

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

Whales, Porpoises: Order Cetacea

Common Name	Scientific Name	Status	Location(s)	Notes
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

Seals, Sea Lions: Order Carnivora

Common Name	Scientific Name	Status	Location(s)	Notes
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	

Common Name	Scientific Name	Status	Location(s)	Notes
Harbor Seal	<i>Phoca vitulina</i>	Resident	Seal Island, MG, QC	

Other Marine Mammals

Common Name	Scientific Name	Status	Location(s)	Notes
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
Sharks, Skates	Class Chondrichthyes		
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
Ray-finned Fish	Superclass Osteichthyes: Class Actinopterygii		
Herrings, Sardines, Anchovies	Order Clupeiformes		
Herring, Smelt	Family Clupeidae		
Pacific Herring	<i>Clupea harengus</i>	Seasonal shallow water	Archaeological
Smoothheads, Smelts	Order Osmeriformes		
Smelts	Family Osmeridae		
Surf Smelt	<i>Hypomesus pretiosus</i>	Shallow water, tidepools	QC
Pikes, Salmon, Trout	Order Salmoniformes		
Salmon, Trout	Family Salmonidae		
Steelhead	<i>Oncorhynchus gairdneri</i>	Accidental tidepool	QC
Coho salmon	<i>Oncorhynchus kisutch</i>	Accidental tidepool	QC
Cods, Rattails, Eelpouts	Order Gadiformes		
Codfishes	Family Gadidae		
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
Sticklebacks, Seahorses	Order Gasterosteiformes		
Sticklebacks	Family Gasterosteidae		
Threespine Stickleback	<i>Gasterosteus aculeatus</i>	Tidepools	QC
Scorpionfishes, Rockfishes	Order Scorpaeniformes		
Rockfish	Family Scorpaenidae		
Copper Rockfish	<i>Sebastes caurinus</i>	Shallow water, deep water	
Black Rockfish	<i>Sebastes melanops</i>	Shallow water, deep water	
Greenlings	Family Hexagrammidae		
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	
Sculpins	Family Cottidae		
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
Mosshead Sculpin	<i>Clinocottus globiceps</i>	Tidepools	MG
Snailfish	Family Cyclopteridae		
Tidepool Snailfish	<i>Liparis florae</i>	Shallow water	QC, MG

Common Name	Scientific Name	Area(s) Found	Notes
Perch-like Fishes	Order Perciformes		
Sandlances	Family Ammodytidae		
Sandlance	<i>Ammodytes hexapterus</i>	Shallow water, tidepools	
Surfperch	Family Embiotocidae		
Redtail Surfperch	<i>Amphisticus rhodoterus</i>	Shallow water	
Striped Surfperch	<i>Embiotoca lateralis</i>	Shallow water	
Pricklebacks	Family Stichaeidae		
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
Gunnels	Family Pholidae		
Penpoint Gunnel	<i>Apodichthys flavidus</i>	Tidepools, under rocks	QC, MG
Clingfish	Family Gobiesocidae		
Northern Clingfish	<i>Gobiesox maeandricus</i>	Tidepools, under rocks	QC, MG
Flatfishes	Order Pleuronectiformes		
Left-eyed, Right-eyed Flounders	Families Bothidae, Pleuronectidae		
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	

Common Name	Scientific Name	Area(s) Found	Notes
C-O Sole	<i>Pleuronichthys coenosus</i>	Shallow water	QC
Sunfishes, Pufferfishes	Order Tetraodontiformes		
Ocean Sunfishes	Family Molidae		
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
Diatoms	Division Bacillariophyta		
Colonial diatoms	<i>Fragilia</i> sp.	Everywhere	First to settle in Quarry Cove

Subkingdom Algae

Algae

Common Name	Scientific Name	Habitat	Notes
Green Algae	Class Chlorophyceae		
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	
Brown Algae	Class Phaeophyceae		
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	

Red Algae	Class Rhodophyceae		
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>Consantinea 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	
Surfgrass coralline algae	<i>Melobesia mediocris</i>	Low zone	Epiphyte on surfgrass

Subkingdom Tracheobionta Vascular Plants

Common Name	Scientific Name	Habitat	Notes
Sea Grasses	Family Zosteraceae		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	

* The higher level taxonomy of the plant kingdom is not well-resolved (<http://www.factmonster.com/ce6/sci/A0860417.html>). 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

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.

Invertebrate List for Yaquina Head

Phylum Porifera Sponges

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Spongin Sponges	Class Demospongiae				
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
Calcareous Sponges	Class Pharetronida				
Vase Sponge	<i>Leucilla nuttingi</i>	Shade, caves	All	Subtidal	

Phylum Cnidaria Cnidarians

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Hydroids	Class Hydrozoa				
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>Verella verella</i>	Pelagic	MG, QC	Open ocean	
Jellyfish	Class Scyphozoa				
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	
Anemones	Class Anthozoa				
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	

Phylum Gnathostomulida Jaw Worms

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)

Phylum Platyhelminthes Flatworms

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Brown Flatworm	<i>Notoplana</i> sp.	Under rocks	MG, QC, FP	Low	

Phylum Nemertea Nemerteans

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Ribbon Worms					
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
Polychaete Worms	Class Polychaeta				
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	

Phylum Ectoprocta Bryozoans

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	

Phylum Mollusca Molluscs

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Bivalves	Class Bivalvia				
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>Penitiella 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
Chitons	Class Polyplacophora				
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	
Octopus, Squid	Class Cephalopoda				
Giant Pacific Octopus	<i>Enteroctopus dofleini</i>	Deep water, tidepools, subtidal			Uncommon in tidepools
Snails, Slugs	Class Gastropoda				
	Subclass Prosobranchia				
Abalones, Keyhole Limpets	Order Archaeogastropoda				
Keyhole Limpet	<i>Diodora aspera</i>	Crevices, caves	All	Low	
Limpets	Order Patellogastropoda				
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
Snails	Order Neogastropoda				
Leafy Hornmouth	<i>Ceratosstoma 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	
	Subclass Opisthobranchia				
Nudibranchs	Order Nudibranchia				
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
Crustaceans	Subphylum Crustacea				
Barnacles	Subclass Cirripedia				
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	
Amphipods, Isopods	Class Malacostraca: Orders Amphipoda, Isopoda				
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	
Mysids					
Order Mysida					
Unid. Mysid	?	All pools	QC	Low	
Shrimp, Crabs					
Order Decapoda					
Shrimp	Infraorder Caridea				
Broken Back Shrimp	<i>Heptacarpus pugettensis</i>	All pools, algae	All	Low	
Opossum Shrimp	<i>Lissocrangon stylirostris</i>	Sand	QC	Low	
Hermit Crabs, King Crabs					
Infraorder Anomura					
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
“True” Crabs	Infraorder Brachyura				
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	
Insects and Their Allies	Subphylum Hexapoda				
Springtails	Order Collembola				
Seashore Springtail	<i>Anurida maritima</i>	Tidepool surface film, under rocks	MG		
Insects	Class Insecta				
Flies	Order Diptera				
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
Mites	Class Arachnida: Subclass Acarina				
Red Mite	<i>Neomolgus littoralis</i>	Rocks	All	Spray	

Phylum Echinodermata Spiny-skinned Animals

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Sea Urchins	Class Echinoidea				
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	
Sea Cucumbers	Class Holothuroidea				
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	
Stars	Class Stellerioidea				
Brittle Stars	Subclass Ophiuroidea				
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
Sea Stars	Subclass Asteroidea				
	Order Forcipulatida				
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	
	Order Spinulosida				
Sun Star	<i>Solaster stimpsoni</i>	Sand, rocks	MG	Subtidal	
Blood Star	<i>Henricia</i> sp. A	Rocks, sponge	All but QC	Low	
Blood Star	<i>Henricia</i> sp. B	Rocks	MG	Low	Lambert 2000, plate C-25

Phylum Chordata

Chordates

(Humans are chordates)

Common Name	Scientific Name	Environment	Locations	Zone	Notes
Tunicates	Subphylum Tunicata				
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	

References

Kozloff, Eugene. 1996. *Marine Invertebrates of the Pacific Northwest*. Seattle: University of Washington Press.

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