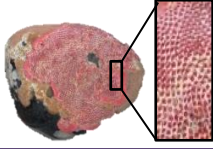
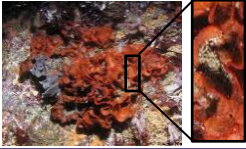

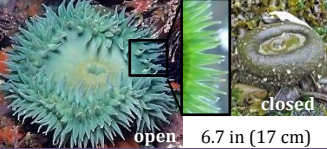
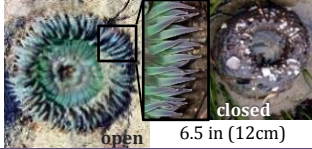

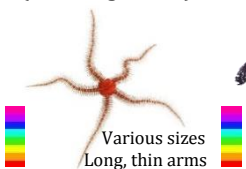
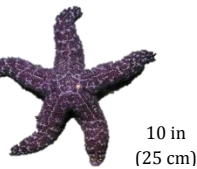

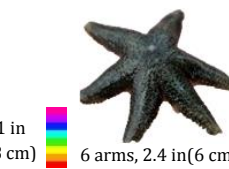


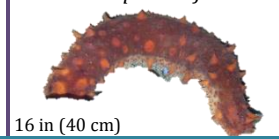
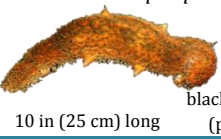
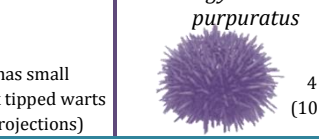



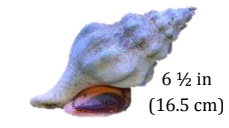
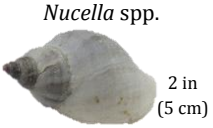


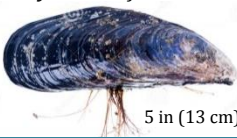
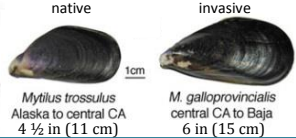
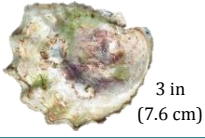




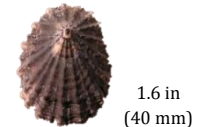
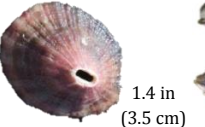

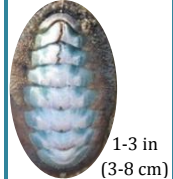


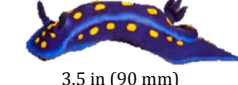







# Southern California Tidepool Organisms

Bryozoans – colonial moss animals		Cnidarians – stinging invertebrates			
<b>Derby Hat</b> Bryozoan <i>Eurystomella</i> spp. 	<b>★ Red</b> Bryozoan <i>Watersipora</i> spp. 	<b>Aggregating</b> Anemone <i>Anthopleura elegantissima</i> 	<b>Giant Green</b> Anemone <i>Anthopleura xanthogrammica</i> 	<b>★ Sunburst</b> Anemone <i>Anthopleura sola</i> 	
<b>Echinoderms – spiny-skinned invertebrates</b>					
<b>Sea Stars</b>					
<b>Bat Star</b> <i>Patiria miniata</i> 	<b>Brittle Star</b> (various genuses) 	<b>Ochre Star</b> <i>Pisaster ochraceus</i> 	<b>★ Giant Pink</b> Sea Star <i>Pisaster brevispinus</i> 	<b>★ Six Armed</b> Sea Star <i>Leptasterias</i> spp. 	<b>★ Sunflower</b> Star <i>Pycnopodia helianthoides</i> 
					<i>note signs of wasting</i>
<b>Sand Dollar</b>		<b>Sea Cucumbers</b>		<b>Urchins</b> <i>note signs of balding</i>	
<b>Eccentric</b> Sand Dollar <i>Dendraster excentricus</i> 	<b>California</b> Sea Cucumber <i>Parastichopus californicus</i> 	<b>Warty</b> Sea Cucumber <i>Parastichopus parvimensis</i> 	<b>★ Purple</b> Urchins <i>Strongylocentrotus purpuratus</i> 	<b>Red</b> Urchins <i>Strongylocentrotus franciscanus</i> 	
		has small black tipped warts (projections)	4 in (10 cm)	7 in (17 cm)	
<b>Mollusks – soft invertebrates with a shell or remnant shell</b>					
<b>Snails (single, spiraled shelled invertebrate)</b>					
<b>Turban</b> Snail <i>Tegula</i> spp. 	<b>Periwinkle</b> Snail <i>Littorina</i> spp. 	<b>Kellett's Whelk</b> Snail <i>Kelletia kelletii</i> 	<b>Dog Whelk</b> Snail (Dogwinkles) <i>Nucella</i> spp. 	<b>Unicorn Whelk</b> Snail <i>Acanthinucella</i> spp. 	<b>Scaly Tube</b> Snail <i>Serpulorbis squamigerus</i> 
<b>Bi-Valves (2 shelled invertebrates)</b>					
<b>★ California Mussel</b> <i>Mytilus californianus</i> 	<b>Blue Mussel</b> <i>Mytilus trossulus/galloprovincialis</i> 	<b>★ Olympia Oyster</b> <i>Ostrea lurida</i> 	<b>★ Pacific Oyster</b> <i>Crassostrea gigas</i> 	<b>Rock Scallop</b> <i>Crassedoma gigantea</i> 	<b>Abalone</b> <i>Haliotis</i> spp. 
<b>Limpets</b>				<b>Chitons</b>	<b>Octopus</b>
<b>Giant Keyhole</b> Limpet <i>Megathura crenulata</i> 	<b>Rough</b> Limpet <i>Macklintockia scabra</i> 	<b>Volcano</b> Limpet <i>Fissurella volcano</i> 	<b>Lottia</b> spp. Limpets 		
<b>Nudibranchs</b>					<b>Sea Hare</b>
<b>California Aglaja</b> <i>Navanax inermis</i> 	<b>★ California Blue Dorid</b> <i>Felimare californiensis</i> 	<b>★ Spanish Shawl</b> <i>Flabellina iodine</i> 	<b>★ Hopkin's Rose</b> <i>Okenia rosacea</i> 	<b>★ Phidiana hiltoni</b> 	

This document was prepared in 2016 by the Aquarium of the Pacific (AOP) for educational purposes only, not for sale. The original source is hyperlinked to each image in the digital version of this document.

★ Snapshot CAL Coast's "Most Wanted Species"  
 Organism comes in a variety of colors

# Southern California Tidepool Organisms

## Arthropods – invertebrates with jointed limbs & an exoskeleton

### Barnacles

#### Common Acorn Barnacle

*Balanus glandula*  
Diameter  
¾ in (1.8 cm)  
High  
0.4 in (1 cm)



#### Gooseneck Barnacle

*Pollicipes polymerus*  
High  
3 in (10 cm)



#### Little Brown Barnacle

*Chthamalus dalli*  
Diameter  
¼ in (6 mm)  
High  
0.1 in (4 mm)



#### ★ Red Thatched Barnacle

*Tetraclita rubescens*  
Diameter  
2 in (5.1 cm)  
High  
2 in (5.1 cm)



#### ★ White-Ribbed Red Barnacle

*Megabalanus californicus*  
Diameter  
2.4 in (6 cm)  
High  
2 in (5.1 cm)



### Crabs

#### Hermit Crab

*Pagurus* spp.  
1 ½ in  
(4 cm)



#### Kelp Crab

*Pugettia* spp.  
1 ½ in  
(4 cm)



#### Masking (Decorator) Crab

*Loxorhynchus crispatus*  
3.5 in  
(8.8 cm)



#### Striped Shore Crab

*Pachygrapsus crassipes*  
1 ½ in  
(4 cm)



### Lobsters

#### ★ California Spiny Lobster

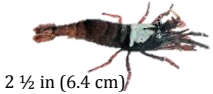
*Panulirus interruptus*  
12 in  
(30 cm)  
note observations of molts



### Shrimp

#### Broken back Shrimp

*Heptacarpus* spp.  
2 ½ in  
(6.4 cm)



#### Ghost Shrimp

*Callinassa* spp.  
5 in  
(12.5 cm)



#### Grass Shrimp

*Penaeus monodon*  
12 in  
(30 cm)



### Isopods

#### Kelp Isopods

*Idotea wosnesenskii*  
1.6 in  
(40 mm)



#### Rock Lice Isopods

*Ligia occidentalis*  
1 in  
(2.5 cm)



#### Scavenging Isopod

*Cirolana harfordi*  
¾ in  
(2 cm)



## Annelids – segmented worms

#### Sand-Castle Tube Worm

*Phragmatopoma californica*



#### Spiral Tube Worm

*Spirorbis* spp.  
2.4 in  
(6 cm)



## Chordates – animals with a backbone

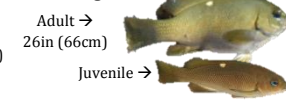
#### Kelp Fish

*Heterostichus* spp.  
24 in  
(61 cm)



#### Opaleye Fish

*Girella nigricans*  
Adult →  
26 in (66 cm)  
Juvenile →



#### Woolly Sculpin Fish

*Clinocottus analis*  
7 in  
(18 cm)



## Non-Animals

### Phaeophytes – Brown Algae

#### Feather Boa Kelp

*Egregia menziesii*



#### Giant Kelp

*Macrocystis pyrifera*



#### Laminaria

*Laminaria* spp.



#### Pod-weed

*Halidrys siliquosa*



#### Spindled Rockweed

*Pelvetia fastigiata*  
on protected rocks



#### Rockweeds

*Fucus gardneri*



#### ★ Devil Weed

*Sargassum horneri*



#### Japanese Wireweed

*Sargassum muticum*



#### ★ Sea Cabbage Kelp

*Saccharina sessilis*  
Stipe-less



#### ★ Sea Palm

*Postelsia palmaeformis*  
23.6 in (60 cm tall)  
on unprotected rocks



#### ★ Wakame

*Undaria pinnatifida*



### Chlorophytes – Green Algae

#### Caulerpa

*Caulerpa taxifolia*



#### Sea Lettuce

*Ulva* spp.



#### Dead Man's Fingers

*Codium fragile*



### Rhodophytes – Red Algae

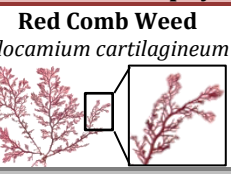
#### Encrusting Coralline Algae

*Lithothamnion* spp.



#### Red Comb Weed

*Plocamium cartilagineum*



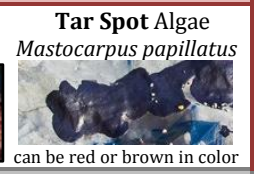
#### Tidepool Coralline

*Corallina* spp.



#### Tar Spot Algae

*Mastocarpus papillatus*  
can be red or brown in color



### Anthophytes – Flowering Plants

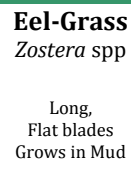
#### Pickleweed

*Salicornia virginica*



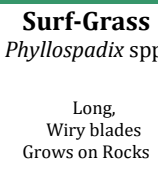
#### Eel-Grass

*Zostera* spp.  
Long,  
Flat blades  
Grows in Mud



#### Surf-Grass

*Phyllospadix* spp.  
Long,  
Wiry blades  
Grows on Rocks



### Porifera – Sponges

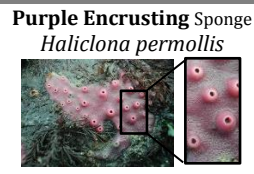
#### Orange Encrusting Sponge

Red – Orange, Soft texture



#### Purple Encrusting Sponge

*Haliclona permollis*



#### Red Encrusting Sponge

*Ophlitaspongia* spp.  
Red – Yellow, velvety texture

