CHAETOMORPHA AT A GLANCE

(see Womersley, Part I, pages171-180 for full descriptions)

Correct identification of species requires microscope examination of plants in order to find:

- 1. sizes of cells and cell *proportions* measured as the ratio of length to breadth (L/B)
- 2. for species attached to hard surfaces, the shape of basal cells and rhizoids
 - 3. whether the threads *increase in diameter* from the base upwards

(microscope images below are stained blue; the coin scale is 24 mm or about 1" in diameter)







- cells \approx 90 μ m wide

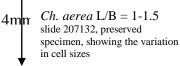
· on pneumatophores of mangroves or under samphires in the mi-to upper-intertidal of calm bays

Ch. billardieri Cells L/B=2-4 slide 7441, stained blue

Ch. melagonium Cells L/B =1.5-2.0 slide 7443, stained blue

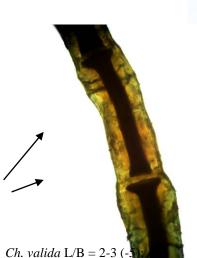


- threads clumped
- cells L/B = 1.5-2.5
- cells $\approx 140 \ \mu m$ wide
- floating in shallow inlet waters





Ch. linum L/B = 0.5-1slide 20714, preserved specimen

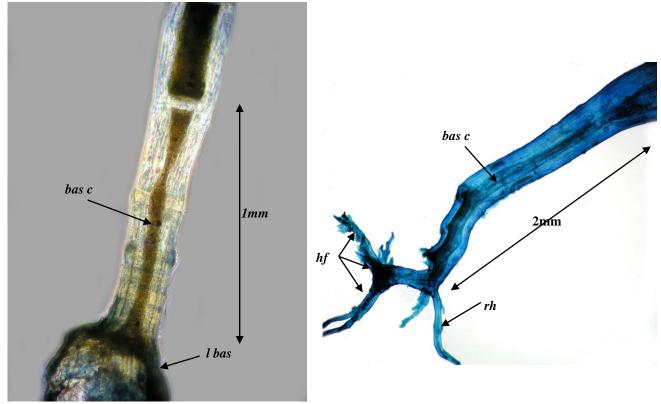


walls undulate (arrowed) slide 20715, preserved specimen



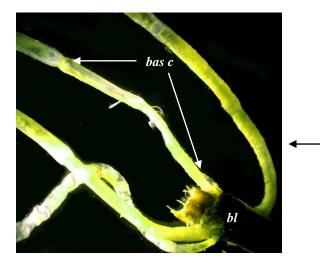
Ch. coliformis Cells L/B = 0.5-1.0A52991

For threads attached to hard surfaces —



Chaetomorpha aerea showing the elongate basal cell (*bas c*) with a lobed base (*l bas*) attached to a sand grain, slide 20713 using phase contrast microscopy

Chaetomorpha melagonium, showing the elongate basal cell (bas c), expanding at the tip, bearing rhizoids (*rh*) and a developing lobed basal holdfast (*hf*) slide 7443 stained blue



Chaetomorpha coliformis showing the contrast in shape between a single basal cell (bas c, attached to a piece of seagrass blade, bl) and cells of the upper part of a thread shown at right

