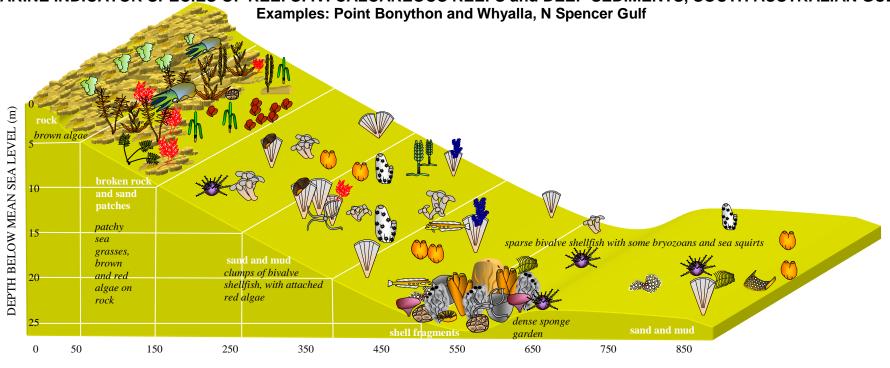
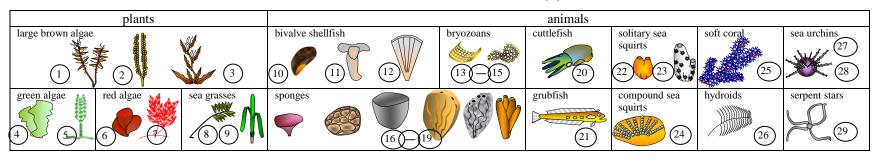
MARINE INDICATOR SPECIES OF REEFS: IV. CALCAREOUS REEFS and DEEP SEDIMENTS, SOUTH AUSTRALIAN GULFS



DISTANCE FROM MEAN LOW WATER LEVEL (m)



THUMBNAIL SKETCHES OF INDICATOR ORGANISMS — DISTRIBUTED ACCORDING TO DEPTH

The coin scale is 23 mm across, or almost 1 inch in diameter



grapeweed, Caulocystis uvifera has gas floats directly on the central stalk



sea lettuce, Ulva can form dense green mats of crinkly, tissue-thin plants running from the lower intertidal to shallow water



sea nymph, Amphibolis, is a leafy sea grass with wiry stems



Caulerpa cactoides has jointed balloon-shaped parts



eel grass, fine leaved Zostera and Tape grass, Posidonia



Scaberia agardhii has scaly or warty branches



Haloplegma is a red alga with felty lobes about 50 mm across. It sometimes forms dense mats at depth



10. bivalve shellfish, Mytilus (with white worm-tubes attached)



Sargassum has leafy or divided basal parts and feathery upper parts 7. often bearing small gas floats



Asparagopsis taxiformis is a fluffy red alga about 200 mm tall



11. bivalve hammer oyster, Malleus



12. razor shell, Pinna, pointed tip buried in mud, about 300 mm tall



13. bryozoan, lace coral, Petralia, 100 mm across, easily broken





yellow sea squirt, Polycarpa, about 80 mm tall



bryozoan, lace coral, Triphyllozoon, 30 mm across









23. giant sea squirt, Phallusia obesa



cup sponge, 300 mm tall (Photo: D Muirhead)



giant cuttlefish, Sepia apama, to 500 mm long



24. compound ascidian colony



21. spotted grubfish, Parapercis ramsayi, 200 mm long



25. soft coral, Telesto (syn: Carajoa)



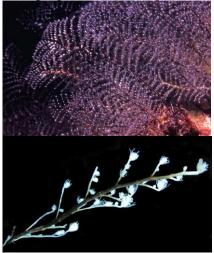
26a. hydroids (amongst bryozoans, sponges, colonial sea squirt)



27a. sea urchin, *Heliocidaris*, to 80 mm across, is a heavy browser of algae



28. thorny sea urchin, *Tubaria*, centre ball about 30 mm wide, spines thick and thorny



26b. hydroid, microscopic views



27b. a "shell" or test of *Heliocidaris* washed up on the beach and denuded of spines

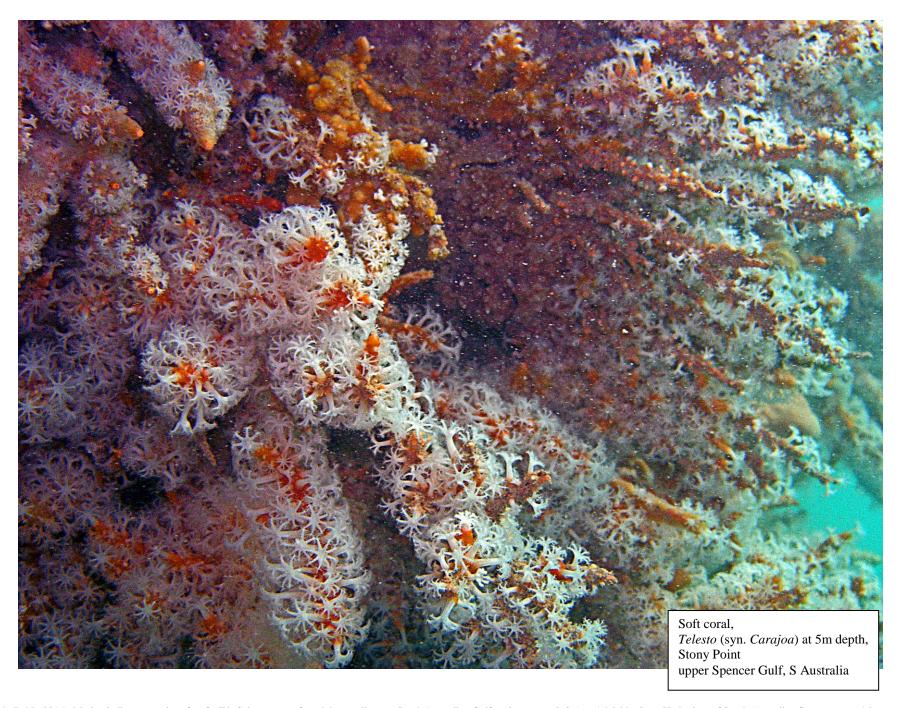


29. tiny brittle star, *Amphipholis* about 25 mm across, hides amongst algae and bryozoans, sometimes in large numbers



Bottom dwellers on coarse shell grit – red *Haloplegma*, yellow *Polycarpa*, and 3 colour variations of the giant sea squirt, *Phallusia*, growing from the side of a razor clam heavily encrusted with sponges and other animals

Baldock, R. N. (2015). Marine indicator species of reefs: IV. Calcareous reefs and deep sediments, South Australian Gulfs. *Algae Revealed*. 5pp. Adelaide: State Herbarium of South Australia. flora.sa.gov.au/algae_revealed



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