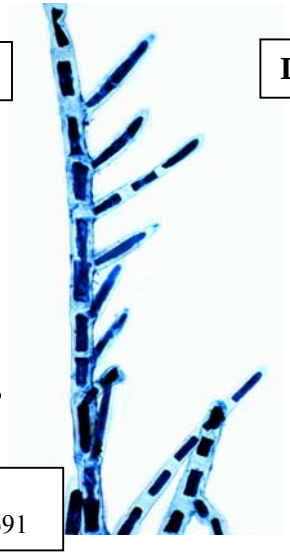
Key features

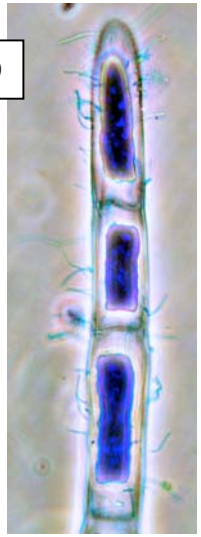
- A. plants form soft ***clumps*** in protected bays
- B. main branches are long, ***small-celled***, sparsely branched
- C. ***thorn-like*** side branches form on many cells at ***>45°***



A19900, Outer Harbour, SA, on wharf piles







B–D. A19900, slide 6691

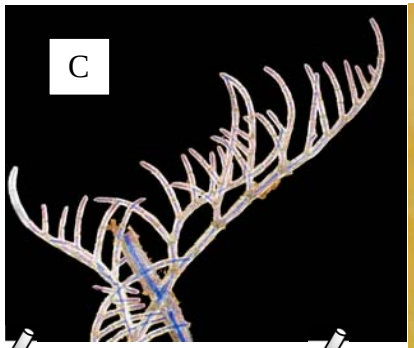
3. *Cladophora albida* (Hudson) Kützing — Green pompons

Key features

A. plants pompon-like, on rough water coasts
B., C older parts ***irregularly*** branched, tips are ***finer***, curved, and branched on their ***inner*** sides
D. apical cells are cylindrical, ***16–32µm*** wide, L/B = 2–6.5

A A57347 in the lower intertidal on the reef at Beachport, SA

B A52683 slide 6716



slide

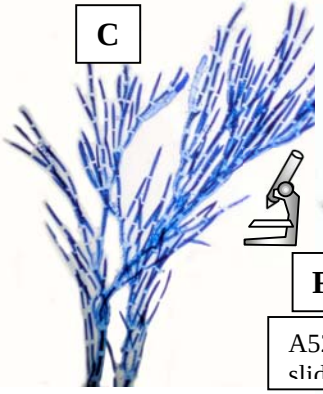
D A19581 slide

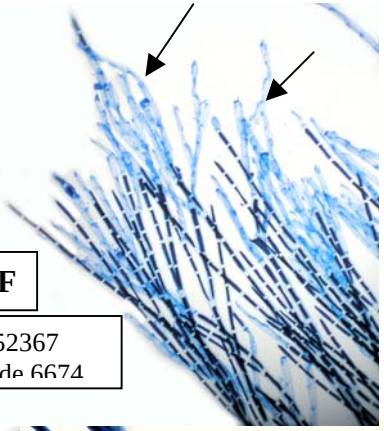
6. *Cladophora crinalis* Harvey — Green turf

A., B plants densely tufted on wave-washed rocks
C. thread ends are paintbrush-like
D., E bases of threads mainly unbranched, attached by rhizoids
F. rows of reproductive cells occur at tips (arrowed), ghost like when empty
G. the ***large*** apical cells have slightly tapering tips, ***50–80µm*** wide; L/B = 3.5–8.0

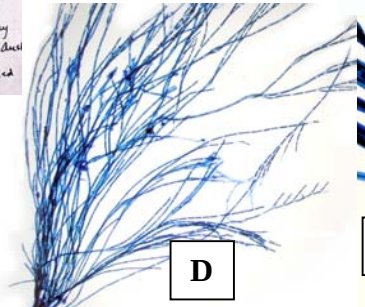
A14959c in shaded parts of the mid intertidal, Venus Bay, SA

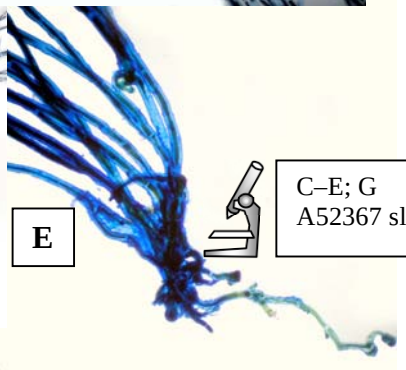
A52690 large plant in the mid intertidal, Stinky Bay, SA





A52367 slide 6674





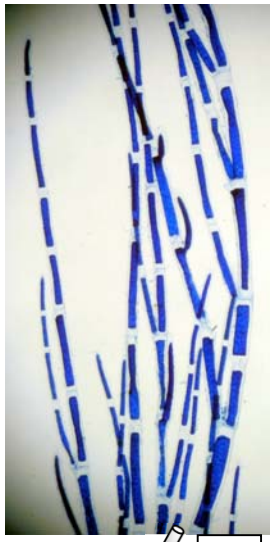
C–E; G A52367 slide 6673

5. *Cladophora sericea* (Hudson) Kützing
—Fine tufts

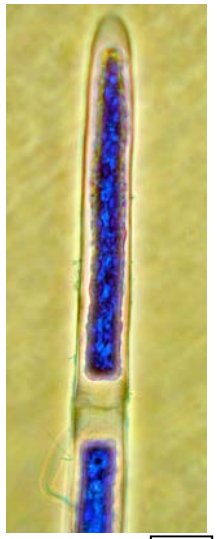
A. plants form densely branched, ***soft tufts*** in sheltered bays
B. long unbranched or ***sparsely forked*** threads occur
C. threads narrow ***rapidl***y near tips
D. one-sided branches ***pressed together*** may be common
E. apical cells taper; 30-55µm wide, L/B = 3–10

A31817, lower intertidal, entrance to Kellidie Bay, SA

A31817 slide 6706



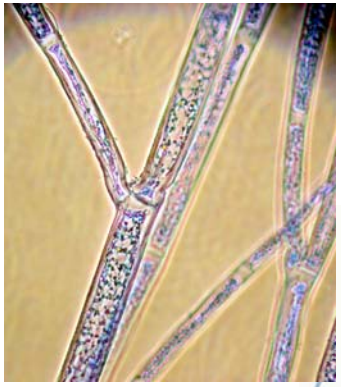
C–E: A21041 slide 6704



6. *Cladophora vadorum* (Areschoug) Kützing
—Green strands

A. plants are ***hair-like***, and found in sheltered bays & estuaries
B., C. main branches are forked, with widely-spaced side branches at ***angles >45°,*** inserted ***obliquely***
D. short side branches are added in lower parts almost at ***90***°
E. apical cells are ***long***, with a tapering tip; ***30–50µm wide,*** L/B = 7-13

A32744 from Crawfish Rock, Western Port, Victoria



B.–E.:A32744 slide 7649