

# Marine Life of Yaquina Head

By Ed White

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Minor Updates June 1998

Revised and Updated by Terry Morse, January 2003

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## Introduction

The following is a partial list of animals and algae found at Yaquina Head Outstanding Natural Area. It is divided into lists of Algae, Invertebrates, Fish, and Marine Mammals. For information on birds, please look at one of the excellent lists by Range Bayer. A more complete list of invertebrates was completed by Dr. Sylvia Yamada.

Yaquina Head is a rocky headland located just north of Newport, Oregon. It has nearly two miles of rocky intertidal habitat at low tide. It is protected from collecting, which provides a refuge for many animals. In 1994, a new intertidal habitat was completed at Yaquina Head, created from a former rock quarry. Called Quarry Cove, this handicapped accessible area is unique in being a man-made environment.

The lists were compiled over a period of six months from March to September 1995. This list should not be considered complete. It probably holds many inaccuracies, as there was not enough time to identify everything positively. Many species included in the list were either personally observed and identified, or were listed in archaeological reports from digs at Yaquina Head. Species listed in archaeological reports were identified as "historical" or "archaeological." One species (*Gnathostomula karlingi*) was listed in Kozloff's Marine Invertebrates of the Pacific Northwest as being first described at Yaquina Head in 1971. Unfortunately, I have not found this tiny elusive worm.

Each list contains information as to where each species would probably be found. The Spray Zone consists of areas that typically only get water from waves on the highest tides or during storms. Here some small snails and limpets can be found. The High Tide Zone is below this. It is the area within a few feet of the average high tide line. The Mid Tide Zone comes next; it often has mussels and Gooseneck Barnacles. The Low Tide Zone is the part that is covered with water most of the time. It is populated by such creatures as the Sunflower Star and the Gumboot Chiton. Another environment I have listed is the pelagic, the waters surrounding Yaquina Head. Deep waters can be defined as waters more than sixty feet deep. Tidepools are areas of water left behind by a receding tide.

I have broken up Yaquina Head into several different parts. Quarry Cove (QC) is the newly constructed habitat and the areas immediately around it. The Marine Gardens (MG) is the tidepools accessible from the staircase near the lighthouse. Fisherman's Path (FP) is on the south

side of the headland with a difficult path leading to this exposed location. This area should be avoided by the general public due to the danger of sneaker waves. I have been hit twice by waves there.

When tidepooling at Yaquina Head please remember that the environment here is very fragile. Watch your step. It is against the law to take animals. It is also a good idea to watch the waves and the tides. There are several places at Yaquina Head where you could get stranded.

**Reviser's Note:** Only a few species have been added to Ed White's 1995 list. Most of the revision involves updating the scientific names of the species and adding higher-level classification information to show relationships between species, particularly among the bony fishes. All scientific names and higher-level groupings have been checked against the Integrated Taxonomic Information System of the U.S. Department of Agriculture (<http://www.itis.usda.gov/>), except for the subkingdoms of plants, which were gleaned from ITIS and from other sources on the web. The only species I was not able to locate in the ITIS database is *Gnathostomula karlingi* (Phylum Gnathostomulida), mentioned above by Ed. – **TM**

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Location Key		
QC = Quarry Cove	MG = Marine Gardens (Cobble Beach)	FP = Fisherman's Path
Subtidal = below lowest tides	Pelagic = open ocean	

# Marine Mammals

<b>Whales, Porpoises: Order Cetacea</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>Status</b>	<b>Location(s)</b>	<b>Notes</b>
Gray Whale	<i>Eschrichtius robustus</i>	Migratory, Summer Resident	Pelagic	
Humpback Whale	<i>Megaptera novaeangliae</i>	Migratory	Pelagic	Possible
Right Whale	<i>Eubalaena glacialis</i>	Migratory	Pelagic	Possible historical wintering areas in Oregon
Orca (Killer Whale)	<i>Orcinus orca</i>	Transient	Pelagic	
Harbor Porpoise	<i>Phocoena phocoena</i>	Transient	Pelagic	
Dall's Porpoise	<i>Phocoenoides dalli</i>	Transient	Pelagic	
Minke Whale	<i>Balaenoptera acutorostrata</i>	Resident	Pelagic	Common offshore; less conspicuous than Gray Whales, hence probably under-reported
<b>Seals, Sea Lions: Order Carnivora</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>Status</b>	<b>Location(s)</b>	<b>Notes</b>
Steller Sea Lion	<i>Eumetopias jubatus</i>	Transient	Pelagic, Seal Island	Historical haul out
California Sea Lion	<i>Zalophus californianus</i>	Transient	Pelagic, Seal Island	
Northern Fur Seal	<i>Callorhinus ursinus</i>	Historical	Pelagic	Archaeological
Northern Elephant Seal	<i>Mirounga angustirostris</i>	Transient	Pelagic, injured pup on beach June 1998	

<b>Common Name</b>	<b>Scientific Name</b>	<b>Status</b>	<b>Location(s)</b>	<b>Notes</b>
Harbor Seal	<i>Phoca vitulina</i>	Resident	Seal Island, MG, QC	
<b>Other Marine Mammals</b>				
<b>Common Name</b>	<b>Scientific Name</b>	<b>Status</b>	<b>Location(s)</b>	<b>Notes</b>
Sea Otter	<i>Enhydra lutris</i>	Historical	Pelagic	Locally extinct since 1906
Steller's Sea Cow	<i>Hydrodamalis gigas</i>	Possible historical		Extinct

# Fish

Common Name	Scientific Name	Area(s) Found	Notes
<b>Sharks, Skates</b>	<b>Class Chondrichthyes</b>		
Big Skate	<i>Raja binoculata</i>	Deep waters	Egg cases wash up on beach
Long-nosed Skate	<i>Raja rhina</i>		Washed up
Spotted Ratfish	<i>Hydrolagus collieli</i>	Deep waters	Caught at QC 1997
<b>Ray-finned Fish</b>	<b>Superclass Osteichthyes: Class Actinopterygii</b>		
<b>Herrings, Sardines, Anchovies</b>	<b>Order Clupeiformes</b>		
<b>Herring, Smelt</b>	<b>Family Clupeidae</b>		
Pacific Herring	<i>Clupea harengus</i>	Seasonal shallow water	Archaeological
<b>Smoothheads, Smelts</b>	<b>Order Osmeriformes</b>		
<b>Smelts</b>	<b>Family Osmeridae</b>		
Surf Smelt	<i>Hypomesus pretiosus</i>	Shallow water, tidepools	QC
<b>Pikes, Salmon, Trout</b>	<b>Order Salmoniformes</b>		
<b>Salmon, Trout</b>	<b>Family Salmonidae</b>		
Steelhead	<i>Oncorhynchus gairdneri</i>	Accidental tidepool	QC
Coho salmon	<i>Oncorhynchus kisutch</i>	Accidental tidepool	QC
<b>Cods, Rattails, Eelpouts</b>	<b>Order Gadiformes</b>		
<b>Codfishes</b>	<b>Family Gadidae</b>		
Hake	<i>Merluccius productus</i>	Deep water	Archaeological, nocturnal
Pacific Tomcod	<i>Microgadus proximus</i>	QC	Archaeological, nocturnal

Common Name	Scientific Name	Area(s) Found	Notes
<b>Sticklebacks, Seahorses</b>	<b>Order Gasterosteiformes</b>		
<b>Sticklebacks</b>	<b>Family Gasterosteidae</b>		
Threespine Stickleback	<i>Gasterosteus aculeatus</i>	Tidepools	QC
<b>Scorpionfishes, Rockfishes</b>	<b>Order Scorpaeniformes</b>		
<b>Rockfish</b>	<b>Family Scorpaenidae</b>		
Copper Rockfish	<i>Sebastes caurinus</i>	Shallow water, deep water	
Black Rockfish	<i>Sebastes melanops</i>	Shallow water, deep water	
<b>Greenlings</b>	<b>Family Hexagrammidae</b>		
Lingcod	<i>Ophiodon elongatus</i>	Shallow water, deep water	
Kelp Greenling	<i>Hexagrammos decagrammus</i>	Shallow water	MG
Rock Greenling	<i>Hexagrammos lagocephalus</i>	Shallow water	QC
Whitespotted Greenling	<i>Hexagrammos stelleri</i>	Shallow water	
<b>Sculpins</b>	<b>Family Cottidae</b>		
Buffalo Sculpin	<i>Enophrys bison</i>	Shallow water	Archaeological
Brown Irish Lord	<i>Hemilepidotus spinosus</i>	Shallow water	
Red Irish Lord	<i>Hemilepidotus hemilepidotus</i>	Shallow water	FP
Cabezon	<i>Scorpaenichthys marmoratus</i>	Shallow water	QC, MG
Staghorn Sculpin	<i>Leptocottus armatus</i>	Tidepools	QC
Tidepool Sculpin	<i>Oligocottus maculosus</i>	Tidepools	QC, MG
Rosylip Sculpin	<i>Ascelichthys rhodorus</i>	Tidepools	QC, MG
Fluffy Sculpin	<i>Oligocottus snyderi</i>	Tidepools	QC, MG
<b>Snailfish</b>	<b>Family Cyclopteridae</b>		
Tidepool Snailfish	<i>Liparis florae</i>	Shallow water	QC, MG

Common Name	Scientific Name	Area(s) Found	Notes
<b>Perch-like Fishes</b>	<b>Order Perciformes</b>		
<b>Sandlances</b>	<b>Family Ammodytidae</b>		
Sandlance	<i>Ammodytes hexapterus</i>	Shallow water, tidepools	
<b>Surfperch</b>	<b>Family Embiotocidae</b>		
Redtail Surfperch	<i>Aphisticus rhodoterus</i>	Shallow water	
Striped Surfperch	<i>Embiotoca lateralis</i>	Shallow water	
<b>Pricklebacks</b>	<b>Family Stichaeidae</b>		
High Cockscomb	<i>Anoplarchus purpurescens</i>	Tidepools, under rocks	QC, MG
Snake Prickleback	<i>Lumpenus sagitta</i>	Tidepools, under rocks	MG
Rock Prickleback	<i>Xiphister mucosus</i>	Tidepools, under rocks	QC
<b>Gunnels</b>	<b>Family Pholidae</b>		
Penpoint Gunnel	<i>Apodichthys flavidus</i>	Tidepools, under rocks	QC, MG
<b>Clingfish</b>	<b>Family Gobiesocidae</b>		
Northern Clingfish	<i>Gobiesox maeandricus</i>	Tidepools, under rocks	QC, MG
<b>Flatfishes</b>	<b>Order Pleuronectiformes</b>		
<b>Left-eyed, Right-eyed Flounders</b>	<b>Families Bothidae, Pleuronectidae</b>		
Speckled Sanddab	<i>Citharichthys stigmaeus</i>	Shallow water	QC
Pacific Halibut	<i>Hippoglossus stenolepis</i>	Deep water	
Sand Sole	<i>Psettichthys melanostictus</i>	Shallow water	QC
Starry Flounder	<i>Platichthys stellatus</i>	Shallow water	
English Sole	<i>Parophrys vetulus</i>	Shallow water	QC
Butter Sole	<i>Isopsetta isolepis</i>	Shallow water	

<b>Common Name</b>	<b>Scientific Name</b>	<b>Area(s) Found</b>	<b>Notes</b>
C-O Sole	<i>Pleuronichthys coenosus</i>	Shallow water	QC
<b>Sunfishes, Pufferfishes</b>	<b>Order Tetraodontiformes</b>		
<b>Ocean Sunfishes</b>	<b>Family Molidae</b>		
Ocean Sunfish	<i>Mola mola</i>	Pelagic	Seasonal visitor

# Marine Plant List for Yaquina Head

(See Footnote)

Kingdom Plantae: Subkingdom Chromista			
Nonvascular Plants			
Common Name	Scientific Name	Habitat	Notes
<b>Diatoms</b>	<b>Division Bacillariophyta</b>		
Colonial diatoms	<i>Fragilia</i> sp.	Everywhere	First to settle in Quarry Cove
Subkingdom Algae			
Algae			
Common Name	Scientific Name	Habitat	Notes
<b>Green Algae</b>	<b>Class Chlorophyceae</b>		
Sea Hair Enteromorpha	<i>Enteromorpha intestinalis</i>	Everywhere	
Enteromorpha	<i>Enteromorpha linza</i>	Quarry Cove	
Sea Lettuce	<i>Ulva fenestrata</i>	Everywhere	
Green Sea Moss	<i>Cladophora</i> sp.	High, mid zone	
Sea Rope	<i>Acrosiphonia mertensi</i>	Low tide zone	
Dead Man's Finger	<i>Codium fragile</i>	Low tide zone	
Black Sponge	<i>Codium setchellii</i>	Caves, shade	
Green Epiphyte	?	On surfgrass	
<b>Brown Algae</b>	<b>Class Phaeophyceae</b>		
Tar Spot	<i>Ralfsia pacifica</i>	High, mid tide zones	
Whip Tube	<i>Scytosiphon lomentaria</i>	Low tide zone	
Whip tube	<i>Scytosiphon dotyi</i>	High tide zone	
Fir Needle	<i>Analipus japonicus</i>	High, mid tide zone	
Sargassum	<i>Sargassum muticum</i>	Quarry Cove	
Little Rockweed	<i>Pelvetiopsis limitata</i>	High tide zone	
Rockweed	<i>Fucus gardneri</i>	High tide zone	

Common Name	Scientific Name	Habitat	Notes
Sea Brain	<i>Leathesia difformis</i>	Mid tide zone	
Wide Desmarentia	<i>Desmerestia ligulata</i>	Mid, low tide zone	
Petalonia	<i>Petalonia fascia</i>	Low zone	
Sea Palm	<i>Postelsia palmaeformis</i>	High wave exposure	
Sea Cabbage	<i>Hedophyllum sessile</i>	Low zone	
Pom-pon	<i>Pterygophora californica</i>	Low zone	
Seersucker	<i>Costaria costata</i>	Low	
Wing Kelp	<i>Alaria marginata</i>	Low	
Feather Boa Kelp	<i>Egregia menziesii</i>	Low	
Split Kelp	<i>Laminaria setchellii</i>	Low	
Sugar Kelp	<i>Laminaria saccharina</i>	Low	
Small Leaf Kelp	<i>Laminaria sinclairii</i>	Low	
Perennial Kelp	<i>Macrocystis</i> sp.		Washed up on beach often
Bull Kelp	<i>Nereocystis luetkeanus</i>	Offshore	
<b>Red Algae</b>			
	<b>Class Rhodophyceae</b>		
Polysiphona	<i>Polysiphonia</i> sp.	Low zone	
Callithamnion	<i>Callithamnion</i> sp.	Low zone	
Microcladia	<i>Microcladia borealis</i>	Low zone	
Odonthalia	<i>Odonthalia floccosa</i>	Low zone	
Sea Sack	<i>Halosaccion glandiforme</i>	Mid, low zone	
Plocamium	<i>Plocamium cartilagineum</i>	Low zone	
Dulse	<i>Palmaria palmata mollis</i>	Low zone	
Black Pine	<i>Rhodemela larix</i>	Low zone	
Nail Brush	<i>Endocladia muricata</i>	Mid zone	
Sea Tongue	<i>Mastocarpus papillatus</i>	Mid, high zones	Has "sea tar" phase
Turkish Towel	<i>Gigartina exasperata</i>	Mid, low zone	
Iodine Kelp	<i>Prionitis lanceolata</i>	Mid zone	
Mermaid's Cup	<i>Consantineia simplex</i>	Low zone	
Fall/Winter Nori	<i>Porphyra</i> sp.	High zone	

Common Name	Scientific Name	Habitat	Notes
Spring/Summer Nori	<i>Porphyra</i> sp.	High zone	
Epiphytic Nori	<i>Porphyra</i> sp.	On surfgrass	
Iridescent Seaweed	<i>Iridaea splendens</i>	Low zone	
Iridescent Seaweed	<i>Iridaea cornucopiae</i>	High zone	
Woody Kelp	<i>Gymnogongrus</i> sp.	Low zone, with sand.	
Coralline Algae	<i>Lithothamnium</i> sp.	Mid, low zone	
Branched Coralline Algae	<i>Corallina</i> sp.	Mid, low zone	
Bead Coral	<i>Calliarthron</i> sp.	Mid, low zone	
<b>Subkingdom Tracheobionta</b>			
<b>Vascular Plants</b>			
Common Name	Scientific Name	Habitat	Notes
<b>Sea Grasses</b>	<b>Family Zosteraceae</b>		True vascular plants (i.e., not algae), but not true grasses
Eelgrass	<i>Zostera marina</i>	Sand bottoms	
Surfgrass	<i>Phyllospadix scouleri</i>	Low zone, on rocks	
Surfgrass	<i>Phyllospadix torreyi</i>	Surge channels	
<p>* The higher level taxonomy of the plant kingdom is not well-resolved (<a href="http://www.factmonster.com/ce6/sci/A0860417.html">http://www.factmonster.com/ce6/sci/A0860417.html</a>). Names for the subkingdoms vary, and there is doubtless disagreement as to the number and arrangement of subkingdoms. Subkingdom designations are included to indicate the broad, general relationships of the lower groupings. – TM</p>			
<p><b>This is only a partial list of marine plants at Yaquina Head. Many more species were seen but not identified due to lack of time. There are over 400 species of algae on the Oregon Coast.</b></p>			

# Invertebrate List for Yaquina Head

Phylum Porifera Sponges					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Spongin Sponges</b>	<b>Class Demospongiae</b>				
Purple, Pink Sponge	<i>Haliclona permollis</i>	Shade, caves	All, QC	Low, Mid	
Yellow Boring Sponge	<i>Cliona celata</i>	Shade, caves	All	Low	
Crumb of Bread Sponge	<i>Halichondria panicea</i>	Shade, caves	All	Low	
Red Sponge	<i>Ophlitaspongia pennata</i>	Shade, caves	All	Low	
Tan Sponge	<i>Geodia mesotriaena</i>			Low	Washed up
<b>Calcareous Sponges</b>	<b>Class Pharetronida</b>				
Vase Sponge	<i>Leucilla nuttingi</i>	Shade, caves	All	Subtidal	
Phylum Cnidaria Cnidarians					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Hydroids</b>	<b>Class Hydrozoa</b>				
Ostrich Plume	<i>Aglaophenia</i> sp.	Caves	FP	Low	
Sertularia	<i>Sertularia</i> sp.	Caves	FP	Low	Washed up

Common Name	Scientific Name	Environment	Locations	Zone	Notes
By-The-Wind Sailor	<i>Veleva veleva</i>	Pelagic	MG, QC	Open ocean	
<b>Jellyfish</b>	<b>Class Scyphozoa</b>				
Moon Jellyfish	<i>Aurelia aurita</i>	Pelagic	All	Open ocean	
Lion's Mane Jelly	<i>Cyanea capillata</i>	Pelagic	All	Open ocean	
Unid. Scyphozoan	?	Algae	QC	Low	
Bell Jelly	?	Pelagic	QC	Low	
<b>Anemones</b>	<b>Class Anthozoa</b>				
Proliferating Anemone	<i>Epiactis prolifera</i>	Surfgrass, rocks	MG, QC	Low, mid	
Aggregating Anemone	<i>Anthopleura elegantissima</i>	Rocks	All	Mid	
Giant Green Anemone	<i>Anthopleura xanthogrammica</i>	Rocks, crevices	All, QC	Mid, low	
Red and Green Anemone	<i>Urticina felina</i>	Under rocks, caves	QC, FP	Low	
Sea Raspberry	<i>Alcyonium sp.</i>	Caves	FP	Low	
Scarlet Anemone	<i>Tealia coriacea</i>	Under rocks, caves	QC, FP	Low	
Burrowing Anemone	<i>Anthopleura artemisia</i>	In deep pools	MG	Low	

<p align="center"><b>Phylum Gnathostomulida</b> <b>Jaw Worms</b></p>					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
Gnathostomula	<i>Gnathostomula karlingi</i>	Surfgrass rhizoids	MG	Low	Species first described at Yaquina Head 1971 (Riedl, 1971)
<p align="center"><b>Phylum Platyhelminthes</b> <b>Flatworms</b></p>					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
Brown Flatworm	<i>Notoplana</i> sp.	Under rocks	MG, QC, FP	Low	
<p align="center"><b>Phylum Nemertea</b> <b>Nemerteans</b></p>					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Ribbon Worms</b>					
Orange Ribbon Worm	<i>Tubulanus polymorphus</i>	Mussel beds	MG, FP	Low	
Grey Ribbon Worm	<i>Amphiporus formidabilis</i>	Mussel beds	All	Mid	
Brown Ribbon Worm	<i>Paranemertes peregrina</i>	Mussel beds	All	Mid	
Two-spotted Ribbon Worm	<i>Amphiporus bimaculatus</i>		MG	Low	Photographed 29 March 2003

## Phylum Annelida Segmented Worms

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Polychaete Worms</b>	<b>Class Polychaeta</b>				
Calcareous Tube Worm	<i>Serpula vermicularis</i>	On rocks	All	Mid	
Small Tube Worms	<i>Spirorbis</i> sp.	On rocks, shells	?	Low	
Feather Duster Worm	<i>Schizobronchia insignis</i>	Caves	FP	Low	
Parchment tubes	<i>Eudistylia</i> sp.	Rocks	QC	Low	
Hairy Gilled Worm	<i>Thelepus crispus</i>	Rocks, sand, gravel	QC	Mid, low	
Basket-top Tube Worm	<i>Pista elongata</i>	Rocks	MG	Mid to Subtidal	
Scaleworm	<i>Harmothoe imbricata</i>	Mussel beds	MG	Mid, low	
Commensal Scaleworm	<i>Arctonoe vittata</i>	Limpets, Chitons	All	Low	
Mussel Worm	<i>Nereis vexillosa</i>	Mussel beds, rocks	All	Mid	
Sand Worm	<i>Neanthes brandti</i>	Sand, under rocks	QC	Mid, low	
Lugworm	<i>Abarenicola</i> sp.	In sand	QC, MG	Low	

## Phylum Sipuncula Peanut Worms

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Peanut Worm	<i>Golfingia procera</i>	Crevices	QC, MG, FP	Low	
Sea Pear	<i>Themiste pyroides</i>	Crevices, holes	MG, FP	Low	

<b>Phylum Ectoprocta</b>					
<b>Bryozoans</b>					

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Hairy bryozoan	<i>Flustrellidra corniculata</i>	Eelgrass, algae	MG	Subtidal	
Coral bryozoan	<i>Heteropora magna?</i>	Rock	FP	Low	
Leafy bryozoan	<i>Dendrobeatia lichenoides?</i>	Rock	FP	Low	
White Encrusting Bryozoan	<i>Membranipora membranacea</i>	Algae, eelgrass, surfgrass	All	Low	
Brown Encrusting Bryozoan	?	Rock	All	Low	

<b>Phylum Mollusca</b>					
<b>Molluscs</b>					

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Bivalves</b>	<b>Class Bivalvia</b>				
California Mussel	<i>Mytilus californianus</i>	Rock	All	Mid	
Bay Mussel	<i>Mytilus trossulus</i>	Rock	QC	Mid	
Rock Scallop	<i>Hinnites giganteus</i>	Rock	MG	Subtidal	
Cockle	<i>Clinocardium nuttali</i>	Sand	MG, QC	Low	
Sea Bottle Clam	<i>Mytilimeria nuttali</i>		MG	Subtidal	Washed up
Northwest Ugly Clam	<i>Entodesma saxicola</i>	Rocks	MG	Low	
Piddock	<i>Penitella penita</i>	Rocks	All	Mid, low	
Razor Clam	<i>Siliqua patula</i>	Sand	QC, beaches	Low	
Butter Clam	<i>Saxidomus giganteus</i>	Sand, rocks	MG	Low	
Littleneck Clam	<i>Protothaca staminea</i>	Rocks	MG, QC	Low	
Japanese Littleneck Clam	<i>Tapes philippinarum</i>	Rocks	MG	Low	
Sand Clam	<i>Macoma</i> sp.	Sand	QC	Low	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Chitons</b>	<b>Class Polyplacophora</b>				
Mossy Chiton	<i>Mopalia muscosa</i>	Rocks	All but QC	Mid	
Hairy Chiton	<i>Mopalia lignosa</i>	Rocks	All but QC	Mid	
Lined Chiton	<i>Tonicella lineata</i>	Rocks	All but QC	Low	
Gumboot Chiton	<i>Cryptochiton stelleri</i>	Rocks	MG	Low	
Black Leather Chiton	<i>Katharina tunicata</i>	Rocks	All but QC	Mid	
"Tall" Chiton	<i>Ischnochiton</i> sp. ?	Rocks	FP	Low	
<b>Octopus, Squid</b>	<b>Class Cephalopoda</b>				
Giant Pacific Octopus	<i>Enteroctopus dofleini</i>	Deep water, tidepools, subtidal			Uncom- mon in tidepools
<b>Snails, Slugs</b>	<b>Class Gastropoda</b>				
	<b>Subclass Prosobranchia</b>				
<b>Abalones, Keyhole Limpets</b>	<b>Order Archaeogastropoda</b>				
Keyhole Limpet	<i>Diodora aspera</i>	Crevices, caves	All	Low	
<b>Limpets</b>	<b>Order Patellogastropoda</b>				
White Cap Limpet	<i>Acmaea mitra</i>	Rocks	MG	Low	
Shield Limpet	<i>Lottia pelta</i>	Rocks	All	Mid	
Plate Limpet	<i>Tectura scutum</i>	Rocks	All	Mid	
Finger Limpet	<i>Lottia digitalis</i>	Rocks	All	High	
Masked Limpet	<i>Notoacmaea persona</i>	Rocks	All	Mid	
"Small finger-limpet like"	<i>Lottia strigatella</i>	Rocks	All	Mid, high	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Snails</b>	<b>Order Neogastropoda</b>				
Leafy Hornmouth	<i>Ceratostoma foliatum</i>	Rocks	All	Low	
Purple Whelk	<i>Nucella lamellosa</i>	Rocks	All	Mid, low	
Ribbed Whelk	<i>Nucella emarginata</i>	Rocks	All	Mid	
Channeled Whelk	<i>Nucella canaliculata</i>	Mussel beds, rocks	All	Mid	
Dire Whelk	<i>Searlesia dira</i>	Rocks	MG	Mid, low	
Wrinkled Dove Snail	<i>Amphissa columbiana</i>	Mussel beds, rocks	All	Low	
Purple Olive Snail	<i>Olivella biplicata</i>	Sand	Beaches	Low	
Wentletrap	<i>Opalia chacei</i>	Bases of anemones	MG	Mid	
Slipper Shell	<i>Crepidula</i> sp.	On snails, limpets	MG	Low	
Black Turban Snail	<i>Tegula funebris</i>	Rocks	All	Mid	
Blue Top Snail	<i>Calliostoma ligatum</i>	Rocks	All	Low	
Checkered Periwinkle	<i>Littorina scutulata</i>	Rocks	All	High	
Chink Snail	<i>Lacuna marmorata</i>	Algae	All	Low	
	<b>Subclass Opisthobranchia</b>				
<b>Nudibranchs</b>	<b>Order Nudibranchia</b>				
Monterey Sea Lemon	<i>Archidoris montereyensis</i>	Rocks	All	Low	
Sea Lemon	<i>Anisodoris nobllis</i>	Rocks	All	Low	
Sea Clown	<i>Triopha catalinae</i>	Rocks	All	Low	
Frosted Nudibranch	<i>Dirona albolineata</i>	Sand	QC, MG	Low	
Opalescent Nudibranch	<i>Hermisenda crassicornis</i>	Sand, rocks, algae	All	Low	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Sea Mouse	<i>Aeolidea papillosa</i>	Rocks	MG	Low	
Ringed Doris	<i>Diaulula sandiegensis</i>	Rocks	All	Low	
Red Sponge Nudibranch	<i>Rostanga pulchra</i>	Red sponge	MG	Low	
Yellow Edged Cadlina	<i>Cadlina luteomarginata</i>	Rocks	QC, MG	Low	
Barnacle-eating Nudibranch	<i>Onchidoris bilamellata</i>	Rocks	QC	Low	

## Phylum Arthropoda Joint-footed Animals

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Crustaceans</b>	<b>Subphylum Crustacea</b>				
<b>Barnacles</b>	<b>Subclass Cirripedia</b>				
Gray Barnacle	<i>Chthamalus dalli</i>	Rocks	All	Spray	
Acorn Barnacle	<i>Balanus glandula</i>	Rocks	All	High	
Thatched Barnacle	<i>Semibalanus cariosus</i>	Rocks	All	Mid, low	
Giant Barnacle	<i>Balanus nubilus</i>	Rocks	FP	Subtidal	
Gooseneck Barnacle	<i>Pollicipes polymerus</i>	Rocks	All	Mid	
"Subtidal" Barnacle	<i>Balanus crenatus</i>	Rocks	All	Subtidal	
<b>Amphipods, Isopods</b>	<b>Class Malacostraca: Orders Amphipoda, Isopoda</b>				
Copepod	?	Small pools	All	Spray	
Kelp Flea	?	Beach	All	Spray	
Green amphipod	?	Algae	All	Mid	
Black amphipod	?	Algae	All	Mid	
Rockweed Isopod	<i>Idotea wosnesenskii</i>	Algae, rocks	All	High, mid	
Green Isopod	<i>Idotea montereyensis</i>	Eelgrass, algae	All	Low	
Isopod	<i>Idotea urotoma</i>	Eelgrass, algae	All	Low	
Rocks Louse	<i>Ligia pallasii</i>	Rocks	All	Spray	
Gribble	<i>Limnoria</i> sp.	Wood	MG	Low	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Multicolored Pill Bug	<i>Exosphaeroma amplicauda</i>	Mussel beds	MG	Mid	
Pill Bug	<i>Gnorimosphaeroma oregonense</i>	In crevices	QC	Mid	
Parasitic Isopod	?	Flatfish	QC	Subtidal	
<b>Mysids</b>					
<b>Order Mysida</b>					
Unid. Mysid	?	All pools	QC	Low	
<b>Shrimp, Crabs</b>					
<b>Order Decapoda</b>					
<b>Shrimp</b>	<b>Infraorder Caridea</b>				
Broken Back Shrimp	<i>Heptacarpus pugettensis</i>	All pools, algae	All	Low	
Opossum Shrimp	<i>Lissocrangon stylirostris</i>	Sand	QC	Low	
<b>Hermit Crabs, King Crabs</b>					
<b>Infraorder Anomura</b>					
Ghost Shrimp	<i>Neotrypaea californiensis</i>	Sand, mud	QC	Low	
Mole Crab	<i>Emerita analoga</i>	Sand	QC	Low	
Hairy Hermit Crab	<i>Pagurus hirsutiusculus</i>	Rocks, algae	All	Mid	
Grainyhand Hermit Crab	<i>Pagurus granosimanus</i>	Rocks, algae	All	Mid	
Blue-Clawed Hermit Crab	<i>Pagurus samuelis</i>	Rocks, algae	MG	Low	
Flat Porcelain Crab	<i>Petrolisthes cinctipes</i>	Mussel beds	All	Mid	
Flattop Porcelain Crab	<i>Petrolisthes eriomerus</i>	Mussel beds	All	Mid	
Thick Clawed Porcelain Crab	<i>Pachycheles rudis</i>	Mussel beds	FP	Mid	
Yellow-Bellied Crab	<i>Oedignathus intermis</i>	Crevices	FP	Low	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>“True” Crabs</b>	<b>Infraorder Brachyura</b>				
Blue Clawed Crab	<i>Lophopanopeus bellus</i>	Crevice	MG	Low	
Sharp Nosed Crab	<i>Scyra acutifrons</i>	Algae	QC	Low	
Graceful Kelp Crab	<i>Pugettia gracilis</i>	Algae	All	Low	
Northern Kelp Crab	<i>Pugettia producta</i>	Algae	All	Low	
Purple Shore Crab	<i>Hemigrapsus nudus</i>	Under rocks	All	Mid, high	
Yellow Shore Crab	<i>Hemigrapsus oregonensis</i>	Under rocks	QC	Mid, high	
Lined Shore Crab	<i>Pachygrapsus crassipes</i>	Under rocks	All	High	
Dungeness Crab	<i>Cancer magister</i>	Sand	All	Mid. Low	
Subtidal Rock Crab	<i>Cancer branneri</i>	Kelp	QC	Subtidal	
Pacific Rock Crab	<i>Cancer antennarius</i>	Rock	All	Low	
Hairy Rock Crab	<i>Cancer oregonensis</i>	Rock	All	Mid, low	
Red Rock Crab	<i>Cancer productus</i>	Rock	All	Low	
<b>Insects and Their Allies</b>	<b>Subphylum Hexapoda</b>				
<b>Springtails</b>	<b>Order Collembola</b>				
Seashore Springtail	<i>Anurida maritima</i>	Tidepool surface film, under rocks	MG		
<b>Insects</b>	<b>Class Insecta</b>				
<b>Flies</b>	<b>Order Diptera</b>				
Crane Fly	<i>Limonia marmorata</i>	Algae, rocks	All	Spray	
Kelp Fly	<i>Coelopa vanduzeei</i>	Dead algae	All	Spray	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Mites</b>	<b>Class Arachnida: Subclass Acarina</b>				
Red Mite	<i>Neomolgus littoralis</i>	Rocks	All	Spray	
<b>Phylum Echinodermata Spiny-skinned Animals</b>					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Sea Urchins</b>	<b>Class Echinoidea</b>				
Purple Sea Urchin	<i>Strongylocentrotus purpuratus</i>	Rocks	All	Mid, low	
Red Sea Urchin	<i>Strongylocentrotus franciscanus</i>	Rocks	MG	Low, subtidal	
Green Sea Urchin	<i>Strongylocentrotus droebachiensis</i>	Under rocks	FP	Low, subtidal	
<b>Sea Cucumbers</b>	<b>Class Holothuroidea</b>				
White Sea Cucumber	<i>Eupentacta quinquesemita</i>	Mussel beds	All	Low, mid	
Red Sea Cucumber	<i>Cucumaria miniata</i>	Crevices	MG, FP	Low	
California Sea Cucumber	<i>Parastichopus californicus</i>	Pools	MG	Low, subtidal	
<b>Stars</b>	<b>Class Stellerioidea</b>				
<b>Brittle Stars</b>	<b>Subclass Ophiuroidea</b>				
Daisy Brittle Star	<i>Ophiopholus aculata</i>	Sand, kelp	All	Low	
Brittle Star	<i>Amphipholis squamata</i>	Sand, kelp	All	Low	

Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Sea Stars</b>	<b>Subclass Asteroidea</b>				
	<b>Order Forcipulatida</b>				
Six-Armed Star	<i>Leptasterias hexactis</i>	Rock	All	Mid	
Pink Sea Star	<i>Pisaster brevispinus</i>	Sand	QC	Low	
Common Sea Star	<i>Pisaster ochraceus</i>	Rocks	All	Mid	
Sunflower Star	<i>Pycnopodia helianthoides</i>	Sand, rocks	All	Low	
Mottled Sea Star	<i>Evasterias troschelli</i>	Rocks	FP	Mid	
	<b>Order Spinulosida</b>				
Sun Star	<i>Solaster stimpsoni</i>	Sand, rocks	MG	Subtidal	
Blood Star	<i>Henricia</i> sp.	Rocks, sponge	All but QC	Low	
<b>Phylum Chordata</b> <b>Chordates</b> (Humans are chordates)					
Common Name	Scientific Name	Environment	Locations	Zone	Notes
<b>Tunicates</b>	<b>Subphylum Tunicata</b>				
Stalked Sea Squirt	<i>Styela montereyensis</i>	Rocks	All	Low	
Sea Pork	<i>Aplidium</i> sp.	Rocks	All	Low	
"Clam Sea Squirt"	<i>Archidistoma psammion</i>	Sea bottle clam	MG	Subtidal	
"Small red sea squirts"	?	Crevices, caves	FP	Low	