CYSTOPHORA AT A GLANCE - IDENTIFYING ONLY THOSE SPECIES THAT HAVE EASILY **RECOGNISABLE FEATURES**

1.0 **IF YOUR SPECIMEN HAS FLOATS (VESICLES)** floats are not always present on specimens

1.1 VESICLES SPHERICAL



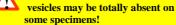
C. botryocystis grape-like bunches of vesicles at bases of laterals





C. congesta –

(dried specimen) numerous, spherical vesicles, 3-7 mm across, single on short side branches at bases of secondary axes But



C. monilifera – 1 (-2) vesicles roughly spherical 3-6 mm across at the base of laterals

> C. grevillei 1(-2) spherical to slightly eggshaped vesicles 5-10 mm across on long stalks at the base of laterals

C. subfarcinata – small globe-shaped vesicles usually abundant, 2-4 mm across, amongst clustered ramuli

> but, vesicles may be totally absent on specimens from rough water

habitats



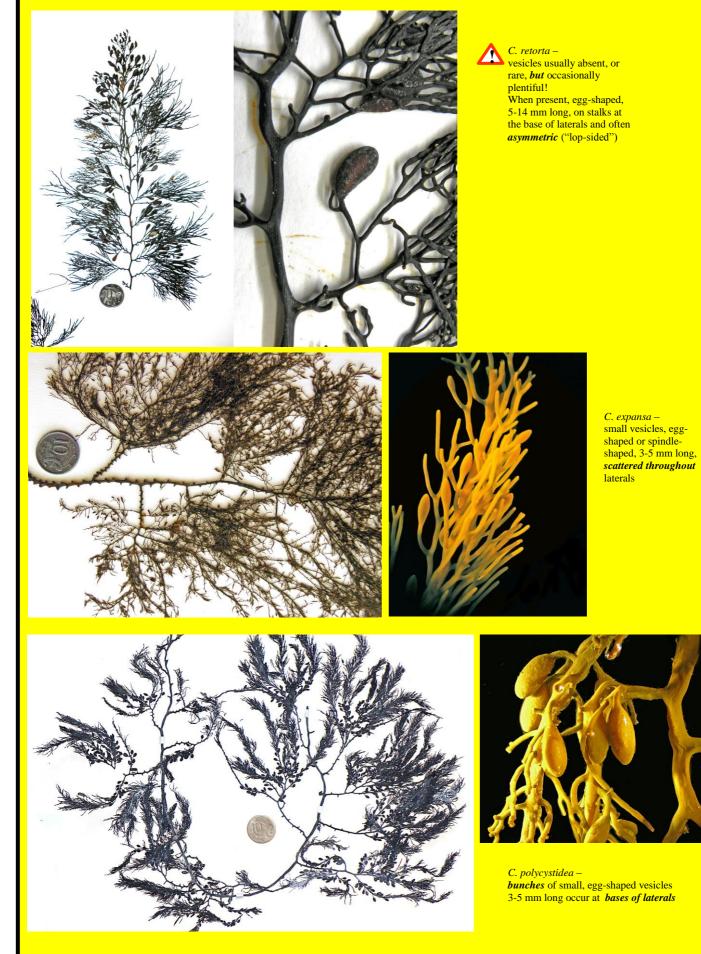


C. racemosa -1(-2) spherical to slightly egg-shaped vesicles 3-8 mm across, on stalks at the base of laterals



C. platylobium – single, spherical vesicles 5-15 mm across at the base of laterals

1.2 VESICLES EGG-SHAPED



2.0. IF YOUR SPECIMEN HAS A UNIQUE AXIS (MAIN BRANCH) 2.1 AXES STRAP-SHAPED





C. platylobium – axis thick, compressed, up to 15 mm wide, lateral branches flat and almost as wide as the axis





C. retorta – axis narrow, up to 7 mm wide, strap-like, laterals stiff



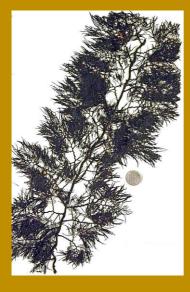
C. harveyi – axis narrow, up to 8 mm wide, straplike when dry, but lens-shaped in cross section when fresh,

with peg-like stubs of old side branches on the face of the axis

probably restricted to SW of WA



2.2 AXES IN CROSS SECTION ARE SQUARE OR RECTANGULAR



C. siliquosa – axis up to 5 mm wide and about as thick as wide





C. gracilis – axis up to 4 mm wide



2.3 AXES WITH FLANGES





C. congesta– axis up to 10 mm wide, with a broad flange running into side branches



*C. retroflexa*axis up to 10 mm wide, with a broad flange running into side branches



2.4 IF BASES OF LATERAL BRANCHES FORM DOWNWARD-POINTING, PLECTRA-LIKE STUBS



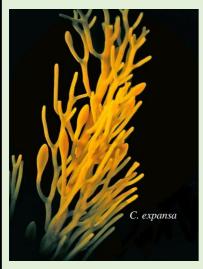
C. brownii axis coarse, up to 10 mm wide and 4 mm thick, laterals with stubby ultimate branches (ramuli) branched in one flat surface

> *C. monilifera*– axis about 8 mm wide and 2 mm thick, laterals branched in 3 untidy rows, ramuli long and slender



3.0 IF YOUR SPECIMEN HAS SIDE BRANCHES WITH RADIALLY BRANCHED ULTIMATE BRANCHES (RAMULI)

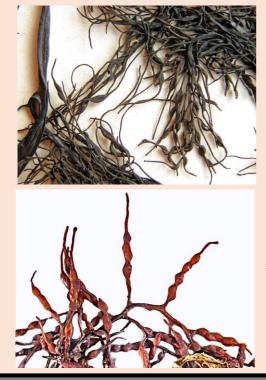








4.0 IF FERTILE BRANCHLETS (RECEPTACLES) HAVE STRIKING CHARACTERISTICS 4.1 RECEPTACLE WITH A WIRY, STERILE TIP



C. cymodoceae – receptacle bead-like, ending in a wiry tip

C. expansa – receptacle with prominent bulges



C. gracilis - receptacle narrow





C. subfarcinata – receptacle flattened, sterile tip long

C. tenuis – receptacle with bulges

4.2 RECEPTACLES WITH BEAD-LIKE PARTS SEPARATED BY LONG STERILE PARTS





C. polycystidea

4.3 RECEPTACLES WITH A WAVY OUTLINE



 Baldock, R.N. (2018). Cystophora at a glance: identifying only those species that have easily identifiable characteristics. 8 pages.

 Algae Revealed. Adelaide: State Herbarium of South Australia.

 flora.sa.gov.au/algae_revealed

4.4 RECEPTACLES FLAT (COMPRESSED)







C. racemosa – receptacles spindle-shaped

C xiphocarpa – receptacles long and flexuous

