## Yorke Peninsula Algae Identification Slates

# BENTHIC ALGAL SURVEY CODES (REVISED) used by REEF WATCH

PLANTS	brown	red	green
The leathery kelp	BKelp		
Ecklonia radiata			
Other canopy	<b>BBig</b> (>20cm)	<b>RBig</b> (>20cm)	<b>GBig</b> (>20cm)
forming plants			
Smaller plants	BSmall (<20cm)	RSmall (<20cm)	GSmall (<20cm)
Coralline algae		RCoral	
Sea lettuce			GLettuce
All seagrass			GRass

ANIMALS	Sponges and other animals attached to reef Mussel beds Mobile animals	ATtan MUssels MOban
COVER	Turfing – "moss" (<2cm)	TUrf
	Encrusting - "paint"	ENcr
	Rock or rubble	ROck
	Sand, mud or deep silt (>5cm thick)	SAnd
	Missing data	DDd



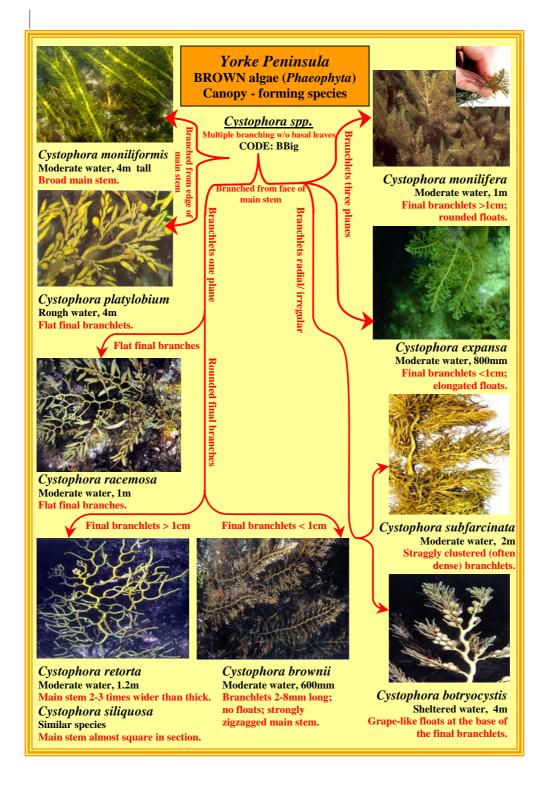
WARNING: Algae identification may be difficult and should be checked with full description of species. Dimensions in captions to photos are common maximum heights (unless otherwise specified) for southern Australia.

Reef Watch encourages divers to identify algae more specifically wherever possible. For further information <a href="https://www.reefwatch.asn.au">www.reefwatch.asn.au</a>

Produced in cooperation with State Herbarium (Adelaide) & Reef Watch Images provided by D. Muirhead, G. Edgar, J. Brook and R. N. Baldock

Government of South Australia

A joint initiative of the Department for Environment and Heritage Northern and Yorke Natural Resources Management Board





#### Yorke Peninsula BROWN algae (*Phaeophyta*) Canopy - forming species

CODE: BBig.

Sargassum spp.
Sheltered to exposed reef, 1m

Fertile upper branches grown annually (spring), often missing

Basal leaves often leafy (perennial bottom part)



Sub-genus Phyllotrichia
Basal leaves, slender flat and divided
cross-section of stalks =

WARNING: Identification is difficult

Sub-genus Arthrophycus.
Basal leaves are large.
cross-section of stalks =



Sub-genus Sargassum
Basal leaves often slender.
cross-section of stalks =

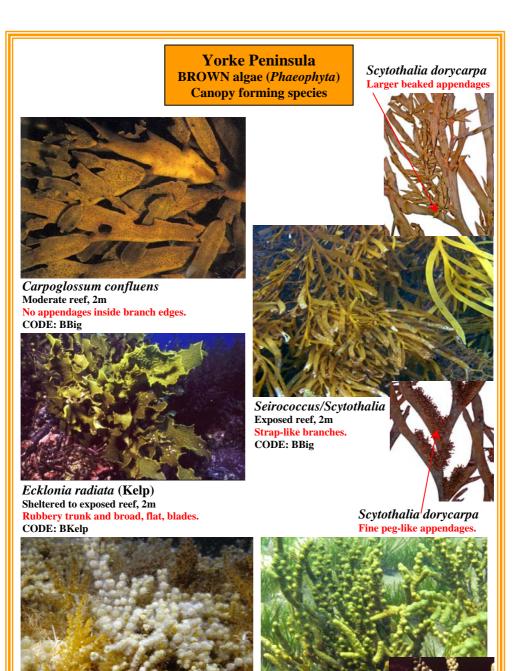
Multiple branching around the main stem; without basal leaves.

Caulocystis cephalornithos Sheltered reef, 1m Floats are cigar shaped.





Caulocystis uvifera Sheltered reef, 600mm Floats are egg-shaped.



Scaberia agardhii

Warty surface

CODE: BBig

Sheltered reef/seagrass, 2m

Hormosira banksii (Neptune's Necklace)

Exposed intertidal reef, 300mm

Consists of chains of balls.

CODE: BBig





#### Yorke Peninsula **GREEN** algae (Chlorophyta)

Codium pomoides 50mm diameter Ball-shaped, hard. CODE:GSmall



Codium spp. (forked) 400mm

Dark, velvet surface. CODE: GBig

Requires microscope detail for identification to species



Dictyosphaeria sericea 50mm

Irregular lobe. **CODE: GSmall** 



Sea lettuce; two cell layers thick.

Enteromorpha spp. 400mm **CODE:** GLettuce Hollow tubular fronds.

**CODE:** GLettuce

Caulerpa flexilis 400mm Fern-like. CODE: GBig



Caulerpa obscura Dark green, shaggy,

mini pine trees CODE: GBig



Caulerpa brownii 200 mmErect axes densely covered by branchlets.

**CODE:** GSmall



Caulerpa cactoides Sand and seagrass beds, 400mm Large (10-20mm) club-shaped branchlets.

**CODE:** GBig



Caulerpa geminata 150mm Small (2-4mm) ovoid branchlets.

CODE: GSmall





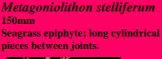
### Yorke Peninsula RED algae (Rhodophyta) limey, rough or leathery

WARNING: Identification of red algae to species is difficult

Calcareous red algae **CODE: RCoral** 



Haliptilon roseum Flat-branching; stalkjoints; box-shaped.





Cheilosporum sagittatum Sections are arrow-headed.



Amphiroa anceps **200mm** Branches flat; forked tips.



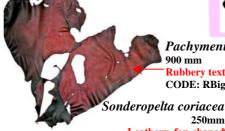


900 mm Rubbery texture





Osmundaria prolifera Leathery, flat, twisted, surface rough. CODE: RBig



Leathery, fan-shaped (Sonderopelta has an underside



Pachymenia orbicularis



Botryocladia obovata 200mm Dense clusters of grape-like branches. **CODE: RSmall** 

