

Appendix 3

Marine Species Lists with Abundance and Habitat Notes for Provincial Helliwell Park

Marine Species at “Wall” at Flora Islet and Reef

Marine Species at Norris Rocks

Marine Species at Toby Islet Reef

Marine Species at Maude Reef, Lambert Channel

Habitats and Notes of Marine Species of Helliwell Provincial Park

Marine Species at wall at Flora Islet and Reef

Common Name	Latin Name	Abundance Notes
Sponges		
Cloud sponge	<i>Aphrocallistes vastus</i>	Abundant, only local site occurrence
Chimney sponge, Boot sponge	<i>Rhabdocalyptus dawsoni</i>	Numerous, only local site where numerous
Chimney sponge, Boot sponge	<i>Staurocalyptus dowlingi</i>	Numerous, only local site where numerous
Scallop sponges	<i>Myxilla, Mycale</i>	
Orange ball sponge	<i>Tethya californiana</i>	Fairly numerous
Aggregated vase sponge	<i>Polymastia pacifica</i>	One sighting
Hydroids		
Sea Fir	<i>Abietinaria sp.</i>	
Corals		
Orange sea pen	<i>Ptilosarcus gurneyi</i>	Numerous
Orange cup coral	<i>Balanophyllia elegans</i>	Abundant
Zoanthids	<i>Epizoanthus scotinus</i>	Numerous
Anemones		
Short plumose anemone	<i>Metridium senile</i>	Fairly numerous
Giant plumose anemone	<i>Metridium gigantium</i>	Fairly numerous
Aggregate green anemone	<i>Anthopleura elegantissima</i>	Abundant
Tube-dwelling anemone	<i>Pachycerianthus fimbriatus</i>	Abundant
Crimson anemone	<i>Cribrinopsis fernaldi</i>	Fairly numerous, only local site other than Toby Islet
Swimming anemone	<i>Stomphia sp.</i>	Fairly numerous
Jellyfish		
Water jellyfish	<i>Aequoria victoria</i>	
Moon jellyfish	<i>Aurelia aurita</i>	
Lion's mane jellyfish	<i>Cyanea capillata</i>	Particuilarly abundant Summer 2000
Ctenophores		
Gooseberry	<i>Pleurobrachia bachei</i>	
Beroe	<i>Beroe sp.</i>	Abundant in spring
Worms		
Calcareous tube worms	<i>Serpula vermicularis</i>	Fairly numerous
Lined ribbon worm	<i>Tubulanus sexlineatus</i>	Scarce, most consistent site seen
Bryozoans		
Staghorn bryozoan	<i>Heteropora magna</i>	
Crabs		
Sharpnose crab	<i>Scura acutifrons</i>	Fairly numerous
Longhorn decorator crab	<i>Chorilia longipes</i>	
Graceful decorator crab	<i>Oregonia gracilis</i>	

Marine Species at wall at Flora Islet and Reef

Common Name	Latin Name	Abundance Notes
Hairy cancer crab, pygmy rock crab	<i>Cancer oregonensis</i>	Fairly numerous, good habitat (small round holes)
Shrimp		
Candy stripe shrimp	<i>Lebbeus grandimanus</i>	Scarce, associated with <i>Cribrinopsis fernaldi</i>
Coonstripe shrimp, dock shrimp	<i>Pandalus danae</i>	Abundant
Spot prawn, spot shrimp	<i>Pandalus platyceros</i>	Nearby in deeper water
Lithodid Crabs		
Spiny lithod crab	<i>Acantholithodes hispidus</i>	Rare
Umbrella crab	<i>Cryptolithodes sp.</i>	Rare
Rhinoceros crab	<i>Rhinolithodes wosnessenskii</i>	Rare
Puget Sound king crab	<i>Lopholithodes mandtii</i>	Fairly numerous
Squat lobster	<i>Munida quadrispina</i>	Abundant
Barnacles		
Giant barnacle	<i>Balanus nubilus</i>	Fairly numerous, only occurrence within park
Bivalves		
Pacific oyster	<i>Crassostrea gigas</i>	Abundant
Jingle oyster	<i>Pododemus machroshisma</i>	
Rock scallop	<i>Crassodomo gigantea</i>	Scarce, but one of better locations for sighting
Pink scallop	<i>Chalmys sp.</i>	
Snails		
Northern abalone	<i>Haliotis kamtschatkana</i>	Rare
Rough keyhole limpet	<i>Diodora aspera</i>	Fairly numerous
Blue topsnail	<i>Calliostoma ligatum</i>	Numerous
Sitka periwinkle	<i>Littorina sitkana</i>	Abundant
Checkered periwinkle	<i>Littorina sculata</i>	Abundant
Mudflat snail	<i>Battilaria zonalis</i>	Abundant
Oregon hairy triton	<i>Fusitriton oregonensis</i>	Fairly numerous, best location for sighting
Leafy hornmouth snail	<i>Ceratostoma foliatum</i>	Fairly numerous
Limpets		
Whitecap limpet	<i>Acmaea mitra</i>	Fairly numerous
Nudibranchs		
Catalina triopha	<i>Triopha catalinae</i>	Scarce, best location for sighting
Monterey dorid	<i>Archidoris montereyensis</i>	Fairly numerous
Sea lemon	<i>Anisodoris nobilis</i>	Fairly numerous
Tochni	<i>Tochuina tetraquetra</i>	
Giant nudibranch, spanish	<i>Dendronotus iris</i>	Fairly numerous

Marine Species at wall at Flora Islet and Reef

Common Name	Latin Name	Abundance Notes
dancer		
White lined dirona	<i>Dirona albolineata</i>	Fairly numerous
Opalescent nudibranch	<i>Herimssenda crassicornis</i>	Abundant at times
Cephalopods		
Giant Pacific octopus	<i>Octopus dofleii</i>	Fairly numerous
Chitons		
Lined chiton	<i>Tonicella lineata</i>	Abundant
Giant Pacific chiton	<i>Cryptochiton stelleri</i>	Scarce, one of best locations for sighting
Sea Stars		
Cookie star	<i>Ceramaster patagonicus</i>	Fairly numerous
Vermilion star	<i>Mediaster aequalis</i>	Fairly numerous
Cushion star, slime star	<i>Pteraster tessellatus</i>	Fairly numerous
Striped sunstar	<i>Solaster stimpsoni</i>	Fairly numerous
Morning sunstar	<i>Solaster dawsoni</i>	Fairly numerous
Rose star	<i>Crossaster papposus</i>	Fairly numerous
Leather star	<i>Dermasterias imbricata</i>	Fairly numerous
Blood star	<i>Henricia leviuscula</i>	Fairly numerous
Sunflower star	<i>Pycnopodia helianthoides</i>	Abundant
Ochre star	<i>Pisaster ochraceus</i>	Abundant
Painted star, rainbow star	<i>Ortheasterias koehleri</i>	Abundant
Long ray star	<i>Stylasterias forreri</i>	Scarce, only local site where encountered
Sea cucumbers		
Orange sea cucumber	<i>Cucumaria miniata</i>	Abundant
White sea cucumber	<i>Cucumaria pallida</i>	Fairly numerous
California sea cucumber	<i>Parashichopus californicus</i>	Abundant
Creeping pedal (armoured) sea cucumber	<i>Psolus chitonoides</i>	Fairly numerous
Sea urchins		
Red sea urchin	<i>Strongylocentrotus franciscanus</i>	Abundant
Crinoids		
Feather star	<i>Florometra serratissima</i>	Fairly numerous, only local site where so
Ascidians		
Hairy sea squirt	<i>Boltenia villosa</i>	Fairly numerous
Glassy sea squirt	<i>Ascidia paratropa</i>	Scarce
Sea peach	<i>Halocynthia aurantium</i>	Scarce
Orange sea squirt	<i>Cnemidocarpa finmarkensis</i>	Fairly numerous
Transparent sea squirt	<i>Corella inflata</i>	Scarce

Marine Species at wall at Flora Islet and Reef

Common Name	Latin Name	Abundance Notes
Orange social ascidian	<i>Metandrocarpa sp.</i>	Numerous
Fishes		
Spiny dogfish	<i>Squalus acanthias</i>	Scarce, better than average chance of sighting
Sixgill shark	<i>Hexanchus griseus</i>	Only local site where encountered reliably.
Big skate	<i>Raja binoculata</i>	Rare, one of best local sites
Ratfish	<i>Hydrolagus colliei</i>	Fairly numerous, one of best local sites
Pacific herring	<i>Clupea harengus pallasii</i>	Abundant at times (summer young of year)
Salmon	<i>Oncorhynchus sp.</i>	
Pacific cod	<i>Gadus macrocephalus</i>	Rare, one sighting only
Red brotula	<i>Brosmophycis marginata</i>	Rare, one sighting only
Bay pipefish	<i>Syngnathus griseolineatus</i>	
Striped seaperch	<i>Ebmiotoca lateralis</i>	
Pile perch	<i>Rhacochilus vacca</i>	
Shiner perch	<i>Cymatogaster aggregata</i>	
Blackeye goby	<i>Coryphopterus nicholsi</i>	Abundant
Northern ronquil	<i>Ronquilus jordani</i>	
Mosshead warbonnet	<i>Chirolophis nugator</i>	Scarce, better than average chance of sighting
Penpoint gunnel	<i>Apodichthys flavidus</i>	
Longfin gunnel	<i>Pholis clemensi</i>	Scarce, better than average chance of sighting
Wolf-eel	<i>Anarrhichthys ocellatus</i>	Fairly numerous
Copper rockfish	<i>Sebastes caurinus</i>	Fairly numerous
Quillback rockfish	<i>Sebastes maliger</i>	Fairly numerous
Black rockfish	<i>Sebastes melanops</i>	Scarce, used to be abundant
Tiger rockfish	<i>Sebastes nigrocinctus</i>	Fairly numerous, one of best local sites
Yelloweye rockfish	<i>Sebastes ruberrimus</i>	Fairly numerous, best site for juveniles
Kelp greenling	<i>Hexagrammos decagrammus</i>	Fairly numerous
Lingcod	<i>Ophiodon elongatus</i>	Fairly numerous, best local site
Painted greenling	<i>Oxylebius pictus</i>	Fairly numerous
Tidepool sculpin	<i>Oligocottus maculosus</i>	Abundant
Scalyhead sculpin	<i>Artedius harringtoni</i>	Abundant
Longfin sculpin	<i>Jordania zonope</i>	Abundant
Cabezon	<i>Scorpaenichthys marmoratus</i>	Fairly numerous
Marine Mammals		
Pacific harbour seal	<i>Phoca vitulina richardsi</i>	Abundant
Stellar sea lion	<i>Eumetopias jubatus</i>	Numerous, spring
California sea lion	<i>Zalopus californianus</i>	Numerous, spring
Orca	<i>Orcinus orca</i>	Rare, best local site near-shore
Pacific white-sided dolphin	<i>Lagenorhynchus obliquidens</i>	Rare, one sighting only
River otter	<i>Lutra canadensis pacifica</i>	Fairly numerous, uses terrestrial habitat of island

Marine Species at wall at Flora Islet and Reef

Common Name	Latin Name	Abundance Notes
Marine plants		
Sea lettuce	<i>Ulva spp.</i>	Abundant in shallows
Pink rock crust	<i>Lithothamnion spp.</i>	Abundant
Coralline alge	<i>Calliathron sp.</i>	Abundant

Marine Species at Norris Rocks

Common Name	Latin Name	Abundance Notes
Sponges		
Orange ball sponge	<i>Tethya californiana</i>	Fairly numerous
Hydroids		
Sea Fir	<i>Abietinaria sp.</i>	
Corals		
Orange sea pen	<i>Ptilosarcus gurneyi</i>	Numerous
Orange cup coral	<i>Balanophyllia elegans</i>	Abundant
Zoanthids	<i>Epizoanthus scotinus</i>	Numerous
Anemones		
Short plumose anemone	<i>Metridium senile</i>	
Giant plumose anemone	<i>Metridium gigantium</i>	
Aggregate green anemone	<i>Anthopleura elegantissima</i>	
Buried green anemone	<i>Anthopleura artemisia</i>	
Tube-dwelling anemone	<i>Pachycerianthus fimbriatus</i>	Numerous
Swimming anemone	<i>Stomphia sp.</i>	
Jellyfish		
Water jellyfish	<i>Aequoria victoria</i>	
Moon jellyfish	<i>Aurelia aurita</i>	
Lion's mane jellyfish	<i>Cyanea capillata</i>	
Ctenophores		
Gooseberry	<i>Pleurobrachia bachei</i>	
Beroe	<i>Beroe sp.</i>	
Worms		
Fringed tube worms	<i>Dodecaceria fewkesi</i>	
Calcareous tube worms	<i>Serpula vermicularis</i>	
Slime tube worms	<i>Myxicolla infundibulum</i>	
Lined ribbon worm	<i>Tubulanus sexlineatus</i>	
Bryozoans		
Staghorn bryozoan	<i>Heteropora magna</i>	
Kelp lace bryozoan	<i>Membranipora membranacea</i>	
Crabs		
Purple shore crab	<i>Hemigrapsus nudus</i>	
Yellow (Hairy) shore crab	<i>Hemigrapsus oregonensis</i>	
Tanner crab, snow crab	<i>Chionocetes bairdi</i>	
Sharpnose crab	<i>Scura acutifrons</i>	
Graceful kelp crab	<i>Pugettia gracilis</i>	
Northern kelp crab	<i>Pugettia producta</i>	
Longhorn decorator crab	<i>Chorilia longipes</i>	
Graceful decorator crab	<i>Oregonia gracilis</i>	

Marine Species at Norris Rocks

Common Name	Latin Name	Abundance Notes
Red rock crab	<i>Cancer productus</i>	
Hairy cancer crab, pygmy rock crab	<i>Cancer oregonensis</i>	
Shrimp		
Stiletto shrimp	<i>Heptacarpus stylus</i>	
Threespine shrimp	<i>Heptacarpus tridens</i>	
Candy stripe shrimp	<i>Lebbeus grandimanus</i>	
Blade shrimp	<i>Spirontocaris sp</i>	
Coonstripe shrimp, dock shrimp	<i>Pandalus danae</i>	
Spot prawn, spot shrimp	<i>Pandalus platyceros</i>	
Hermit crabs		
Bering hermit	<i>Pagurus beringanus</i>	
Lithodid Crabs		
Spiny lithod crab	<i>Acantholithodes hispidus</i>	
Umbrella crab	<i>Cryptolithodes sp.</i>	
Rhinoceros crab	<i>Rhinolithodes wosnessenskii</i>	
Heart crab	<i>Phyllolithodes papillosus</i>	
Box crab	<i>Lopholithodes forminatus</i>	
Puget Sound king crab	<i>Lopholithodes mandtii</i>	
Squat lobster	<i>Munida quadrispina</i>	
Barnacles		
Giant barnacle	<i>Balanus nubilus</i>	
Acorn barnacle	<i>Balanus glandula</i>	
Thatched barnacle	<i>Semibalanus cariosus</i>	
Pelagic goose barnacle	<i>Lepas anatifera</i>	
Bivalves		
Pacific blue mussel	<i>Mytilus edulis</i>	
Pacific oyster	<i>Crassostrea gigas</i>	
Jingle oyster	<i>Pododemus machroshisma</i>	
Rock scallop	<i>Crassodomo gigantea</i>	
Pink scallop	<i>Chalmys sp.</i>	
Nuttall's cockle	<i>Clinocardium nuttallii</i>	
Horse clam, gaper clam	<i>Tresus sp.</i>	
Dark mahogany clam, varnish clam	<i>Nuttallia obscurata</i>	
Pacific littleneck clam	<i>Protothaca staminea</i>	
Manila clam	<i>Venerupis philippinarum</i>	
Butter clam	<i>Saxidomus gigantea</i>	
Pacific geoduck clam	<i>Panopea abrupta</i>	
Snails		

Marine Species at Norris Rocks

Common Name	Latin Name	Abundance Notes
Northern abalone	<i>Haliotis kamtschatkana</i>	
Rough keyhole limpet	<i>Diodora aspera</i>	
Blue topsnail	<i>Calliostoma ligatum</i>	
Sitka periwinkle	<i>Littorina sitkana</i>	
Checkered periwinkle	<i>Littorina sculata</i>	
Mudflat snail	<i>Battilaria zonalis</i>	
Oregon hairy triton	<i>Fusitriton oregonensis</i>	
Lewis's moonshell	<i>Euspira lewisii (Polinices lewisii)</i>	
Leafy hornmouth snail	<i>Ceratostoma foliatum</i>	
Limpets		
Whitecap limpet	<i>Acmaea mitra</i>	
Shield limpet	<i>Lottia pelta</i>	
Plate limpet	<i>Tectura scutum</i>	
Mask limpet	<i>Tectura persona</i>	
Nudibranchs		
Nanaimo dorid	<i>Acanthodoris nanaimoensis</i>	
Catalina triopha	<i>Triopha catalinae</i>	
Monterey dorid	<i>Archidoris montereyensis</i>	
Sea lemon	<i>Anisodoris nobilis</i>	
Leopard dorid	<i>Diaulula sandigensis</i>	
Tochni	<i>Tochuina tetraquetra</i>	
Giant nudibranch, spanish dancer	<i>Dendronotus iris</i>	
Red dendronotid	<i>Dendronotus rufus</i>	
Hooded nudibranch	<i>Melibe leonina</i>	
White lined dirona	<i>Dirona albolineata</i>	
Flabellina nudibranch	<i>Flabellina sp.</i>	
Opalescent nudibranch	<i>Herimssenda crassicornis</i>	
Cephalopods		
Giant Pacific octopus	<i>Octopus dofleini</i>	
Red octopus	<i>Octopus rubescens</i>	
Smooth-skinned octopus	<i>Lyoderma sp. (?)</i>	
Stubby squid	<i>Rossia pacifica</i>	
Chitons		
Lined chiton	<i>Tonicella lineata</i>	
Giant Pacific chiton	<i>Cryptochiton stelleri</i>	
Sea Stars		
Cookie star	<i>Ceramaster patagonicus</i>	
Vermilion star	<i>Mediaster aequalis</i>	
Cushion star, slime star	<i>Pteraster tessellatus</i>	
Striped sunstar	<i>Solaster stimpsoni</i>	
Morning sunstar	<i>Solaster dawsoni</i>	

Marine Species at Norris Rocks

Common Name	Latin Name	Abundance Notes
Northern sunstar	<i>Solaster endeca</i>	
Rose star	<i>Crossaster papposus</i>	
Leather star	<i>Dermasterias imbricata</i>	
Blood star	<i>Henricia leviuscula</i>	
Sunflower star	<i>Pycnopodia helianthoides</i>	
Mottled star	<i>Evasterias troschelii</i>	
Ochre star	<i>Pisaster ochraceus</i>	
Short-spined pisaster	<i>Pisaster brevispinus</i>	
Painted star, rainbow star	<i>Ortheastaster koehleri</i>	
Long ray star	<i>Stylasterias forreri</i>	
Sea cucumbers		
Orange sea cucumber	<i>Cucumaria miniata</i>	
White sea cucumber	<i>Cucumaria pallida</i>	
California sea cucumber	<i>Paraschichopus californicus</i>	
Creeping pedal (armoured) sea cucumber	<i>Psolus chitonoides</i>	
Sea urchins		
Red sea urchin	<i>Strongylocentrotus franciscanus</i>	
Green sea urchin	<i>Strongylocentrotus droebachiensis</i>	
Sand dollar	<i>Dentaster excentricus</i>	
Crinoids		
Feather star	<i>Florometra serratissima</i>	
Ascidians		
Hairy sea squirt	<i>Boltenia villosa</i>	
Glassy sea squirt	<i>Ascidia paratropa</i>	
Sea peach	<i>Halocynthia aurantium</i>	
Orange sea squirt	<i>Cnemidocarpa finmarkensis</i>	
Transparent sea squirt	<i>Corella inflata</i>	
Orange social ascidian	<i>Metandrocarpa sp.</i>	
Lightbulb ascidian	<i>Clavelina huntsmani</i>	
Fishes		
Spiny dogfish	<i>Squalus acanthias</i>	
Sixgill shark	<i>Hexanchus griseus</i>	
Big skate	<i>Raja binoculata</i>	
Ratfish	<i>Hydrolagus colliei</i>	
Pacific herring	<i>Clupea harengus pallasii</i>	
Salmon	<i>Oncorhynchus sp.</i>	
Pacific cod	<i>Gadus macrocephalus</i>	
Red brotula	<i>Brosmophycis marginata</i>	
Tube snout	<i>Aulorhynchus flavidus</i>	
Bay pipefish	<i>Syngnathus griseolineatus</i>	

Marine Species at Norris Rocks

Common Name	Latin Name	Abundance Notes
Striped seaperch	<i>Ebmiotoca lateralis</i>	
Pile perch	<i>Rhacochilus vacca</i>	
Shiner perch	<i>Cymatogaster aggregata</i>	
Blackeye goby	<i>Coryphopterus nicholsi</i>	
Northern ronquil	<i>Ronquilus jordani</i>	
Mosshead warbonnet	<i>Chirolophis nugator</i>	
Penpoint gunnel	<i>Apodichthys flavidus</i>	
Longfin gunnel	<i>Pholis clemensi</i>	
Wolf-eel	<i>Anarrhichthys ocellatus</i>	
Copper rockfish	<i>Sebastes caurinus</i>	
Quillback rockfish	<i>Sebastes maliger</i>	
Black rockfish	<i>Sebastes melanops</i>	
Tiger rockfish	<i>Sebastes nigrocinctus</i>	
Yelloweye rockfish	<i>Sebastes ruberrimus</i>	
Greenstripe rockfish	<i>Sebastes elongatus</i>	
Kelp greenling	<i>Hexagrammos decagrammus</i>	
Lingcod	<i>Ophiodon elongatus</i>	
Painted greenling	<i>Oxylebius pictus</i>	
Tidepool sculpin	<i>Oligocottus maculosus</i>	
Scalyhead sculpin	<i>Artedius harringtoni</i>	
Longfin sculpin	<i>Jordania zonope</i>	
Sailfin sculpin	<i>Nautichthys oculofasciatus</i>	
Grunt sculpin	<i>Rhamphocottus richardsoni</i>	
Cabazon	<i>Scorpaenichthys marmoratus</i>	
Red Irish Lord	<i>Hemilepidotus hemilepidotus</i>	
Plainfin midshipman	<i>Porichthys notatus</i>	
Pacific spiny lumpsucker	<i>Eumicrotremus orbis</i>	
Speckled sanddab	<i>Citharichthys stigmaeus</i>	
Slender sole	<i>Lyopsetta exilis</i>	
C-O Sole	<i>Pleuronichthys coenosus</i>	
Marine Mammals		
Pacific harbour seal	<i>Phoca vitulina richardsi</i>	
Stellar sea lion	<i>Eumetopias jubatus</i>	
California sea lion	<i>Zalopus californianus</i>	
Orca	<i>Orcinus orca</i>	
Pacific white-sided dolphin	<i>Lagenorhynchus obliquidens</i>	
Gray whale	<i>Eschrichtius robustus</i>	
Minke whale	<i>Balaeanoptera acutorostrata</i>	
River otter	<i>Lutra canadensis pacifica</i>	
Marine plants		
Sea hair	<i>Enteromorpha intestinalis</i>	
Sea lettuce	<i>Ulva spp.</i>	
Rockweed	<i>Fucus gardneri</i>	
Wireweed	<i>Sargassum muticum</i>	
Sea cauliflower	<i>Leathesia difformis</i>	

Marine Species at Norris Rocks

Common Name	Latin Name	Abundance Notes
Bull kelp	<i>Nereocystis luetkeana</i>	
Broad leaf kelp	<i>Laminaria sp.</i>	
Purple laver	<i>Porphyra perforata</i>	
Turkish towel	<i>Chondracanthus exasperatus (Gigartina)</i>	
Turkish washcloth	<i>Mastocarpus papillatus</i>	
Black pine	<i>Neorhodomela larix</i>	
Pink rock crust	<i>Lithothamnion spp.</i>	
Coralline alge	<i>Calliathron sp.</i>	
Flowering plants		
Eel grass	<i>Zostera marina</i>	
Sea asparagus	<i>Salicornia virginica</i>	

Marine Species at Toby Islet Reef

Common Name	Latin Name	Abundance Notes
Sponges		
Cloud sponge	<i>Aphrocallistes vastus</i>	
Chimney sponge, Boot sponge	<i>Rhabdocalyptus dawsoni</i>	
Chimney sponge, Boot sponge	<i>Staurocalyptus dowlingi</i>	
Scallop sponges	<i>Myxilla, Mycale</i>	
Velvety' red sponge	<i>Ophlitaspongia pennata</i>	
Orange ball sponge	<i>Tethya californiana</i>	
Aggregated vase sponge	<i>Polymastia pacifica</i>	
Hydroids		
Sea Fir	<i>Abietinaria sp.</i>	
Corals		
Orange sea pen	<i>Ptilosarcus gurneyi</i>	
Sea whip	<i>Balticina septentrionalis</i>	
Orange cup coral	<i>Balanophyllia elegans</i>	
Zoanthids	<i>Epizoanthus scotinus</i>	
Anemones		
Short plumose anemone	<i>Metridium senile</i>	
Giant plumose anemone	<i>Metridium gigantium</i>	
Aggregate green anemone	<i>Anthopleura elegantissima</i>	
Buried green anemone	<i>Anthopleura artemisia</i>	
Painted anemone	<i>Urticina crassicornis</i>	
Tube-dwelling anemone	<i>Pachycerianthus fimbriatus</i>	
Crimson anemone	<i>Cribrinopsis fernaldi</i>	
Swimming anemone	<i>Stomphia sp.</i>	
Jellyfish		
Water jellyfish	<i>Aequoria victoria</i>	
Moon jellyfish	<i>Aurelia aurita</i>	
Lion's mane jellyfish	<i>Cyanea capillata</i>	
Jellyfish	<i>Aegina citrea</i>	
Ctenophores		
Gooseberry	<i>Pleurobrachia bachei</i>	
Beroe	<i>Beroe sp.</i>	
Worms		
Fringed tube worms	<i>Dodecaceria fewkesi</i>	
Calcareous tube worms	<i>Serpula vermicularis</i>	
Slime tube worms	<i>Myxicolla infundibulum</i>	
Lined ribbon worm	<i>Tubulanus sexlineatus</i>	
Bryozoans		

Marine Species at Toby Islet Reef

Common Name	Latin Name	Abundance Notes
Staghorn bryozoan	<i>Heteropora magna</i>	
Kelp lace bryozoan	<i>Membranipora membranacea</i>	
Crabs		
Purple shore crab	<i>Hemigrapsus nudus</i>	
Yellow (Hairy) shore crab	<i>Hemigrapsus oregonensis</i>	
Tanner crab, snow crab	<i>Chionocetes bairdi</i>	
Sharpnose crab	<i>Scura acutifrons</i>	
Graceful kelp crab	<i>Pugettia gracilis</i>	
Northern kelp crab	<i>Pugettia producta</i>	
Longhorn decorator crab	<i>Chorilia longipes</i>	
Graceful decorator crab	<i>Oregonia gracilis</i>	
Red rock crab	<i>Cancer productus</i>	
Hairy cancer crab, pygmy rock crab	<i>Cancer oregonensis</i>	
Shrimp		
Stiletto shrimp	<i>Heptacarpus stylus</i>	
Threespine shrimp	<i>Heptacarpus tridens</i>	
Candy stripe shrimp	<i>Lebbeus grandimanus</i>	
Blade shrimp	<i>Spirontocaris sp</i>	
Coonstripe shrimp, dock shrimp	<i>Pandalus danae</i>	
Spot prawn, spot shrimp	<i>Pandalus platyceros</i>	
Hermit crabs		
Bering hermit	<i>Pagurus beringanus</i>	
Lithodid Crabs		
Spiny lithod crab	<i>Acantholithodes hispidus</i>	
Umbrella crab	<i>Cryptolithodes sp.</i>	
Rhinoceros crab	<i>Rhinolithodes wosnessenskii</i>	
Heart crab	<i>Phyllolithodes papillosus</i>	
Box crab	<i>Lopholithodes forminatus</i>	
Puget Sound king crab	<i>Lopholithodes mandtii</i>	
Squat lobster	<i>Munida quadrispina</i>	
Barnacles		
Giant barnacle	<i>Balanus nubilus</i>	
Acorn barnacle	<i>Balanus glandula</i>	
Thatched barnacle	<i>Semibalanus cariosus</i>	
Pelagic goose barnacle	<i>Lepas anatifera</i>	
Bivalves		
Pacific blue mussel	<i>Mytilus edulis</i>	
Pacific oyster	<i>Crassostrea gigas</i>	
Jingle oyster	<i>Pododemus machroshisma</i>	
Rock scallop	<i>Crassodomo gigantea</i>	

Marine Species at Toby Islet Reef

Common Name	Latin Name	Abundance Notes
Pink scallop	<i>Chalmys sp.</i>	
Nuttall's cockle	<i>Clinocardium nuttallii</i>	
Horse clam, gaper clam	<i>Tresus sp.</i>	
Dark mahogany clam, varnish clam	<i>Nuttallia obscurata</i>	
Pacific littleneck clam	<i>Protothaca staminea</i>	
Manila clam	<i>Venerupis philippinarum</i>	
Butter clam	<i>Saxidomus gigantea</i>	
Pacific geoduck clam	<i>Panopea abrupta</i>	
Snails		
Northern abalone	<i>Haliotis kamtschatkana</i>	
Rough keyhole limpet	<i>Diodora aspera</i>	
Blue topsnail	<i>Calliostoma ligatum</i>	
Sitka periwinkle	<i>Littorina sitkana</i>	
Checkered periwinkle	<i>Littorina sculata</i>	
Mudflat snail	<i>Battilaria zonalis</i>	
Oregon hairy triton	<i>Fusitriton oregonensis</i>	
Lewis's moonsnail	<i>Euspira lewisii (Polinices lewisii)</i>	
Leafy hornmouth snail	<i>Ceratostoma foliatum</i>	
Limpets		
Whitecap limpet	<i>Acmaea mitra</i>	
Shield limpet	<i>Lottia pelta</i>	
Plate limpet	<i>Tectura scutum</i>	
Mask limpet	<i>Tectura persona</i>	
Nudibranchs		
Nanaimo dorid	<i>Acanthodoris nanaimoensis</i>	
Catalina triopha	<i>Triopha catalinae</i>	
Monterey dorid	<i>Archidoris montereyensis</i>	
Sea lemon	<i>Anisodoris nobilis</i>	
Leopard dorid	<i>Diaulula sandigensis</i>	
Tochni	<i>Tochuina tetraquetra</i>	
Giant nudibranch, spanish dancer	<i>Dendronotus iris</i>	
Red dendronotid	<i>Dendronotus rufus</i>	
Hooded nudibranch	<i>Melibe leonina</i>	
White lined dirona	<i>Dirona albolineata</i>	
Flabellina nudibranch	<i>Flabellina sp.</i>	
Opalescent nudibranch	<i>Herimssenda crassicornis</i>	
Cephalopods		
Giant Pacific octopus	<i>Octopus dofleii</i>	
Red octopus	<i>Octopus rubescens</i>	
Smooth-skinned octopus	<i>Lyoderma sp. (?)</i>	
Stubby squid	<i>Rossia pacifica</i>	

Marine Species at Toby Islet Reef

Common Name	Latin Name	Abundance Notes
Chitons		
Lined chiton	<i>Tonicella lineata</i>	
Giant Pacific chiton	<i>Cryptochiton stelleri</i>	
Sea Stars		
Cookie star	<i>Ceramaster patagonicus</i>	
Vermilion star	<i>Mediaster aequalis</i>	
Cushion star, slime star	<i>Pteraster tesselatus</i>	
Striped sunstar	<i>Solaster stimpsoni</i>	
Morning sunstar	<i>Solaster dawsoni</i>	
Northern sunstar	<i>Solaster endeca</i>	
Rose star	<i>Crossaster papposus</i>	
Leather star	<i>Dermasterias imbricata</i>	
Blood star	<i>Henricia leviuscula</i>	
Sunflower star	<i>Pycnopodia helianthoides</i>	
Mottled star	<i>Evasterias troschelii</i>	
Ochre star	<i>Pisaster ochraceus</i>	
Short-spined pisaster	<i>Pisaster brevispinus</i>	
Painted star, rainbow star	<i>Orthesterias koehleri</i>	
Long ray star	<i>Stylasterias forreri</i>	
Sea cucumbers		
Orange sea cucumber	<i>Cucumaria miniata</i>	
White sea cucumber	<i>Cucumaria pallida</i>	
California sea cucumber	<i>Parashichopus californicus</i>	
Creeping pedal (armoured) sea cucumber	<i>Psolus chitonoides</i>	
Sea urchins		
Red sea urchin	<i>Strongylocentrotus franciscanus</i>	
Green sea urchin	<i>Strongylocentrotus droebachiensis</i>	
Sand dollar	<i>Dentraster excentricus</i>	
Crinoids		
Feather star	<i>Florometra serratissima</i>	
Ascidians		
Hairy sea squirt	<i>Boltenia villosa</i>	
Glassy sea squirt	<i>Ascidia paratropa</i>	
Sea peach	<i>Halocynthia aurantium</i>	
Orange sea squirt	<i>Cnemidocarpa finmarkensis</i>	
Transparent sea squirt	<i>Corella inflata</i>	
Orange social ascidian	<i>Metandrocarpa sp.</i>	
Lightbulb ascidian	<i>Clavelina huntsmani</i>	
Fishes		
Spiny dogfish	<i>Squalus acanthias</i>	

Marine Species at Toby Islet Reef

Common Name	Latin Name	Abundance Notes
Sixgill shark	<i>Hexanchus griseus</i>	
Big skate	<i>Raja binoculata</i>	
Ratfish	<i>Hydrolagus colliei</i>	
Pacific herring	<i>Clupea harengus pallasii</i>	
Salmon	<i>Oncorhynchus sp.</i>	
Pacific cod	<i>Gadus macrocephalus</i>	
Red brotula	<i>Brosmophycis marginata</i>	
Tube snout	<i>Aulorhynchus flavidus</i>	
Bay pipefish	<i>Syngnathus griseolineatus</i>	
Striped seaperch	<i>Ebmiotoca lateralis</i>	
Pile perch	<i>Rhacochilus vacca</i>	
Shiner perch	<i>Cymatogaster aggregata</i>	
Blackeye goby	<i>Coryphopterus nicholsi</i>	
Northern ronquil	<i>Ronquilus jordani</i>	
Mosshead warbonnet	<i>Chirolophus nugator</i>	
Penpoint gunnel	<i>Apodichthys flavidus</i>	
Longfin gunnel	<i>Pholis clemensi</i>	
Wolf-eel	<i>Anarrhichthys ocellatus</i>	
Copper rockfish	<i>Sebastes caurinus</i>	
Quillback rockfish	<i>Sebastes maliger</i>	
Black rockfish	<i>Sebastes melanops</i>	
Tiger rockfish	<i>Sebastes nigrocinctus</i>	
Yelloweye rockfish	<i>Sebastes ruberrimus</i>	
Greenstripe rockfish	<i>Sebastes elongatus</i>	
Kelp greenling	<i>Hexagrammos decagrammus</i>	
Lingcod	<i>Ophiodon elongatus</i>	
Painted greenling	<i>Oxylebius pictus</i>	
Tidepool sculpin	<i>Oligocottus maculosus</i>	
Scalyhead sculpin	<i>Artedius harringtoni</i>	
Longfin sculpin	<i>Jordania zonope</i>	
Sailfin sculpin	<i>Nautichthys oculofasciatus</i>	
Grunt sculpin	<i>Rhamphocottus richardsoni</i>	
Cabezon	<i>Scorpaenichthys marmoratus</i>	
Red Irish Lord	<i>Hemilepidotus hemilepidotus</i>	
Plainfin midshipman	<i>Porichthys notatus</i>	
Pacific spiny lumpsucker	<i>Eumicrotremus orbis</i>	
Speckled sanddab	<i>Citharichthys stigmaeus</i>	
Slender sole	<i>Lyopsetta exilis</i>	
C-O Sole	<i>Pleuronichthys coenosus</i>	
Marine Mammals		
Pacific harbour seal	<i>Phoca vitulina richardsi</i>	
Stellar sea lion	<i>Eumetopias jubatus</i>	
California sea lion	<i>Zalopus californianus</i>	
Orca	<i>Orcinus orca</i>	
Pacific white-sided dolphin	<i>Lagenorhynchus obliquidens</i>	

Marine Species at Toby Islet Reef

Common Name	Latin Name	Abundance Notes
Gray whale	<i>Eschrichtius robustus</i>	
Minke whale	<i>Balaeanoptera acutorostrata</i>	
River otter	<i>Lutra canadensis pacifica</i>	
Marine plants		
Sea hair	<i>Enteromorpha intestinalis</i>	
Sea lettuce	<i>Ulva spp.</i>	
Rockweed	<i>Fucus gardneri</i>	
Wireweed	<i>Sargassum muticum</i>	
Sea cauliflower	<i>Leathesia difformis</i>	
Bull kelp	<i>Nereocystis luetkeana</i>	
Broad leaf kelp	<i>Laminaria sp.</i>	
Purple laver	<i>Porphyra perforata</i>	
Turkish towel	<i>Chondracanthus exasperatus (Gigartina)</i>	
Turkish washcloth	<i>Mastocarpus papillatus</i>	
Black pine	<i>Neorhodomela larix</i>	
Pink rock crust	<i>Lithothamnion spp.</i>	
Coralline alge	<i>Calliathron sp.</i>	
Flowering plants		
Eel grass	<i>Zostera marina</i>	
Sea asparagus	<i>Salicornia virginica</i>	

Marine Species at Maude Reef, Lambert Channel

Common Name	Latin Name
Sponges	
Cloud sponge	<i>Aphrocallistes vastus</i>
Chimney sponge, Boot sponge	<i>Rhabdocalyptus dawsoni</i>
Chimney sponge, Boot sponge	<i>Staurocalyptus dowlingi</i>
Scallop sponges	<i>Myxilla, Mycale</i>
Velvety' red sponge	<i>Ophlitaspongia pennata</i>
Orange ball sponge	<i>Tethya californiana</i>
Aggregated vase sponge	<i>Polymastia pacifica</i>
Hydroids	
Sea Fir	<i>Abietinaria sp.</i>
Corals	
Orange sea pen	<i>Ptilosarcus gurneyi</i>
Sea whip	<i>Balticina septentrionalis</i>
Orange cup coral	<i>Balanophyllia elegans</i>
Zoanthids	<i>Epizoanthus scotinus</i>
Anemones	
Short plumose anemone	<i>Metridium senile</i>
Giant plumose anemone	<i>Metridium gigantium</i>
Aggregate green anemone	<i>Anthopleura elegantissima</i>
Buried green anemone	<i>Anthopleura artemisia</i>
Painted anemone	<i>Urticina crassicornis</i>
Tube-dwelling anemone	<i>Pachycerianthus fimbriatus</i>
Crimson anemone	<i>Cribrinopsis fernaldi</i>
Swimming anemone	<i>Stomphia sp.</i>
Jellyfish	
Water jellyfish	<i>Aequoria victoria</i>
Moon jellyfish	<i>Aurelia aurita</i>
Lion's mane jellyfish	<i>Cyanea capillata</i>
Jellyfish	<i>Aegina citrea</i>
Ctenophores	
Gooseberry	<i>Pleurobrachia bachei</i>
Beroe	<i>Beroe sp.</i>
Worms	
Fringed tube worms	<i>Dodecaceria fewkesi</i>
Calcareous tube worms	<i>Serpula vermicularis</i>
Slime tube worms	<i>Myxicolla infundibulum</i>
Lined ribbon worm	<i>Tubulanus sexlineatus</i>
Bryozoans	

Marine Species at Maude Reef, Lambert Channel

Common Name	Latin Name
Staghorn bryozoan	<i>Heteropora magna</i>
Kelp lace bryozoan	<i>Membranipora membranacea</i>
Crabs	
Purple shore crab	<i>Hemigrapsus nudus</i>
Yellow (Hairy) shore crab	<i>Hemigrapsus oregonensis</i>
Tanner crab, snow crab	<i>Chionocetes bairdi</i>
Sharpnose crab	<i>Scura acutifrons</i>
Graceful kelp crab	<i>Pugettia gracilis</i>
Northern kelp crab	<i>Pugettia producta</i>
Longhorn decorator crab	<i>Chorilia longipes</i>
Graceful decorator crab	<i>Oregonia gracilis</i>
Red rock crab	<i>Cancer productus</i>
Hairy cancer crab, pygmy rock crab	<i>Cancer oregonensis</i>
Shrimp	
Stiletto shrimp	<i>Heptacarpus stylus</i>
Threespine shrimp	<i>Heptacarpus tridens</i>
Candy stripe shrimp	<i>Lebbeus grandimanus</i>
Blade shrimp	<i>Spirontocaris sp</i>
Coonstripe shrimp, dock shrimp	<i>Pandalus danae</i>
Spot prawn, spot shrimp	<i>Pandalus platyceros</i>
Hermit crabs	
Bering hermit	<i>Pagurus beringanus</i>
Lithodid Crabs	
Spiny lithod crab	<i>Acantholithodes hispidus</i>
Umbrella crab	<i>Cryptolithodes sp.</i>
Rhinoceros crab	<i>Rhinolithodes wosnessenskii</i>
Heart crab	<i>Phyllolithodes papillosus</i>
Box crab	<i>Lopholithodes forminatus</i>
Puget Sound king crab	<i>Lopholithodes mandtii</i>
Squat lobster	<i>Munida quadrispina</i>
Barnacles	
Giant barnacle	<i>Balanus nubilus</i>
Acorn barnacle	<i>Balanus glandula</i>
Thatched barnacle	<i>Semibalanus cariosus</i>
Pelagic goose barnacle	<i>Lepas anatifera</i>
Bivalves	
Pacific blue mussel	<i>Mytilus edulis</i>
Pacific oyster	<i>Crassostrea gigas</i>
Jingle oyster	<i>Pododemus machroshisma</i>
Rock scallop	<i>Crassodomo gigantea</i>

Marine Species at Maude Reef, Lambert Channel

Common Name	Latin Name
Pink scallop	<i>Chalmys sp.</i>
Nuttall's cockle	<i>Clinocardium nuttallii</i>
Horse clam, gaper clam	<i>Tresus sp.</i>
Dark mahogany clam, varnish clam	<i>Nuttallia obscurata</i>
Pacific littleneck clam	<i>Protothaca staminea</i>
Manila clam	<i>Venerupis philippinarum</i>
Butter clam	<i>Saxidomus gigantea</i>
Pacific geoduck clam	<i>Panopea abrupta</i>
Snails	
Northern abalone	<i>Haliotis kamtschatkana</i>
Rough keyhole limpet	<i>Diodora aspera</i>
Blue topsnail	<i>Calliostoma ligatum</i>
Sitka periwinkle	<i>Littorina sitkana</i>
Checkered periwinkle	<i>Littorina sculata</i>
Mudflat snail	<i>Battilaria zonalis</i>
Oregon hairy triton	<i>Fusitriton oregonensis</i>
Lewis's moonsnail	<i>Euspira lewisii (Polinices lewisii)</i>
Leafy hornmouth snail	<i>Ceratostoma foliatum</i>
Limpets	
Whitecap limpet	<i>Acmaea mitra</i>
Shield limpet	<i>Lottia pelta</i>
Plate limpet	<i>Tectura scutum</i>
Mask limpet	<i>Tectura persona</i>
Nudibranchs	
Nanaimo dorid	<i>Acanthodoris nanaimoensis</i>
Catalina triopha	<i>Triopha catalinae</i>
Monterey dorid	<i>Archidoris montereyensis</i>
Sea lemon	<i>Anisodoris nobilis</i>
Leopard dorid	<i>Diaulula sandigensis</i>
Tochni	<i>Tochuina tetraquetra</i>
Giant nudibranch, spanish dancer	<i>Dendronotus iris</i>
Red dendronotid	<i>Dendronotus rufus</i>
Hooded nudibranch	<i>Melibe leonina</i>
White lined dirona	<i>Dirona albolineata</i>
Flabellina nudibranch	<i>Flabellina sp.</i>
Opalescent nudibranch	<i>Herimssenda crassicornis</i>
Cephalopods	
Giant Pacific octopus	<i>Octopus dofleni</i>
Red octopus	<i>Octopus rubescens</i>
Smooth-skinned octopus	<i>Lyoderma sp. (?)</i>
Stubby squid	<i>Rossia pacifica</i>

Marine Species at Maude Reef, Lambert Channel

Common Name	Latin Name
Chitons	
Lined chiton	<i>Tonicella lineata</i>
Giant Pacific chiton	<i>Cryptochiton stelleri</i>
Sea Stars	
Cookie star	<i>Ceramaster patagonicus</i>
Vermilion star	<i>Mediaster aequalis</i>
Cushion star, slime star	<i>Pteraster tesselatus</i>
Striped sunstar	<i>Solaster stimpsoni</i>
Morning sunstar	<i>Solaster dawsoni</i>
Northern sunstar	<i>Solaster endeca</i>
Rose star	<i>Crossaster papposus</i>
Leather star	<i>Dermasterias imbricata</i>
Blood star	<i>Henricia leviuscula</i>
Sunflower star	<i>Pycnopodia helianthoides</i>
Mottled star	<i>Evasterias troschelii</i>
Ochre star	<i>Pisaster ochraceus</i>
Short-spined pisaster	<i>Pisaster brevispinus</i>
Painted star, rainbow star	<i>Ortheastaster koehleri</i>
Long ray star	<i>Stylasterias forreri</i>
Sea cucumbers	
Orange sea cucumber	<i>Cucumaria miniata</i>
White sea cucumber	<i>Cucumaria pallida</i>
California sea cucumber	<i>Parastichopus californicus</i>
Creeping pedal (armoured) sea cucumber	<i>Psolus chitonoides</i>
Sea urchins	
Red sea urchin	<i>Strongylocentrotus franciscanus</i>
Green sea urchin	<i>Strongylocentrotus droebachiensis</i>
Sand dollar	<i>Dentaster excentricus</i>
Crinoids	
Feather star	<i>Florometra serratissima</i>
Ascidians	
Hairy sea squirt	<i>Boltenia villosa</i>
Glassy sea squirt	<i>Ascidia paratropa</i>
Sea peach	<i>Halocynthia aurantium</i>
Orange sea squirt	<i>Cnemidocarpa finmarkensis</i>
Transparent sea squirt	<i>Corella inflata</i>
Orange social ascidian	<i>Metandrocarpa sp.</i>
Lightbulb ascidian	<i>Clavelina huntsmani</i>
Fishes	
Spiny dogfish	<i>Squalus acanthias</i>

Marine Species at Maude Reef, Lambert Channel

Common Name	Latin Name
Sixgill shark	<i>Hexanchus griseus</i>
Big skate	<i>Raja binoculata</i>
Ratfish	<i>Hydrolagus colliei</i>
Pacific herring	<i>Clupea harengus pallasii</i>
Salmon	<i>Oncorhynchus sp.</i>
Pacific cod	<i>Gadus macrocephalus</i>
Red brotula	<i>Brosmophycis marginata</i>
Tube snout	<i>Aulorhynchus flavidus</i>
Bay pipefish	<i>Syngnathus griseolineatus</i>
Striped seaperch	<i>Ebmiotoca lateralis</i>
Pile perch	<i>Rhacochilus vacca</i>
Shiner perch	<i>Cymatogaster aggregata</i>
Blackeye goby	<i>Coryphopterus nicholsi</i>
Northern ronquil	<i>Ronquilus jordani</i>
Mosshead warbonnet	<i>Chirolophis nugator</i>
Penpoint gunnel	<i>Apodichthys flavidus</i>
Longfin gunnel	<i>Pholis clemensi</i>
Wolf-eel	<i>Anarrhichthys ocellatus</i>
Copper rockfish	<i>Sebastes caurinus</i>
Quillback rockfish	<i>Sebastes maliger</i>
Black rockfish	<i>Sebastes melanops</i>
Tiger rockfish	<i>Sebastes nigrocinctus</i>
Yelloweye rockfish	<i>Sebastes ruberrimus</i>
Greenstripe rockfish	<i>Sebastes elongatus</i>
Kelp greenling	<i>Hexagrammos decagrammus</i>
Lingcod	<i>Ophiodon elongatus</i>
Painted greenling	<i>Oxylebius pictus</i>
Tidepool sculpin	<i>Oligocottus maculosus</i>
Scalyhead sculpin	<i>Artedius harringtoni</i>
Longfin sculpin	<i>Jordania zonope</i>
Sailfin sculpin	<i>Nautichthys oculo-fasciatus</i>
Grunt sculpin	<i>Rhamphocottus richardsoni</i>
Cabezon	<i>Scorpaenichthys marmoratus</i>
Red Irish Lord	<i>Hemilepidotus hemilepidotus</i>
Plainfin midshipman	<i>Porichthys notatus</i>
Pacific spiny lumpsucker	<i>Eumicrotremus orbis</i>
Speckled sanddab	<i>Citharichthys stigmaeus</i>
Slender sole	<i>Lyopsetta exilis</i>
C-O Sole	<i>Pleuronichthys coenosus</i>
Marine Mammals	
Pacific harbour seal	<i>Phoca vitulina richardsi</i>
Stellar sea lion	<i>Eumetopias jubatus</i>
California sea lion	<i>Zalopus californianus</i>
Orca	<i>Orcinus orca</i>
Pacific white-sided dolphin	<i>Lagenorhynchus obliquidens</i>

Marine Species at Maude Reef, Lambert Channel

Common Name	Latin Name
Gray whale	<i>Eschrichtius robustus</i>
Minke whale	<i>Balaeanoptera acutorostrata</i>
River otter	<i>Lutra canadensis pacifica</i>
Marine plants	
Sea hair	<i>Enteromorpha intestinalis</i>
Sea lettuce	<i>Ulva spp.</i>
Rockweed	<i>Fucus gardneri</i>
Wireweed	<i>Sargassum muticum</i>
Sea cauliflower	<i>Leathesia difformis</i>
Bull kelp	<i>Nereocystis luetkeana</i>
Broad leaf kelp	<i>Laminaria sp.</i>
Purple laver	<i>Porphyra perforata</i>
Turkish towel	<i>Chondracanthus exasperatus</i> (<i>Gigartina</i>)
Turkish washcloth	<i>Mastocarpus papillatus</i>
Black pine	<i>Neorhodomela larix</i>
Pink rock crust	<i>Lithothamnion spp.</i>
Coralline alge	<i>Calliathron sp.</i>
Flowering plants	
Eel grass	<i>Zostera marina</i>
Sea asparagus	<i>Salicornia virginica</i>

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
Anemones					
Anthopleura artemisia	Buried green anemone	Non-vegetated shell aggregate or non-vegetated sand	Mid intertidal		CRS
Anthopleura	Aggregate green anemone	Non-vegetated bedrock, tidepools, shell aggregate	Mid intertidal		CRS
Cribrinopsis fernaldi	Crimson anemone	Non-vegetated bedrock, vertical, current	Subtidal 60 - 130'	Locally abundant at Toby, scarce at Flora, otherwise absent. Associated with Lebbus grandimanus shrimp.	SN
Metridium gigantium	Giant plumose	Non-vegetated bedrock or manmade	Subtidal 1 -		CRS
Metridium senile	Short plumose	Non-vegetated bedrock or manmade	Subtidal 1 -		CRS
Pachycerianthus fimbriatus	Tube-dwelling	Non-vegetated shell aggregate or non-vegetated sand	Subtidal 30 - 100'		CRS
Stomphia sp.	Swimming anemone	Non-vegetated bedrock	Subtidal 30 - 100'		CRS
Urticina crassicornis	Painted anemone	Non-vegetated bedrock, current swept	Subtidal 30 - 100'	Habitat limited, found in high current areas (Toby, Dinner Plate)	CRS
Ascidians					
Ascidia paratropa	Glassy sea squirt	Non-vegetated bedrock	Subtidal 30 - 130'		CRS
Boltenia villosa	Hairy sea squirt	Non-vegetated bedrock, vertical	Subtidal 30 - 130'		CRS
Clavelina huntsmani	Lightbulb ascidian	Non-vegetated bedrock	Subtidal 30 -		CRS
Cnemidocarpa finmarkensis	Orange sea squirt	Non-vegetated bedrock	Subtidal 30 -		CRS
Corella inflata	Transparent sea squirt	Non-vegetated bedrock	Subtidal 30 -		CRS
Halocynthia aurantium	Sea peach	Non-vegetated bedrock, vertical	Subtidal 30 - 130'		CRS
Metandrocarpa sp.	Orange social ascidian	Non-vegetated bedrock	Subtidal 30 -		CRS
Barnacles					
Balanus glandula	Acorn barnacle	Non-vegetated bedrock	High intertidal		CRS
Balanus nubilus	Giant barnacle	Non-vegetated bedrock, horizontal but esp. vertical or underhung, current swept	Subtidal 30 -	Generally scarce, abundant where current is sufficient	SN
Lepas anatifera	Pelagic goose barnacle	Man-mand structure	Floating buoy	One sighting only, on can buoys from submersible barge	US
Semibalanus cariosus	Thatched barnacle	Non-vegetated bedrock	High intertidal		CRS
Bivalves					
Chalmys sp.	Pink scallop	Non-vegetated bedrock	Subtidal 30 - 130'+		CRS
Clinocardium nuttallii	Nuttall's cockle	Non-vegetated sand/shell/mud or eelgrass	Subtidal 15 - 40'+		CRS
Crassodoma gigantea	Rock scallop	Non-vegetated bedrock	Subtidal 30 - 100'	Locally fairly numerous, know to be overharvested	SC
Crassostrea gigas	Pacific oyster	Non-vegetated bedrock or boulder/cobble	Mid intertidal	Very productive 'natural' bed on Flora	CRS

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
<i>Mytilus edulis</i>	Pacific blue mussel	Non-vegetated bedrock	Mid intertidal		CRS
<i>Nuttallia obscurata</i>	Dark mahogany clam, varnish clam	Non-vegetated sand, exposed	High to md intertidal	Abundant at Tribune Bay	CRS
<i>Panopea abrupta</i>	Pacific geoduck clam	Non-vegetated sand	Subtidal 30 - 100'+	Harvesting has downstream impacts from siltation.	SC
<i>Pododemus machroshisma</i>	Jingle oyster	Non-vegetated bedrock	Mid intertidal		CRS
<i>Protothaca staminea</i>	Pacific littleneck clam	Non-vegetated sand/gravel	Mid intertidal		CRS
<i>Saxidomus gigantea</i>	Butter clam	Non-vegetated sand/gravel	Mid intertidal		CRS
<i>Tresus</i> sp.	Horse clam, gaper clam	Non-vegetated sand/shell/mud or eelgrass	Subtidal 15 - 40'+		CRS
<i>Venerupis philippinarum</i>	Manila clam	Non-vegetated sand/gravel	Mid intertidal		CRS
Bryozoans					
<i>Heteropora magna</i>	Staghorn bryozoan	Non-vegetated bedrock	Subtidal 30 - 130'		CRS
<i>Membranipora membranacea</i>	Kelp lace bryozoan	Non-vegetated bedrock or on algae (Nereocystis or Laminaria)	Intertidal to 30'		CRS
Cephalopods					
<i>Lyoderma</i> sp. (?)	Smooth-skinned	Non-vegetated mud/silt	Subtidal 300'	Observed from submersibles, identified by Andy Lamb	US
<i>Octopus dofleii</i>	Giant Pacific octopus	Non-vegetated bedrock caves or dens esp adjacent to sand or eelgrass	Subtidal 30 - 130'+	Common species, high tourism value	SN
<i>Octopus rubescens</i>	Red octopus	Non-vegetated bedrock caves or dens esp adjacent to sand or eelgrass	Subtidal 30'+		
<i>Rossia pacifica</i>	Stubby squid	Non-vegetated mud/silt adjacent to non-vegetated rock	Subtidal 300'	Observed from submersibles only.	US
Chitons					
<i>Cryptochiton stelleri</i>	Giant Pacific chiton	Non-vegetated bedrock, non-vegetated sand	Subtidal 30 -		CRS
<i>Tonicella lineata</i>	Lined chiton	Non-vegetated bedrock	Mid intertidal to 130'		CRS
corals					
<i>Balanophyllia elegans</i>	Orange cup coral	Non-vegetated bedrock or ass'd with encrusting coralline alge	Subtidal 30 - 130'		CRS
<i>Balticina septentrionalis</i>	Sea whip	Non-vegetated sand	Subtidal 100'	One sighting only, Barney's	US
<i>Epizoanthus scotinus</i>	Zoanthids	Non-vegetated bedrock, vertical or underhung, current swept	Subtidal 30 - 100'	Habitat limited, found under underhangs in current	CRS
<i>Ptilosarcus gurneyi</i>	Orange sea pen	Non-vegetated sand/shell, incl pockets in rock	Subtidal 30 - 100'		CRS
crabs					
<i>Cancer oregonensis</i>	Hairy cancer crab, pygmy rock crab	Non-vegetated bedrock, in tight holes (sandstone pockets)	Subtidal 30 - 130'		CRS
<i>Cancer productus</i>	Red rock crab	Eelgrass or sargassum canopy	Subtidal 15 -		CRS
<i>Chionocetes bairdi</i>	Tanner crab, snow crab	Isolated boulder surrounded by mud/silt	Subtidal 300'	One sighting only, from submersible	US

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
<i>Chorilia longipes</i>	Longhorn decorator	Eelgrass or non-vegetated bedrock	Subtidal 15 - 100'		CRS
<i>Hemigrapsus nudus</i>	Purple shore crab	Non-vegetated bedrock, boulder/cobble	Mid intertidal		CRS
<i>Hemigrapsus oregonensis</i>	Yellow (Hairy) shore crab	Non-vegetated bedrock, boulder/cobble	Mid intertidal		CRS
<i>Oregonia gracilis</i>	Graceful decorator crab	Eelgrass or non-vegetated bedrock	Subtidal 15 - 100'		CRS
<i>Pugettia gracilis</i>	Graceful kelp crab	Eelgrass, Nereocystis or Laminaria canopy, pilings	Subtidal 15 -		CRS
<i>Pugettia producta</i>	Northern kelp crab	Eelgrass, Nereocystis or Laminaria canopy, pilings	Subtidal 15 -		CRS
<i>Scura acutifrons</i>	Sharpnose crab	Non-vegetated bedrock, vertical	Subtidal 30 - 130'		CRS
Crinoids					
<i>Florometra serratissima</i>	Feather star	Non-vegetated bedrock, vertical	Subtidal 60 - 130'	Locally fairly numerous at Flora, otherwise absent.	SN
Ctenophores					
<i>Beroe</i> sp.	Beroe	Pelagic, near shore & off shore	Subtidal 1 - 60'		CRS
<i>Pleurobrachia bachei</i>	Gooseberry	Pelagic, near shore & off shore	Subtidal 1 - 30'		CRS
Fishes					
<i>Anarrhichthys ocellatus</i>	Wolf-eel	Non-vegetated bedrock with boulders and den habitat	Subtidal 30 - 100'	Locally fairly numerous, high tourism value	SN
<i>Apodichthys flavidus</i>	Penpoint gunnel	Non-vegetated bedrock	Subtidal 30 - 130'		CRS
<i>Arteidius harringtoni</i>	Scalyhead sculpin	Non-vegetated bedrock	Subtidal 30 -		CRS
<i>Aulorhynchus flavidus</i>	Tube snout	Eelgrass	Subtidal 15 -		CRS
<i>Brosmophycis marginata</i>	Red brotula	Non-vegetated bedrock, vertical, in a cave	Subtidal 90'	One sighting only, Flora (pair in den)	US
<i>Chirolophis nugator</i>	Mosshead warbonnet	Non-vegetated bedrock, vertical, current	Subtidal 30 - 100'	High tourism value	SN
<i>Citharichthys stigmaeus</i>	Speckled sanddab	Eelgrass	Subtidal 15'	One sighting only, Barney's	US
<i>Clupea harengus pallasii</i>	Pacific herring	Pelagic, near shore & off shore		Forage fish	SC
<i>Coryphopterus nicholsi</i>	Blackeye goby	Non-vegetated bedrock, boulder, pebble or sand	Subtidal 30 - 130'		CRS
<i>Cymatogaster aggregata</i>	Shiner perch	Non-vegetated bedrock, sand or eelgrass	Shallow subtidal to 40'		CRS
<i>Ebmiotoca lateralis</i>	Striped seaperch	Non-vegetated bedrock, sand or eelgrass	Shallow subtidal to 40'		CRS
<i>Eumicrotremus orbis</i>	Pacific spiny	Eelgrass	Subtidal 20'	One sighting only, Ford Reef	US
<i>Gadus macrocephalus</i>	Pacific cod	Non-vegetated bedrock, vertical, in a cave	Subtidal 60'	One sighting only, Flora	US
<i>Hemilepidotus hemilepidotus</i>	Red Irish Lord	Non-vegetated bedrock or sand	Subtidal 30 -	Scarce, high tourism value	SN
<i>Hexagrammos decagrammus</i>	Kelp greenling	Non-vegetated bedrock or Laminaria	Subtidal 30 - 100'		CRS

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
Hexanchus griseus	Sixgill shark	Non-vegetated bedrock, vertical or non-vegetated sand with a steep slope adjacent to deep water	Subtidal 30 - 900'+	Key concentration at Flora Islet	SC
Hydrolagus colliei	Ratfish	Non-vegetated bedrock, vertical or non-vegetated sand with a steep slope adjacent to deep water	Subtidal 30 - 130'+		SC
Jordania zonope	Longfin sculpin	Non-vegetated bedrock	Subtidal 30 -		CRS
Lyopsetta exilis	Slender sole	Non-vegetated sand or mud/silt	Subtidal 300'	Observed from submersible	US
Nautichthys oculo-fasciatus	Sailfin sculpin	Non-vegetated bedrock or sand or eelgrass or Laminaria	Subtidal 30 -	High tourism value	SN
Oligocottus maculosus	Tidepool sculpin	Non-vegetated bedrock, shell or Black Pine	High to md intertidal		CRS
Oncorynchus sp.	Salmon			Occasionally observed by divers while feeding on herring	US
Ophiodon elongatus	Lingcod	Non-vegetated bedrock, vertical	Subtidal 40 - 130'+	Overfished	SC
Oxylebius pictus	Painted greenling	Non-vegetated bedrock, vertical	Subtidal 30 -		CRS
Pholis clemensi	Longfin gunnel	Non-vegetated bedrock	Subtidal 30 - 130'		CRS
Pleuronichthys coenosus	C-O Sole	Eelgrass	Subtidal 15'	One sighting only, Barney's	US
Porichthys notatus	Plainfin midshipman	Non-vegetated bedrock or sand	Subtidal 15 -		CRS
Raja binoculata	Big skate	Non-vegetated bedrock or non-vegetated	Subtidal 60 - 130'	Sightings are rare, best at Flora, Ford Reef	SN
Rhacochilus vacca	Pile perch	Non-vegetated bedrock, sand or eelgrass	Shallow subtidal to 40'		CRS
Rhamphocottus richardsoni	Grunt sculpin	Non-vegetated bedrock, vertical	Subtidal 30 - 100'	Scarce, high tourism value	SN
Ronquilus jordani	Northern ronquil	Non-vegetated bedrock, boulder, pebble or sand	Subtidal 30 - 130'	Also observed from submersible	CRS
Scorpaenichthys marmoratus	Cabezon	Non-vegetated bedrock	Subtidal 30 - 100'		CRS
Sebastes caurinus	Copper rockfish	Non-vegetated bedrock	Subtidal 30 -	Overfished	SC
Sebastes elongatus	Greenstripe rockfish	Non-vegetated sand or mud/silt	Subtidal 130'+	Observed from submersibles only.	US
Sebastes maliger	Quillback rockfish	Non-vegetated bedrock, vertical	Subtidal 30 - 130'+	Overfished	SC
Sebastes melanops	Black rockfish	Non-vegetated bedrock, vertical	Subtidal 30 - 130'+	Overfished	SC
Sebastes nigrocinctus	Tiger rockfish	Non-vegetated bedrock with boulders and den habitat	Subtidal 30 - 100'	Overfished	SC
Sebastes ruberrimus	Yelloweye rockfish	Non-vegetated bedrock, vertical	Subtidal 80 - 130'+	Overfished, Flora key habitat for	SC
Squalus acanthias	Spiny dogfish	All habitats, esp non-vegetated sand/mud	Subtidal 30 - 300'+	Locally fairly numerous, known to be overfished	SC

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
Syngnathus	Bay pipefish	Fucus or at surface over mud/silt	Intertidal or at surface over 30'		CRS
Flowering plants					
Salicornia virginica	Sea asparagus	Mud/silt	Mid intertidal	Ford Cove, Heron Rocks	
Zostera marina	Eel grass	Sand	Subtidal 15 -	Important habitat plant	SN
Hermit crabs					
Pagurus beringanus	Bering hermit	Non-vegetated bedrock or eelgrass	Subtidal 15 -		CRS
hydriods					
Abietinaria sp.	Sea Fir	Non-vegetated bedrock	Subtidal 30 - 130'		CRS
Jellyfish					
Aegina citrea	Jellyfish	Pelagic, off shore, deep water		One sighting only, from submersible	US
Aequoria victoria	Water jellyfish	Pelagic, near shore & off shore	Subtidal 1 -		CRS
Aurelia aurita	Moon jellyfish	Pelagic, near shore & off shore	Subtidal 1 -		CRS
Cyanea capillata	Lion's mane jellyfish	Pelagic, near shore & off shore	Subtidal 1 -	Very common, Summer 00	CRS
Limpets					
Acmaea mitra	Whitecap limpet	Non-vegetated bedrock			CRS
Lottia pelta	Shield limpet	Non-vegetated bedrock			CRS
Tectura persona	Mask limpet	Non-vegetated bedrock			
Tectura scutum	Plate limpet	Non-vegetated bedrock			CRS
Lithodid Crabs					
Acantholithodes hispidus	Spiny lithod crab	Non-vegetated bedrock, vertical (adjacent to mud/silt) or on cloud sponges	Subtidal 100 - 300'		US
Cryptolithodes sp.	Umbrella crab	Non-vegetated bedrock or non-vegetated sand/shell	Subtidal 30 - 100'		US
Lopholithodes forminatus	Box crab	Non-vegetated mud/silt	Subtidal 300'	Not observed by divers, caught in prawn traps	
Lopholithodes mandtii	Puget Sound king crab	Non-vegetated bedrock	Subtidal 30 - 130'	Slow growing, high tourism value	SN
Munida quadrispina	Squat lobster	Non-vegetated bedrock, vertical, or silt	Subtidal 60 - 130'		CRS
Phyllolithodes papillosus	Heart crab	Non-vegetated bedrock, vertical or underhung	Subtidal 30 -	Locally abundant at Ford Reef	US
Rhinolithodes wosnessenskii	Rhinoceros crab	Non-vegetated bedrock, vertical	Subtidal 90'	One sighting only, Flora, known to be rare	US
Marine Mammals					
Balaeanoptera acutorostrata	Minke whale				US
Eschrichtius robustus	Gray whale				US
Eumetopias jubatus	Stellar sea lion	Rocky islet haulouts		Seasonally abundant, high tourism value, Alaskan pop declining	SN, SC
Lagenorhynchus obliquidens	Pacific white-sided dolphin			One sighting only, Flora	US

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
<i>Lutra canadensis pacifica</i>	River otter	Manmade structures, rocky beaches		Uses terrestrial habitat at Flora extensively	
<i>Orcinus orca</i>	Orca	Harbour seal areas (Norris, Flora, Heron Rocks)		Flora & Norris key hunting areas	US
<i>Phoca vitulina richardsi</i>	Pacific harbour seal	Rocky islet haulouts			CRS
<i>Zalopus californianus</i>	California sea lion	Rocky islet haulouts		Seasonally abundant, high tourism	SN
Marine plants					
<i>Calliathron</i> sp.	Coralline alge				CRS
<i>Chondracanthus exasperatus</i> (Gigartina)	Turkish towel	Bedrock	Shallow		CRS
<i>Enteromorpha</i>	Sea hair	Bedrock or sand	High intertidal, lowered salinity		CRS
<i>Fucus gardneri</i>	Rockweed	Bedrock	High to md intertidal		CRS
<i>Laminaria</i> sp.	Broad leaf kelp	Bedrock	Subtidal 25 -	Main large alge, not particularly abundant	SN
<i>Leathesia difformis</i>	Sea cauliflower	Bedrock	Mid to low intertidal		CRS
<i>Lithothamnion</i> spp.	Pink rock crust	Bedrock	Subtidal 30 - 130'		CRS
<i>Mastocarpus papillatus</i>	Turkish washcloth	Bedrock	High intertidal, in tidepools		CRS
<i>Neorhodomela larix</i>	Black pine	Bedrock	High intertidal, in tidepools		CRS
<i>Nereocystis luetkeana</i>	Bull kelp	Bedrock	Shallow	Disappered from many areas withing last three years	SN, SC
<i>Porphyra perforata</i>	Purple laver	Bedrock	High to md intertidal		CRS
<i>Sargassum muticum</i>	Wireweed	Sand or mud/silt	Low intertidal to shallow	Introduced, abundant	SN
<i>Ulva</i> spp.	Sea lettuce	Bedrock	Mid intertidal		CRS
Nudibranchs					
<i>Acanthodoris nanaimoensis</i>	Nanaimo dorid	Non-vegetated bedrock	Subtidal 30 - 100'		CRS
<i>Anisodoris nobilis</i>	Sea lemon	Non-vegetated bedrock	Mid intertidal to 100'		CRS
<i>Archidoris montereyensis</i>	Monterey dorid	Non-vegetated bedrock	Mid intertidal to 100'		CRS
<i>Dendronotus iris</i>	Giant nudibranch, spanish dancer	Non-vegetated bedrock, sand, shell, mud/silt or eelgrass, lays eggs on Sargassum	Subtidal 15 - 100', also pelagic	Locally abundant, esp Maude Reef, Ford Cove	CRS
<i>Dendronotus rufus</i>	Red dendronotid	Non-vegetated bedrock, vertical or	Subtidal 30 -	Locally abundant, Dinner Plate,	US

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
		underhung, current swept		occasional Flora	
<i>Diaulula sandigensis</i>	Leopard dorid	Non-vegetated bedrock	Mid intertidal to 100'		CRS
<i>Dirona albolineata</i>	White lined dirona	Non-vegetated bedrock or Laminaria	Subtidal 30 -		CRS
<i>Flabellina</i> sp.	<i>Flabellina</i> nudibranch	Non-vegetated sand or shell	Subtidal 30 -	Locally abundant, esp Ford Cove	CRS
<i>Herimssenda crassicornis</i>	Opalescent nudibranch	Non-vegetated bedrock, non-vegetated sand or shell, manmade structures (seasonally abundant on mooring buoys)	Subtidal 30 - 100'		CRS
<i>Melibe leonina</i>	Hooded nudibranch	Eelgrass or Laminaria	Subtidal 30'	One sighting only, Ford Reef	US
<i>Tochuina tetraquetra</i>	Tochni	Non-vegetated bedrock	Subtidal 60 - 100'		US
<i>Triopha catalinae</i>	Catalina triopha	Non-vegetated bedrock	Subtidal 30 - 100'		US
Sea cucumbers					
<i>Cucumaria miniata</i>	Orange sea cucumber	Non vegetated bedrock (in cracks) or non-vegetated boulders	Mid intertidal to shallow		CRS
<i>Cucumaria pallida</i>	White sea cucumber	Non vegetated bedrock (in cracks) or non-vegetated boulders	Subtidal 30 -		CRS
<i>Parashichopus californicus</i>	California sea	Non vegetated bedrock or non-vegetated sand or mud/silt or eelgrass	Low intertidal to 100'		CRS
<i>Psolus chitonoides</i>	Creeping pedal (armoured) sea cucumber	Non-vegetated bedrock, vertical	Subtidal 30 - 100'		CRS
Sea Stars					
<i>Ceramaster patagonicus</i>	Cookie star	Non-vegetated bedrock, vertical	Subtidal 60 - 130'		CRS
<i>Crossaster papposus</i>	Rose star	Non-vegetated bedrock	Subtidal 30 - 100'		CRS
<i>Dermasterias imbricata</i>	Leather star	Non-vegetated bedrock	Mid intertidal		CRS
<i>Evasterias troschelii</i>	Mottled star	Non-vegetated mud/silt	Mid intertidal to shallow		CRS
<i>Henricia leviuscula</i>	Blood star	Non-vegetated bedrock	Subtidal 30 -		CRS
<i>Mediaster aequalis</i>	Vermillion star	Non-vegetated bedrock, vertical	Subtidal 30 - 130'		CRS
<i>Ortheastaster koehleri</i>	Painted star, rainbow star	Non-vegetated bedrock, laminaria	Subtidal 30 - 100'		CRS
<i>Pisaster brevispinus</i>	Short-spined pisaster	Non-vegetated bedrock or non-vegetated sand or mud or eelgrass	Mid intertidal to 300'		CRS
<i>Pisaster ochraceus</i>	Ochre star	Non-vegetated bedrock	Mid intertidal		CRS
<i>Pteraster tesselatus</i>	Cushion star, slime star	Non-vegetated bedrock, vertical	Subtidal 30 - 130'		CRS
<i>Pycnopodia</i>	Sunflower star	Non-vegetated bedrock, non-vegetated sand or shell, mud/silt or eelgrass	Subtidal 15 - 100'		CRS

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
Solaster dawsoni	Morning sunstar	Non-vegetated bedrock	Subtidal to 60'		CRS
Solaster endeca	Northern sunstar	Non-vegetated bedrock	Subtidal 30 -	Known to be scarce.	SN
Solaster stimpsoni	Striped sunstar	Non-vegetated bedrock	Low intertidal to 60'		CRS
Stylasterias forreri	Long ray star	Non-vegetated bedrock, vertical	Subtidal 60 - 130'	Fairly numerous, otherwise rare.	US
Sea urchins					
Dentraster excentricus	Sand dollar	Non-vegetated sand	Low intertidal to shallow		CRS
Strongylocentrotus droebachiensis	Green sea urchin	Non-vegetated bedrock	Low intertidal to 60'		CRS
Strongylocentrotus franciscanus	Red sea urchin	Non-vegetated bedrock	Low intertidal to 100'		CRS
Shrimp					
Heptacarpus stylus	Stiletto shrimp	Eelgrass or Laminaria	Subtidal 25'	One sighting only, Ford Reef	US
Heptacarpus tridens	Threespine shrimp	Non-vegetated bedrock	Subtidal 30 - 100'		CRS
Lebbeus grandimanus	Candy stripe shrimp	On Cribrinopsis anemone	Subtidal 60 - 130'	Locally abundant at Toby, associated with Cribrinopsis fernaldi	SN
Pandalus danae	Coonstripe shrimp, dock shrimp	Non-vegetated bedrock or non-vegetated sand/shell, or eelgrass	Subtidal 30 - 100'	Abundant	CRS
Pandalus platyceros	Spot prawn, spot shrimp	Non-vegetated bedrock, vertical or non-vegetated sand	Subtidal 30 - 300'	Abundant in deeper water, shallow water sighting at Barney's	CRS
Spirontocaris sp	Blade shrimp	Non-vegetated sand/shell near vertical	Subtidal 30'	One sighting only, Ford Reef	US
Snails					
Battilaria zonalis	Mudflat snail	Non-vegetated bedrock or sand/mud	High intertidal		CRS
Calliostoma ligatum	Blue topsnail	Non-vegetated bedrock	Subtidal 30 -		CRS
Ceratostoma foliatum	Leafy hornmouth snail	Non-vegetated bedrock, vertical or horizontal	Subtidal 30 -		CRS
Diodora aspera	Rough keyhole limpet	Non-vegetated bedrock	Subtidal 30 -		CRS
Euspira lewisii (Polinices lewisii)	Lewis's moonsnail	Non-vegetated pebble/gravel, sand, eelgrass	Subtidal 15 -		CRS
Fusitriton oregonensis	Oregon hairy triton	Non-vegetated bedrock, vertical or horizontal	Subtidal 30 - 130'		CRS
Haliotis kamtschatkana	Northern abalone	Non-vegetated bedrock	Subtidal 30 -	Scarce but present, including large individuals	SC
Littorina sculata	Checkered periwinkle	Non-vegetated bedrock or boulder/cobble	High intertidal		CRS
Littorina sitkana	Sitka periwinkle	Non-vegetated bedrock or boulder/cobble	High intertidal		CRS
Sponges					
Aphrocallistes vastus	Cloud sponge	Non-vegetated bedrock, vertical	Subtidal 100 - 200'+	Locally abundant at Flora, otherwise absent	SN, SC
Myxilla, Mycale	Scallop sponges	On scallops (Chalmys spp.)	Subtidal 30 - 130'		CRS

Habitats and notes of Marine Species of Helliwell Provincial Park

Latin Name	Common Name	Description	Depth	Abundance	notes
Ophlitaspongia pennata	Velvety' red sponge	Non-vegetated bedrock, under cover	Mid to low intertidal		CRS
Polymastia pacifica	Aggregated vase	Unconsolidated, packed mud/sand	Subtidal 90'	One sighting only, Flora	US
Rhabdocalypus dawsoni	Chimney sponge, Boot sponge	Non-vegetated bedrock, vertical	Subtidal 80 - 130'	Locally abundant at Flora, otherwise	SN
Staurocalypus dowlingi	Chimney sponge, Boot sponge	Non-vegetated bedrock, vertical	Subtidal 80 - 130'	Locally abundant at Flora, otherwise	SN
Tethya californiana	Orange ball sponge	Non-vegetated bedrock	Subtidal 30 -		CRS
worms					
Dodecaceria fewkesi	Fringed tube worms	Non-vegetated bedrock, current swept	Subtidal 30 -	Locally abundant at Maude Reef	CRS
Myxicolla infundibulum	Slime tube worms	Non-vegetated bedrock (holes) or non-vegetated sand/shell (in burrow)	Subtidal 30 - 100'		CRS
Serpula vermicularis	Calcareous tube worms	Non-vegetated bedrock	Subtidal 30 - 130'		CRS
Latin Name	Common Name	Descriptio	Depth	Abundance	note
Tubulanus sexlineatus	Lined ribbon worm	Non-vegetated bedrock	Subtidal 30 - 100'	Uncommon sighting	US