

**APPENDIX F: SPECIES INHABITING HABITATS IN THE PROPOSED
SANCTUARY**

Appendix F: Species Inhabiting Habitats in the Proposed Sanctuary

HABITAT: UNPROTECTED BEACH SURF

TROPHIC LEVEL: (1) PRODUCER
INVERTEBRATES

CHAETOCEROS ARMATUM
DIATOM

TROPHIC LEVEL: (1) PRODUCER
NON-VASCULAR PLANTS

ASTRIONELLA SOCIALIS
DIATOM

TROPHIC LEVEL: (1) PRODUCER
VASCULAR PLANTS

PHYLLOSPADIX SCOULERI
SCOULER'S SURFGRASS

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

ENDEODES COLLARIS
COLEOPTERA

TROPHIC LEVEL: (2) HERBIVORE
MAMMALS

OOCOILEUS HEMIONUS COLUMBIANO
BLACK-TAILED DEER

TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES

GLYCERIDAE
PROBOSCIS WORM

TROPHIC LEVEL: (3) CARNIVORE
BIRDS

LARUS ARGENTATUS
HERRING GULL
LARUS CALIFORNICUS
CALIFORNIA GULL
LARUS CANUS
MEW GULL
LARUS HEERMANNI
HEERMAN'S GULL
LARUS PHILADELPHIA
BONAPARTE'S GULL
RISSA TRIDACTYLA
BLACK-LEGGED KITTIWAKE

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

EUMETOPIAS JUBATA
STELLER'S SEA LION
LYNX RUFUS
BOBCAT
MIROJUNGA ANGSTIROSTRIS
ELEPHANT SEAL
MUSTELA FRENATA
LONG-TAILED WEASEL
MUSTELA VISON
MINK

PHOCA VITULINA
HARBOR SEAL
SPILOGALE PUTORIUS
SPOTTED SKUNK
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ALLOMISCUS PERCONVEXUS
ISOPODS
CALLIANASSA CALIFORNIENSIS
GHOST SHRIMP
CIROLANA KINCAIDI
ISOPODS
COELOPA
KELP FLY
EUZONUS MUCRONATA
BLOOD WORMS
ORCHESTOIDEA CALIFORNIANA
SAND FLEE
SPIONIDAE
WORM

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

CRAGO NIGRACAUDA
BLACK-TAILED SHRIMP
CRAGO SPP.
-NULL-

TROPHIC LEVEL: (5) OMNIVORE
FISHES

PHANERODON FURCATUS
WHITE SEAPERCH

TROPHIC LEVEL: (5) OMNIVORE
BIRDS

CORVUS BRACHYRHYNCHOS
COMMON CROW

TROPHIC LEVEL: (5) OMNIVORE
MAMMALS

MEPHITIS MEPHITIS
STRIPED SKUNK
PEROMYSCUS MANICULATUS
DEER MOUSE
PROCYON LOTOR
RACCOON

TROPHIC LEVEL: (6) PARASITE
INVERTEBRATES

ALEOCHARA ARENARIA
ROVE BEETLE
MALACOBDELLA SPP.
RIBBON WORM

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ARCHAEOMYSIS GREBNITZKII
MYSID
EMERITA ANALOGA

MOLE CRAB
SILLIQUA PATULA
RAZOR CLAM

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

OLIVELLA BIPLICATA
PURPLE OLIVE SNAIL

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

LARUS GLAUDESCENS
GLAUCOS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

CEREBRATULUS
RIBBON WORM
EOHAUSTORIUS WASHINGTONIANUS
AMPHIPOD
PONTOMALOTA OPACA
ROVE BEETLE
STAPHYLINIDAE
ROVE BEETLES
THINOPINUS PICTUS
ROVE BEETLE
THINUSA MARITIMA
ROVE BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

ALLOSMERUS ELONGATUS
WHITEBAIT SMELT
AMMODYTES HEXAPTERUS
PACIFIC SAND LANCE
AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
HYPOMESUS PRETIOSUS
SURFSMELT

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ARENARIA INTERPRES
RUDDY TURNSTONE
CALIDRIS ALBA
SANDERLING
CALIDRIS ALPINA
DUNLIN
CALIDRIS BAIRDII
BAIRD'S SANDPIPER
CALIDRIS CANUTUS
RED KNOT
CALIDRIS MAURI
WESTERN SANDPIPER
CHARADRIUS ALEXANDRINUS
SNOWY PLOVER
CHARADRIUS SEMIPALMATUS
SEMIPALMATED PLOVER
LIMNODROMUS GRISEUS
SHORT-BILLED DOWITCHER
LIMOSA FEDOA
MARBLED GOOWIT

HABITAT: UNPROTECTED BEACH SURF

NUMENIUS PHAEOPUS
WHIMBREL
PLUVIALIS SQUATAROLA
BLACK-BELLIED PLOVER

TROPHIC LEVEL: (Q) UNKNOWN
INVERTEBRATES

HAUSTORIIDAE
AMPHIPOD

HABITAT: PROTECTED BEACH SURF

<p><u>TROPHIC LEVEL: (1) PRODUCER VASCULAR PLANTS</u></p>	<p>RISSA TRIDACTYLA BLACK-LEGGED KITTIWAKE STERNA CASPIA CASPIAN TERN TRINGA FLAVIPES LESSER YELLOWLEGS</p>	<p>MEPHITIS MEPHITIS STRIPED SKUNK PEROMYSCUS MANICULATUS DEER MOUSE PROCYON LOTOR RACCOON</p>
<p>PHYLLOSPADIX SCOLIARI SCOULER'S SURFGRASS PLANTAGO MARITIMA SEASIDE PLANTAIN TENACETUM DOUGLASII DUNE TANSY</p>	<p><u>TROPHIC LEVEL: (3) CARNIVORE MAMMALS</u></p>	<p><u>TROPHIC LEVEL: (6) PARASITE INVERTEBRATES</u></p>
<p><u>TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES</u></p>	<p>EUMETOPIAS JUBATA STELLER'S SEA LION LYNX RUFUS BOBCAT MIROUNGA ANGSTIROSTRIS ELEPHANT SEAL MUSTELA FRENATA LONG-TAILED WEASEL MUSTELA VISON MINK PHOCA VITULINA HARBOR SEAL SPILOGALE PUTORIUS SPOTTED SKUNK ZALOPHUS CALIFORNIANUS CALIFORNIA SEA LION</p>	<p>MALACOBDELLA SPP. RIBBON WORM</p> <p><u>TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES</u></p>
<p>LUMBRINARIS ZONATA WORM</p>	<p><u>TROPHIC LEVEL: (4) DETRITIVORE INVERTEBRATES</u></p>	<p>ARCHAEOMYSIS GREBNITZKII MYSID EMERITA ANALOGA MOLE CRAB SILIQUA PATULA RAZOR CLAM</p>
<p><u>TROPHIC LEVEL: (2) HERBIVORE BIRDS</u></p>	<p>ABARENICOLA CLAPAREDI OCEANIC LUGWORM</p>	<p><u>TROPHIC LEVEL: (8) SCAVENGER INVERTEBRATES</u></p>
<p>BRANTA BERNICLA BRANT</p>	<p>CALLIANASSA CALIFORNIENSIS GHOST SHRIMP CIROLANA KINCAIDI ISOPODS EUZONUS MUCRONATA BLOOD WORM ORCHESTIA TRASKIANA LESSER BEACH HOPPER ORCHESTOIDEA CALIFORNIANA SAND FLEE/GREAT BEACH HOPPER</p>	<p>OLIVELLA BIPLICATA PURPLE OLIVE SNAIL</p>
<p><u>TROPHIC LEVEL: (2) HERBIVORE MAMMALS</u></p>	<p>SPIONIDAE WORM</p>	<p><u>TROPHIC LEVEL: (8) SCAVENGER BIRDS</u></p>
<p>ODOCOILEUS HEMIONUS COLUMBIANUS BLACK-TAILED DEER</p>	<p><u>TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES</u></p>	<p>HALIAEETUS LEUCOCEPHALUS BALD EAGLE LARUS GLAUDESCENS GLAUCOUS-WINGED GULL LARUS OCCIDENTALIS WESTERN GULL</p>
<p><u>TROPHIC LEVEL: (3) CARNIVORE INVERTEBRATES</u></p>	<p>CRAGO NICRACAUDA BLACK-TAILED SHRIMP CRAGO SPP. -NULL-</p>	<p><u>TROPHIC LEVEL: (9) INVERTEBRATE EATER - INVERTEBRATES</u></p>
<p>GLYCERIDAE PROBOSCIS WORM</p>	<p><u>TROPHIC LEVEL: (5) OMNIVORE FISHES</u></p>	<p>CEREBRATULUS RIBBON WORM EOMHAUSTORIUS WASHINGTONIANUS AMPHIPOD PARAMERMERTES PEREGRINA NEMERTEAN STAPHYLINIDAE ROVE BEETLES</p>
<p><u>TROPHIC LEVEL: (3) CARNIVORE FISHES</u></p>	<p>HYPERPROSOPOM ANGENTEUM WALLEYE SURFPERCH HYPERPROSOPOM ELLIPTICUM SILVER SURFPERCH</p>	<p><u>TROPHIC LEVEL: (9) INVERTEBRATE EATER - FISHES</u></p>
<p>MYOXOCEPHALUS POLYACANTHOCEPHA GREAT SCULPIN PAROPHRYS VETULUS ENGLISH SOLE PLATICTHYS STELLATUS STARRY FLOUNDER PSETTICTHYS MELANOSTICTUS SAND SOLE SEBASTES PAUCISPINIS BOCCACIO</p>	<p><u>TROPHIC LEVEL: (5) OMNIVORE BIRDS</u></p>	<p>ALLOSMERUS ELONGATUS WHITEBAIT SMELT ALOSA SAPIDISSIMA AMERICAN SHAD AMMODYTES HEXAPTERUS PACIFIC SAND LANCE AMPHISTICHUS RHODOTERUS REDTAIL SURFPERCH CLUPEA HARENGUS PALLASI PACIFIC HERRING CYMATOGASTER AGGREGATA SHINER PERCH HYPOMESUS PRETIOSUS SURFSMELT LEPTOCOTTUS ARMATUS PACIFIC STAGHORN SCULPIN</p>
<p><u>TROPHIC LEVEL: (3) CARNIVORE BIRDS</u></p>	<p>CORVUS BRACHYRHYNCHOS COMMON CROW</p>	
<p>ARDEA HERODIAS GREAT BLUE HERON LARUS ARGENTATUS HERRING GULL LARUS CALIFORNICUS CALIFORNIA GULL LARUS CANUS MEW GULL LARUS DELAWARENSIS RING-BILLED GULL LARUS HEERMANNI HEERMAN'S GULL LARUS PHILADELPHIA BONAPARTE'S GULL</p>	<p><u>TROPHIC LEVEL: (5) OMNIVORE MAMMALS</u></p>	

HABITAT: PROTECTED BEACH SURF

MICROGADUS PROXIMUS
PACIFIC TOMCOD

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ACTITIS MACULARIA
SPOTTED SANDPIPER
ARENARIA INTERPRES
RUDDY TURNSTONE
ARENARIA MELANOCEPHALA
BLACK TURNSTONE
CALIDRIS ALBA
SANDERLING
CALIDRIS ALPINA
DUNLIN
CALIDRIS BAIRDII
BAIRD'S SANDPIPER
CALIDRIS CANUTUS
RED KNOT
CALIDRIS MAURI
WESTERN SANDPIPER
CALIDRIS MINUTILLA
LEAST SANDPIPER
CHARADRIUS ALEXANDRINUS
SNOWY PLOVER
CHARADRIUS SEMIPALMATUS
SEMIPALMATED PLOVER
CHARADRIUS VOCIFERUS
KILLDEER
LIMNODROMUS GRISEUS
SHORT-BILLED DOWITCHER
LIMNODROMUS SCOLOPACEUS
LONG-BILLED DOWITCHER
LIMOSA FEDQA
MARBLED GODWIT
LOBIPES LOBATUS
NORTHERN PHALAROPE
NUMENIUS AMERICANUS
LONG-BILLED CURLEW
NUMENIUS PHAEOPUS
WHIMBREL
PLUVIALIS DOMINICA
AMERICAN GOLDEN PLOVER
PLUVIALIS SQUATAROLA
BLACK-BELLIED PLOVER
TRINGA MELANOLEUCA
GREATER YELLOWLEGS

TROPHIC LEVEL: (Q) UNKNOWN
INVERTEBRATES

HAUSTORIIDAE
AMPHIPOD

HABITAT: UNPROTECTED ROCKY SURF

TROPHIC LEVEL: (1) PRODUCER NON-VASCULAR PLANTS

ALARIA NANA
-NULL-
BOSSEA MANZA
LEAF CORAL
BRYOPSIS CORTICULANS
SEA FERN
CALLIARTHRON MANZA
BEAD CORAL
CALLITHAMNION PIKEANUM
BEAUTY BUSH
CLADOPHORA TRICHOTOMA
GREEN BALL
CODIUM FRAGILE
SEA STAGHORN
CODIUM SETCHELII
SPUNGY CUSHION
CORALLINA GRACILIS
GRACEFUL CORAL
COSTARIA COSTATA
SEERSUCKER
CUMAGLOIA ANDERSONII
-NULL-
CYAMATHERE TRIPLICATA
TRIPLE RIB
CYSTOSEIRA OSMUNDACEA
WOODY CHAIN BLADDER
EGREGIA MENZIESII
FEATHER BOA
ENDOCLADIA MURICATA
NAIL BRUSH
ENTEROMORPHA COMPRESSA
GREEN CONFETTI
ENTEROMORPHA INTESTINALIS
LINK CONFETTI
ENTEROMORPHA PLUMOSA
SILK CONFETTI
GRATELOUPIA PINNATA
POINTED LYNX
HALICYSTIS OVALIS
-NULL-
HEDOPHYLLUM SESSILE
SEA CABBAGE
MYMENA FLABELLIGERA
VEINED FAN
IRIDOPHYCUS SPECIES
IRIDESCENT SEAWEED
LAMINARIA ANDERSONII
SPLIT WHIP WRACK
LAMINARIA PLATYMERIS
SEA GIRDLE OR TANGLE
LAMINARIA SETCHELII
-NULL-
LESSONIOPSIS LITTORALIS
-NULL-
LITHOTHAMNIUM SPECIES
RED ROCK CRUST
MICROCLADIA BOREALIS
COARSE SEA LACE
PELVETIOPSIS LIMITATA
-NULL-
PLEUROPHYCUS GARDNERI
SEA SPATULA

POLYSIPHONIA PACIFICA
POLLY PACIFIC
PORPHYRA LANCEOLATA
RED JABOT LABER
PORPHYRA PERFORATA
RED LAVER
POSTELSIA PALMAEFORMIS
SEA PALM
PRESIDLA MERIDIONALIS
-NULL-
PRIONITIS LANCEOLATA
-NULL-
PRIONITIS LYALLII
LYALL'S SEAWEED
PTERYGOPHORA CALIFORNICA
POMPON
PTILOTA FILICINA
RED WING
PTILOTA HYPNOIDES
-NULL-
RALFSIA PACIFICA
TAR SPOT
SCHIZYMENIA PACIFICA
SEA ROSE
SCYTOSIPHON LOMENTARIA
WHIP TUBE
SPONGOMORPHA COALITA
GREEN ROPE
UROSPORA MIRABILIS
-NULL-

TROPHIC LEVEL: (1) PRODUCER VASCULAR PLANTS

PHYLLOSPADIX SCOLERI
SCOLER'S SURFGRASS

TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES

ACMAEA DIGITALIS
LIMPET
ACMAEA Pelta
BROWN & WHITE SHIELD LIMPET
DIDDORA ASPERA
KEYHOLE LIMPET
KATHERINA TUNICATA
BLACK CHITON
NUTTALINA CALIFORNICA
CHITON
PARACLUNIO ALASKENSIS
MIDGE
STRONGLYOCENTROTUS PURPURATUS
PURPLE SEA URCHIN

TROPHIC LEVEL: (3) CARNIVORE INVERTEBRATES

ANISODORIS NOBILIS
SEA LEMON
PISASTER GIGANTEUS
SEASTAR
PISASTER OCHRACEUS
SEASTAR
THAIS
SNAIL

TROPHIC LEVEL: (3) CARNIVORE FISHES

ASCELICHTHYS RHODORUS
ROSYLIP SCULPIN
RAJA STELLULATA
STARRY SKATE
SEBASTES MELANOPS
BLACK ROCKFISH

TROPHIC LEVEL: (3) CARNIVORE BIRDS

AECHEMOPHORUS OCCIDENTALIS
WESTERN GREBE
CEPPHUS COLUMBA
PIGEON GUILLEMOT
CERORHINCA MONOCERATA
RHINOCEROUS AUKLET
GAVIA ARCTICA
ARCTIC LOON
HAEMATOPUS BACHMANI
BLACK OYSTERCATCHER
HISTRIONICUS HISTRIONICUS
HARLEQUIN DUCK
LARUS ARGENTATUS
HERRING GULL
LARUS CALIFORNICUS
CALIFORNIA GULL
LARUS CANUS
MEW GULL
LARUS HEERMANNI
HEERMAN'S GULL
LUNDA CIRRHATA
TUFTED PUFFIN
MELANITTA DEGLANDI
WHITE-WINGED SCOTER
PELECANUS OCCIDENTALIS
BROWN PELICAN
PHALOCROCORAX AURITUS
DOUBLE-CRESTED CORMORANT
PHALOCROCORAX PELAGICUS
PELAGIC CORMORANT
PHALOCROCORAX PENICILLATUS
BRANDT'S CORMORANT
RISSA TRIDACTYLA
BLACK-LEGGEED KITTIWAKE
URIA AALGE
COMMON MURRE

TROPHIC LEVEL: (3) CARNIVORE MAMMALS

ENHYDRA LUTRIS
SEA OTTER
EUMETOPIAS JUBATA
STELLER'S SEA LION
LUTRA CANADENSIS
RIVER OTTER
MIROUNGA ANGUSTIROSTRIS
ELEPHANT SEAL
MUSTELA VISON
MINK
PHOCA VITULINA
HARBOR SEAL
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRITIVORE INVERTEBRATES

HABITAT: UNPROTECTED ROCKY SURF

EUDISTYLIA VANCOUVERI
SABELLID
IDOTEA SCHMITTI
ISOPOD
IDOTEA WOSNESENSKII
OLIVE GREEN ISOPOD
LIGIA PALLASI
ROCK LOUSE
SABELLARIA CEMENTARIUM
WORM

TROPHIC LEVEL: (5) OMNIVORE
MAMMALS

PROCYON LOTOR
RACCOON

TROPHIC LEVEL: (6) PARASITE
INVERTEBRATES

FABIA SUBQUADRATA
PEA CRAB
HETEROSACCUS CALIFORNICUS
-NULL-

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

BALANUS GLANDULA
BARNACLE
MYTILUS CALIFORNIANUS
MUSSEL
NEANTHES BRANDTI
WORM
POLLICIPES POLYMERUS
PACIFIC GOOSE BARNACLE
VOLSELLA MODIOLUS
HORSE MUSSEL

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

LARUS GLAUDESCENS
GLAUCCOUS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

AMBLOPUSA BOREALIS
ROVE BEETLE
CEPHALOTHORIX LINEARIS
NEMERTEAN
DIAULOTA DENSISSIMA
ROVE BEETLE
EMPLECTONEMA GRACILE
RIBBON WORM
LIPAROCEPHALUS CORDICOLLIS
ROVE BEETLE
MICRURA VERRILLI
NEMERTEAN
PARAMERMES PEREGRINA
NEMERTEAN
THALASSOTRECHUS BARBARAE NIGRI
GROUND BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
CYMATOGASTER AGGREGATA
SHINER PERCH

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ACTITIS MACULARIA
SPOTTED SANDPIPER
APHRIZA VIRGATA
SURFBIRD
ARENARIA INTERPRES
RUDDY TURNSTONE
ARENARIA MELANOCEPHALA
BLACK TURNSTONE
CALIDRIS PTILOCNEMIS
ROCK SANDPIPER
HETEROSCELUS INCANUM
WANDERING TATTLER
NUMENIUS PHAEOPUS
WHIMBREL

TROPHIC LEVEL: (9) UNKNOWN
INVERTEBRATES

HAPALOGASTER CAVICAUDA
CRAB

HABITAT: PROTECTED ROCKY SURF

TROPHIC LEVEL: (1) PRODUCER
NON-VASCULAR PLANTS

AGARUM FIMBRIATUM
SEA COLANDER
BOSSEA MANZA
LEAF CORAL
CALLIARTHON MANZA
BEAD CORAL
CALLITHAMNION PIKEANUM
BEAUTY BUSH
CERAMIIUM CALIFORNICUM
-NULL-
CERAMIIUM PACIFICUM
POTTERY SEAWEED
COILODESME CALIFORNICA
STICK BAG
COLPOMENTIA SINUOSA
POCKET OR OYSTER THIEF
CORALLINA CHILENSIS
TIDE POOL CORAL
CUMAGLOIA ANDERSONII
-NULL-
CYSTOPHYLLUM GERMINATUM
BLADDER LEAF
CYSTOSEIRA OSMONDACEA
WOODY CHAIN BLADDER
DESMARESTIA ACULEATA
CRISP COLOR CHANGER
DESMARESTIA INTERMEDIA
LOOSE COLOR CHANGER
DESMARESTIA MUNDA
WIDE BRANCH COLOR CHANGER
ENTEROMORPHA COMPRESSA
GREEN CONFETTI
ENTEROMORPHA INTESTINALIS
LINK CONFETTI
ENTEROMORPHA PLUMOSA
SILK CONFETTI
FUCUS FURCATA
ROCKWEED OR POPPING WRACK
GASTROCLONIUM COULTERI
SEA BELLY
GIGARTINA EXASPERATA
TURKISH TOWEL
GIGARTINA SPECIES
GRAPESTONE
GRATELOUPIA PINNATA
POINTED LYNX
HALICYSTIS OVALIS
-NULL-
HALOSACCION GLANDIFORME
SEA SAC
HETEROCHORDARIA ABIETINA
FIR NEEDLE
LAMINARIA PLATYMERIS
SEA GIRDLE OR TANGLE
LAMINARIA SACCHARINA
SUGAR WRACK
LAURENCIA SPECTABILIS
SEA LAUREL
LITHOTHAMNIUM SPECIES
RED ROCK CRUST
MACROCYSTIS INTEGRIFOLIA
KELP

MICROCLADIA COULTERI
DELICATE SEA LACE
PELVETIOPSIS LIMITATA
-NULL-
POLYNEURA PATISSIMA
CRISSCROSS NETWORK
POLYSIPHONIA COLLINSI
POLLY COLLINS
POLYSIPHONIA PACIFICA
POLLY PACIFIC
PORPHYRA LANCEOLATA
RED JABOT LAVER
PORPHYRA PURFORATA
RED LAVER
PRASIOILA MERIDIONALIS
-NULL-
PTILOTA FILICINA
RED WING
PTILOTA HYPNOIDES
-NULL-
RALFSIA PACIFICA
TAR SPOT
RHODOMELA LARIX
BLACK PINE
RHODYMENIA PALMATA
DULSE OR RED KALE
RHODYMENIA PERTUSA
RED EYELET SILK
SCYTOSIPHON LOMENTARIA
WHIP TUBE
SPONGOMORPHA COALITA
GREEN ROPE
ULVA FENESTRATA
-NULL-
ULVA LACTUCA
SEA LETTUCE
ULVA LINZA
GREEN STRING LETTUCE

TROPHIC LEVEL: (1) PRODUCER
VASCULAR PLANTS

JAUMEA CARNOSA
JAUMEA
PHYLLOSPADIX SCOULERI
SCOULER'S SURFGRASS
TANACETUM DOUGLASII
DUNE TANSY

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

ACMAEA DIGITALIS
LIMPET
ACMAEA FENESTRATA
LIMPET
ACMAEA LIMATULA
FILE LIMPET
ACMAEA MITRA
DUNCE-CAP LIMPET
ACMAEA Pelta
BROWN & WHITE SHIELD LIMPET
AMPITHOE HUMERALIS
-NULL-
CALLISTOCHITON CRASSICOSTATUS
CHITON
CRYPTOCHITON STELLERI
GUM BOOT CHITON
CYANOPLAX HARTWEGI
CHITON

KATHERINA TUNICATA
BLACK CHITON
LITTORINA PLANAXIS
PERIWINKLE
LITTORINA SCUTULINA
PERIWINKLE
LITTORINA SITKANA
PERIWINKLE
LUMBRINERIS ZONATA
WORM
MOPALIA CILIATA
CHITON
MOPALIA LIGNOSA
CHITON
ODONTOSYLLIS PHOSPHOREA
WORM
PARALUNIO ALASKENSIS
MIDGE
STRONGYLOCENTROTUS FRANCISCANU
SEA URCHIN
STRONGYLOCENTROTUS PURPURATUS
PURPLE SEA URCHIN

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

TONICELLA LINEATA
LINED CHITON

TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES

AEOLIDIA PAPILLOSA
NUDIBRANCH
AMBLOPUSA BOREALIS
ROVE BEETLE
ANISODORIS NOBILIS
SEA LEMON
CADLINA
NUDIBRANCH
CORAMBE PACIFICA
NUDIBRANCH
DIAULOTA DENSISSIMA
ROVE BEETLE
DIRONA ALBOLINEATA
NUDIBRANCH
LEPIDOZONA COOPERI
CHITON
LEPIDOZONA MERTENSI
CHITON
LIPAROCEPHALUS CORDICOLLIS
ROVE BEETLE
PISASTER GIGANTEUS
SEASTAR
PISASTER OCHRACEUS
SEASTAR
PLACIPHORELLA VELATA
CHITON
PYCNOGONUM STEARNSI
SEA SPIDER
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSTANGA PULCHRA
NUDIBRANCH
SOLASTER DOWSONI
SEASTAR
SOLASTER STIMSONI
SEASTAR
THAIS

HABITAT: PROTECTED ROCKY SURF

SNAIL

TROPHIC LEVEL: (3) CARNIVORE FISHES

ARTEDIUS LATERALIS
SMOOTHHEAD SCULPIN
ASCELICHTHYS RHODORUS
ROSYLIP SCULPIN
HEMILEPIDOTUS HEMILEPIDOTUS
RED IRISH LORD
HEMILEPIDOTUS SPINOSIS
BROWN IRISH LORD
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS LAGOCEPHALUS
ROCK GREENLING
MYOXOCEPHALUS POLYACANTHOCEPHA
GREAT SCULPIN
PAROPHYRUS VETULUS
ENGLISH SOLE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SEBASTES MELANOPS
BLACK ROCKFISH
XIPHISTER ATROPURPUREUS
BLACK PRICKLEBACK

TROPHIC LEVEL: (3) CARNIVORE BIRDS

AECHEMOPHORUS OCCIDENTALIS
WESTERN GREBE
ARDEA HERODIAS
GREAT BLUE HERON
BUCEPHALA ALBEOLA
BUFFLEHEAD
BUCEPHALA CLANGULA
COMMON GOLDENEYE
CEPPHUS COLUMBA
PIGEON GUILLEMOT
CERORHINCA MONOCERATA
RHINOCEROS AUKLET
GAVIA ARCTICA
ARCTIC LOON
HAEMATOPUS BACHMANI
BLACK OYSTERCATCHER
HISTRIONICUS HISTRIONICUS
HARLEQUIN DUCK
LARUS ARGENTATUS
HERRING GULL
LARUS CALIFORNICUS
CALIFORNIA GULL
LARUS CANUS
MEW GULL
LARUS HEERMANNI
HEERMAN'S GULL
LUNDA CIRRHADA
TUFTED PUFFIN
MEGACERYLE ALCYON
BELTED KINGFISHER
MELANITTA DEGLANDI
WHITE-WINGED SCOTER
MELANITTA PERSPICILLATA
SURF SCOTER
PELECANUS OCCIDENTALIS
BROWN PELICAN
PHALACROCORAX AURITIS

DOUBLE-CRESTED CORMORANT
PHALACROCORAX PELAGICUS
PELAGIC CORMORANT
PHALACROCORAX PENICILLATUS
BRANDT'S CORMORANT
RISSA TRIDACTYLA
BLACK-LEGGED KITTIWAKE
URIA AALGE
COMMON MURRE

TROPHIC LEVEL: (3) CARNIVORE MAMMALS

ENHYDRA LUTRIS
SEA OTTER
EUMETOPIAS JUBATA
STELLER'S SEA LION
LUTRA CANADENSIS
RIVER OTTER
MIROUNGA ANGSTIROSTRIS
ELEPHANT SEAL
MUSTELA VISON
MINK
PHOCA VITULINA
HARBOR SEAL
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRIVORE INVERTEBRATES

AMPHIODIA OCCIDENTALIS
BRITTLE STAR
AMPHITRITE ROBUSTA
POLYCHAETE WORM
CUCUMARIA MINIATA
SEA CUCUMBER
EUDISTYLIA POLYMORPHA
SABELLID
EUDISTYLIA VANCOUVERI
SABELLID
EUPOLYMNIA HETEROBRANCHIA
TEREBELLID WORM
IDOTEA SCHMITTI
ISOPOD
IDOTEA UROTOMA
PILL BUG
LIGIA PALLASI
ROCK LOUSE
MELITA PALMATA
BEACH HOPPER
NEOAMPHITRITE ROBUSTUS
TEREBELLID WORM
OPHIOPHOLIS ACULEATA
BRITTLE STAR
ORCHESTIA TRASKIANA
LESSER BEACH HOPPER
THELEPUS CRISPUS
WORM
TIGRIOPUS CALIFORNICUS
BUG

TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES

MOPALIA MUSCOSA
CHITON

TROPHIC LEVEL: (5) OMNIVORE FISHES

ANOPLARCHUS PURPURESCENS
HIGH COCKSCOMB
XIPHISTER MUCOSUS
ROCK PRICKLEBACK

TROPHIC LEVEL: (5) OMNIVORE BIRDS

AYTHYA MARILA
GREATER SCAUP
CORVUS BRACHYRHYNCHOS
COMMON CROW
CORVUS CORVAX
COMMON RAVEN

TROPHIC LEVEL: (5) OMNIVORE MAMMALS

PROCYON LOTOR
RACCOON

TROPHIC LEVEL: (6) PARASITE NON-VASCULAR PLANTS

JANCZEWSKIA GARDNERI
PARASITIC SEA LAUREL

TROPHIC LEVEL: (6) PARASITE INVERTEBRATES

ARCTONOE PULCHRA
SCALE WORM
ARCTONOE VITTATA
SCALE WORM
FABIA SUBQUADRATA
PEA CRAB
PINNIXA TUBICOLA
PEA CRAB
SYNDESMIS FRANCISCANUS
WORM

TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES

BALANUS CARIOSUS
BARNACLE
BALANUS GLANDULA
BARNACLE
BOCCARDIA PROBOSCIDEA
SPINOID WORM
SEGULA PACIFICA
BRYOZOAN
HALICHONDRIA PANICEA
CRUMB OF BREAD SPONGE
HENRICIA LEVIUSCULA
RED SEASTAR
HINNITES GIGANTEUS
ROCK OYSTER
HIPPODIPLOSTIA INSCULPTA
BRYOZOAN
LEPRALIA BILABIATA
BRYOZOAN
MEMBRANIPORA MEMBRANACEA
BRYOZOAN
MEMBRANIPORA SERRILAMELLA
BRYOZOAN
PEDICELLINA CERNUA
ENTOPROCT
PHIDOLOPORA PACIFICA
BRYOZOAN

HABITAT: PROTECTED ROCKY SURF

PLOCAMIA KARYKINA
RED SPONGE
SERPULA VEMICULARIS
WORM
SPIROBIS
WORM
TEREBRATALIA TRANSVERSA
BRACHIOPOD
TRICELLARIA OCCIDENTALIS
BROZOAN
XESTOSPONGIA VANILLA
SPONGE

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

HEMIGRAPUS NUDUS
PURPLE SHORE CRAB
PACHYCHELES RUDIS
PORCELAIN CRAB
PAGURUS GRANOSIMANUS
HERMIT CRAB
PAGURUS HEMPHILLI
HERMIT CRAB
PAGURUS SAMUELIS
HERMIT CRAB
PETROLISTHES CINCTIPES
PORCELAIN CRAB

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

HALIAEETUS LEUCOCEPHALUS
BALD EAGLE
LARUS GLAUDESCENS
GLAUCOUS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

ALLORCHESTES ANGUSTUS
-NULL-
AMPHIPORUS BIMACULATUS
RIBBON WORM
ANTHOPELURA ELEGANTISSIMA
AGGREGATED ANEMONE
ANTHOPELURA XANTHOGRAMMICA
GIANT GREEN ANEMONE
CANCER ANTENNARIUS
CRAB
CANCER MAGISTER
DUNGENESS CRAB
CANCER PRODUCTUS
CRAB
CEPHALOTHRIX LINEARIS
NEMERTEAN
CERATOSTOMA
FOLIATUM MUREX
EMPLECTONEMA GRACILE
RIBBON WORM
EPIACTIS PROLIFERA
ANEMONE
GLYCERA AMERICANA
WORM
HALOSYDNA BREVISETOSA
SCALE WORM
HERMISSENDA CRASSICORNIS
NUDIBRANCH

MICRURA VERRILLI
NEMERTEAN
PARAMERITES PEREGRINA
NEMERTEAN
PHOXICHLIDIUM FEMORATUM
SEA SPIDER
SPIRONTOCARIS BREVIROSTRIS
BROKEN BACK SHRIMP
SPIRONTOCARIS CRISTATA
BROKEN BACK SHRIMP
SPIRONTOCARIS PALUDICOLA
BROKEN BACK SHRIMP
SPIRONTOCARIS PRIONATA
BROKEN BACK SHRIMP
TEALIA CRASSICORNIS
ANEMONE
THALASSOTRECHUS BARBARAE NIGRI
GROUND BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

APODICHTHYS FLAVIDUS
PENPOINT GUNNEL
CHIROLOPHIS NUGATOR
MOSSHEAD WAR-BONNET
CLINOCOTTUS ACUTICEPS
SHARPNOSE SCULPIN
CLINOCOTTUS EMBRYUM
CALICO SCULPIN
CLINOCOTTUS GLOBICEPS
MOSSHEAD SCULPIN
CYMATOGASTER AGGREGATA
SHINER PERCH
GOBIESOX MAEANDRICUS
NORTHERN CLINGFISH
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS FLORAE
TIDEPool SNAILFISH
OLIGOCOTTUS MACULOSUS
TIDEPool SCULPIN
OLIGOCOTTUS SNYDERI
FLUFFY SCULPIN
PHOLIS LAETA
CRESCENT GUNNEL
RHACOCHEILUS VACCA
PILE PERCH
SPIRINCHUS STARKI
NIGHT SMELT
XERERPES FUCORUM
ROCKWEED GUNNEL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ACTITIS MACULARIA
SPOTTED SANDPIPER
APHRIZA VIRGATA
SURFBIRD
ARENARIA INTERPRES
RUDDY TURNSTONE
ARENARIA MELANOCEPHALA
BLACK TURNSTONE
CALIDRIS ALPINA
DUNLIN
CALIDRIS PTILOCNEMIS
ROCK SANDPIPER
HETEROSCELUS INCANUM
WANDERING TATTLER
NUMENIUS PHAEOPUS

WHIMBREL
PLUVIALIS SQUATAROLA
BLACK-BELLIED PLOVER
TRINGA MELANOLEUCA
GREATER YELLOWLEGS

TROPHIC LEVEL: (Q) UNKNOWN
INVERTEBRATES

ANAITIDES MEDIPAPILLATA
PADDLE WORM
ARABELLA IRICOLOR
WORM
ASTRAEA GIBBEROSA
SNAIL
CREPIDULA ADUNCA
HORNED SLIPPER SHELL
CRYPTOLITHODES SITCHENSIS
UMBRELLA-BACKED CRAB
DODECACERIA FISTULICOLA
CIRRATULID WORM
HAPALOGASTER CAVICAUDA
CRAB
LEPTASTERIA HEXACTIS
SEASTAR
LEPTASTERIA PUSILLA
SEASTAR
MIMULUS FOLIATUS
CRAB
DEDIGNATHUS INERMIS
CRAB
PATIRIA MINIATA
SEA BAT
PLATYNEREIS AGASSIZI
NEREID WORM
PODARKE PUGGETTENSIS
POLYCHAETE
PUGETTIA PRODUCTA
KELP CRAB
SCYRA ACUTIFRONS
MASKING CRAB
TEGULA FUNEBRALIS
BLACK TURBAN SNAIL

HABITAT: HEADLANDS AND ROCKY ISLANDS

TROPHIC LEVEL: (-)

VASCULAR PLANTS

ANTHOXANTHUM OORATUM
SWEET VERNALGRASS
HOLCUS LANATUS
COMMON VELVET-GRASS

TROPHIC LEVEL: (1) PRODUCER

VASCULAR PLANTS

AIRA PRAECOX
LITTLE HAIRGRASS
ALNUS RUBRA
RED ALDER
ANGELICA LUCIDA
SEA-WATCH
ARCTOSTAPHYLOS COLUMBIANA
BRISTLY MANZINITA
ARCTOSTAPHYLOS UVA-URSI
KINNIKINNIC
ARMERIA MERITIMA
THRIFT
BACCHARIS PILULARIS
CHAPARRAL BROOM
BLECHNUM SPICANI
DEER FERN
CALAMAGROSTIS NUTKAENSIS
REEDGRASS
CASTILLEJA LITORALIS
PACIFIC PAINTBRUSH
CEANOETHUS THYRSIFLORUS
BLUE BLOSSOM
CERASTIUM ARVENSE
FIELD CHICKWEED
CYTISUS SCOPARIUS
SCOTCH BROOM
DANTHONIA CALIFORNICA
OATGRASS
DESCHAMPSIA CAESPITOSA
TUFTED HAIRGRASS
DESCHAMPSIA LONGIFLORA
HAIRGRASS
DIGITALIS PURPUREA
FOXGLOVE
EMPETRUM NIGRUM
CROWBERRY
ERIGERON GLAUCUS
SEASIDE DOCK
FESTUCA MYUROS
RAT-TAIL FESCUE
FESTUCA RUBRA
RED FESCUE
FRAGARIA CHILOENSIS
COASTAL STRAWBERRY
GALIUM NUTTALII
NUTTAL'S BEDSTRAW
GAULTHERIA SHALLOO
SALAL
GNAPHALIUM CHILENSE
COTTON-BATTING PLANT
GRINDELIA INTEGRIFOLIA VAR. MA
PUGET SOUND GUMMEED
HERACLEUM LANATUM
COW-PARSNIP

HOLODISCUS DISCOLOR
OCEAN-SPRAY
HYPOCHAERIS RADICATA
GOSMORE
LASTHENIA CHRYSOSTOMA
LASTHENIA
LASTHENIA MINOR VAR. MARITIMA
HAIRY LASTHENIA
LATHYRUS LITTORALIS
BEACH PEA-VINE
LEONTODON NUDICAULIS
BRISTLY HAWKBIT
LILAEOPSIS OCCIDENTALIS
LILAEOPSIS
LONICERA INVOLUCRATA
BLACK TWINBERRY
LOTUS FORMOSISSIMUS
DEERVETCH, SEASIDE LOTUS
LUPINUS ARBOREUS
TREE LUPINE
LUPINUS VARICOLOR
TWO-COLOR LUPINE
MICROSERIS BIGILOVII
COAST MICROSERIS
MYRICA GALE
SWEET GALE
PINUS CONTORTA
LODGEPOLE PINE, SHORE PINE
PLANTAGO HIRTELLA
TALL COAST PLANTAIN
PLANTAGO LANCEOLATA
BUCKHORN PLANTAIN
POA PACHYPHOLIS
SEACLIFF BLUEGRASS
POLYPODIUM GLYCYRRHIZA
LICORICE FERN
POLYSTICHUM MUNITUM
SWORDFERN
PSEUDOTSUGA MENZIESII
DOUGLAS FIR
PTERIDIUM AQUILINUM
WESTERN BRACKEN FERN
RANUNCULUS FLAMMULA
SMALL CREEPING BUTTERCUP
RHAMNUS PURSHIANA
CASCARA
RHODODENDRON MACROPHYLLUM
WESTERN RHODODENDRON
RHUS DIVERSILOBA
POISON OAK
ROMANZOFFIA TRACYI
TRACY'S MISTMAIDEN
RUBUS SPECTABILIS
SALMONBERRY
RUBUS URSINUS
DOUGLASBERRY
RUMEX MARITIMUS
SEASIDE DOCK
SAGINA CRASSICAULIS
STICK-STEMMED PEARLWORT
SALIX HOOKERIANA
COAST WILLOW
SEDUM LANCEOLATUM VAR. NESIOTI
LANCE-LEAVED STONECROP
SIDALCEA HIRTIPES
HAIRY-STEMMED CHECKER-MALLOW
STACHYS RIGIDA
HEDGE NETTLE
TANACETUM DOUGLASII
DUNE TANSY

THUJA PLICATA
WESTERN RED CEDAR
ULEX EUROPAEUS
GORSE
VACCINIUM OVATUM
EVERGREEN HUCKLEBERRY
VACCINIUM PARVIFOLIUM
RED HUCKLEBERRY
VERATRUM VIRIDE
FALSE HELLEBORE

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

PARACLUNIO ALASKENSIS
MIDGE

TROPHIC LEVEL: (2) HERBIVORE
BIRDS

BONASA UMBELLUS
RUFFED GROUSE
CARDUELIS PINUS
PINE SISKIN
CARDULIS TRISTIS
AMERICAN GOLDFINCH
CARPODACUS MEXICANUS
HOUSE FINCH
CARPODACUS PURPUREUS
PURPLE FINCH
COLUMBA FASCIATA
BAND-TAILED PIGEON
DENDRAGAPUS OBSCURUS
BLUE GROUSE
HESPERIPHONA VESPERTINA
EVENING GROSBEAK
JUNCO HYEMALIS
DARK-EYED JUNCO
LOPHORTYX CALIFORNICUS
CALIFORNIA QUAIL
LOXIA CURVIROSTRA
RED CROSSBILL
MELOSPIZA MELCOIA
SONG SPARROW
MELOTHRUS ATER
BROWN-HEADED COBIRD
OREORTYX PICTUS
MOUNTAIN QUAIL
PASSERELLA ILIACA
FOX SPARROW
PHEUCTICUS MELANOCEPHALUS
BLACK-HEADED GROSBEAK
PIPILO ERYTHROPHthalmus
RUFIOUS-SIDED TOWHEE
SELASPHORUS RUFUS
RUFIOUS HUMMINGBIRD
SPIZELLA PASSERINA
CHIPPING SPARROW
ZENAIDA MACROURA
MOURNING DOVE
ZONOTRICHIA ATRICAPILLA
GOLDEN-CROWNED SPARROW
ZONOTRICHIA LEUCOPHRYS
WHITE-CROWNED SPARROW

TROPHIC LEVEL: (2) HERBIVORE
MAMMALS

MICROTUS LONGICAUDUS
LONG-TAILED VOLE

HABITAT: HEADLANDS AND ROCKY ISLANDS

MICROTUS OREGONI
OREGON VOLE
THOMOMYS MONTICOLA
MOUNTAIN POCKET GOPHER

TROPHIC LEVEL: (3) CARNIVORE
HERPETOFAUNA

THAMNOPHIS ORDINOIDES
NORTHWESTERN GARTER SNAKE
THAMNOPHIS SIRTALIS
COMMON GARTER SNAKE

TROPHIC LEVEL: (-)
BIRDS

PANDION HALIAETUS
OSPREY

TROPHIC LEVEL: (3) CARNIVORE
BIRDS

ACCIPITER COOPERII
COOPER'S HAWK
ACCIPITER STRIATUS
SHARP-SHINNED HAWK
AEGOLIUS ACADICUS
SAW-WHET OWL
ASIO OTUS
LONG-EARED OWL
BUBO VIRGINIANUS
GREAT HORNED OWL
BUTEO JAMAICENSIS
RED-TAILED HAWK
CEPPHUS COLUMBA
PIGEON GUILLEMOT
CERORHINCA MONOCERATA
RHINOCEROS AUKLET
FALCO PEREGRINUS
PEREGRINE FALCON
GLAUCIDIOM GNOMA
PYGMY OWL
LUNDA CIRRHATA
TUFTED PUFFIN
OCEANODROMA FURCATA
FORK-TAILED STORM PETREL
OCEANODROMA LEUCORHOA
LEACH'S STORM PETREL
OTUS ASIO
SCREECH OWL
PHALOCROCORAX AURITUS
DOUBLE-CRESTED CORMORANT
PHALOCROCORAX PELAGICUS
PELAGIC CORMORANT
PHALOCROCORAX PENICILLATUS
BRANDT'S CORMORANT
PTYCHORAMPHUS ALEUTICUS
CASSIN'S AUKLET
TYTO ALBA
BARN OWL
URIA AALGE
COMMON MURRE

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

CANIS LATRANS
COYOTE
FELIS CONCOLOR
MOUNTAIN LION

LYNX RUFUS
BOBCAT
MUSTELA ERMINEA
SHORT-TAILED WEASEL
SPILOGALE PUTORIUS
SPOTTED SKUNK
UROCYON CINERARGENTEUS
GRAY FOX
VULPES FULVA
RED FOX

TROPHIC LEVEL: (5) OMNIVORE
BIRDS

BOMBYCILLA CEDRORUM
CEDAR WAXWING
CORVUS BRACHYRHYNCHOS
COMMON CROW
CORVUS CORVAX
COMMON RAVEN
CYANOCITTA STELLERI
STELLER'S JAY
PERIOSOREUS CANADENSIS
GRAY JAY
PIRANGA LUDOVICIANA
WESTERN Tanager
STURNUS VULGARIS
STARLING
TURDUS MIGRATORIUS
AMERICAN ROBIN

TROPHIC LEVEL: (5) OMNIVORE
MAMMALS

DIDELPHIS MARSUPIALIS
COMMON OPPOSUM
EURACTOS AMERICANUS
BLACK BEAR
MEPHITIS MEPHITIS
STRIPED SKUNK
PEROMYSCUS MANICULATUS
DEER MOUSE
PROCYON LOTOR
RACCOON
ZAPUS TRINOTATUS
PACIFIC JUMPING MOUSE

TROPHIC LEVEL: (6) PARASITE
VASCULAR PLANTS

BOSCHNIAKIA HOOKERI
SMALL GROUND-CONE

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

CATHARTES AURA
TURKEY VULTURE
HALIAEETUS LEUCOCEPHALIS
BALD EAGLE
LARUS GLAUCESSCENS
GLAUCOUS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

AMBLOPUSA BOREALIS
ROVE BEETLE

DIAULOTA DENSISSIMA
ROVE BEETLE
LIPAROCEPHALUS CORDICOLLIS
ROVE BEETLE
THALASSOTRECHUS BARBARAE NIGRI
GROUND BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - HERPETOFAUNA

AMBYSTOMA GRACILE
BROWN SALAMANDER
BUFO BOREAS
WESTERN TOAD

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - HERPETOFAUNA

GERRHONOTUS COERULEUS
NORTHERN ALLIGATOR LIZARD
HYLA REGILLA
PACIFIC TREEFROG
PLETHODON DUNNI
DUNNS SALAMANDER
RHYACOTRITON OLYMPICUS
OLYMPIC SALAMANDER
TARICHA GRANULOSA
ROUGH-SKINNED NEWT

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

CATHARUS GUTTATUS
HERMIT THRUSH
CATHARUS USTULATUS
SHAINSON'S THRUSH
CERTHIA FAMILIARIS
BROWN CREEPER
CHAETURA VAUXI
VAUX'S SWIFT
CHAMAEA FASCIATA
WRENTIT
CHORDEILES MINOR
COMMON NIGHTHAWK
COLAPTES AURATUS
COMMON FLICKER
CONTOPUS SORDIDULUS
WESTERN WOOD PEWEE
CYPSELOIDES NIGER
BLACK SWIFT
DENDROICA CORONATA
YELLOW-RUMPED WARBLER
DENDROICA NIGRESCENS
BLACK-THROATED GRAY WARBLER
DENDROICA OCCIDENTALIS
HERMIT WARBLER
DENDROICA PETECHIA
YELLOW WARBLER
DENDROICA TOWNSENDI
TOWNSEND'S WARBLER
DRYOCOPUS PILEATUS
PILEATED WOODPECKER
EMPIDONAX DIFFICILIS
WESTERN FLYCATCHER
EMPIDONAX HAMMONDII
HAMMOND'S FLYCATCHER
EMPIDONAX OBERHOLSERI
DUSKY FLYCATCHER
EMPIDONAX TRILLII
WILLOW FLYCATCHER

HABITAT: HEADLANDS AND ROCKY ISLANDS

HIRUNDO RUSTICA
BARN SWALLOW
IRIDOPROCNE BICOLOR
TREE SWALLOW
IXOREUS NAEVIUS
VARIED THRUSH
MYADESTES TOWNSENDI
TOWNSEND'S SOLITAIRE
NUTTALLORNIS BOREALIS
OLIVE-SIDED FLYCATCHER
OPORORNIS TOLMIEI
MCGILLIVRAY'S WARBLER
PARUS ATRICAPILLUS
BLACK-CAPPED CHICKADEE
PARUS RUFESCENS
CHESTNUT-BACKED CHICKADEE
PETROCHELIDON PYRRHONOTA
CLIFF SWALLOW
PICOIDES PUBESCENS
DOWNY WOODPECKER
PICOIDES VILLOSUS
HAIRY WOODPECKER
PROGNE SUBIS
PURPLE MARTIN
PSALTRIPARUS MINIMUS
BUSHTIT
REGULUS CALENDULA
RUBY-CROWNED KINGLET
REGULUS SATRAPA
GOLDEN-CROWNED KINGLET
SITTA CANADENSIS
RED-BRESTED NUTHATCH
SITTA CAROLINENSIS
WHITE-BRESTED NUTHATCH
SPHYRAPICUS VARIUS
YELLOW-BELLIED SAPSUCKER
STELGIDOPTERYX RUFICOLLIS
ROUGH-WINGED SWALLOW
TACHYGINETA THALASSINA
VIOLET-GREEN SWALLOW
THRYOMANES BEWICKII
BEWICK'S WREN
TROGLODYTES AEDON
HOUSE WREN
TROGLODYTES TROGLODYTES
WINTER WREN
VERMIVORA CELATA
ORANGE-CROWNED WARBLER
VERMIVORA RUFICAPILLA
NASHVILLE WARBLER
VIREO GILVUS
WARBLING VIREO
VIREO HUTTONI
HUTTON'S VIREO
VIREO SOLITARIUS
SOLITARY VIREO
WILSONIA PUSILLA
WILSON'S WARBLER

SOREX VAGRANS
VAGRANT SHREW

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - MAMMALS

EPTESICUS FUSCUS
BIG BROWN BAT
MYOTIS LICIFUGUS
LITTLE BROWN MYOTIS
NEUROTRICHUS GIBBSII
SHREW-MOLE
SCAPANUS TOWNSENDII
TOWNSEND'S MOLE

HABITAT: HEADLANDS AND ROCKY ISLANDS

TROPHIC LEVEL: (1) PRODUCER NON-VASCULAR PLANTS

ASTERIONELLA FORMOSA
DIATOM
ASTERIONELLA JAPONICA
DIATOM
ASTERIONELLA KARIANA
DIATOM
BACTERIASTRUM DELICATULUM
DIATOM
CERATIUM
DINOFLAGELLATE
CHAETOCEROS COMPRESSUS
DIATOM
CHAETOCEROS CONVOLUTUS
DIATOM
CHAETOCEROS RADICANS
DIATOM
COCCOLITHOPHORES
COCCOLITHS
DACTYLIOSOLEN MEDITERRANEUS
DIATOM
FRAGILARIA
DIATOM
GONYAULAX
DINOFLAGELLATE
LEPTOCYLINDRICUS DANICUS
DIATOM
MELOSIRA ISLANDICA
DIATOM
OTHER FLAGELLATES
FLAGELLATES
PERIDINIUM
DINOFLAGELLATE
RHIZOSOLENIA ALATA
DIATOM
RHIZOSOLENIA DELICATULA
DIATOM
RHIZOSOLENIA FRAGILISSIMA
DIATOM
SYNEDRA ULNA
DIATOM
THALASSIONEMA NITZSCHIOIDES
DIATOM

TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES

ACARTIA CLAUSI
COPEPOD
ACARTIA DANAE
COPEPOD
ACARTIA LONGIREMIS
COPEPOD
ACARTIA NEGLIGENS
COPEPOD
AETIDEOPSIS PACIFICA
COPEPOD
AETIDEUS ARMATUS
COPEPOD
AETIDEUS PACIFICUS
COPEPOD

AMALLOTHRIX VALIDA
COPEPOD
AMALLOTHRIX VORAK
COPEPOD
ARIETELLUS PLUMIFER
COPEPOD
BATHYCALANUS BRADYI
COPEPOD
BOREOMYSIS
COPEPOD
BOREOMYSIS ROSTRATA
COPEPOD
CALANUS CRISTATUS
COPEPOD
CALANUS FINMARCHICUS
COPEPOD
CALANUS PLUMCHRUS
COPEPOD
CALANUS TENUICORNIS
COPEPOD
CALOCALANUS STYLIREMIS
COPEPOD
CANDACIA BIPINNATA
COPEPOD
CAVOLINA UNCINATA
PTEROPOD
CENTRAUGAPTILUS PORCELLUS
COPEPOD
CENTROPAGES MCMURRICHI
COPEPOD
CHIRUNDINA STREETSII
COPEPOD
CLAUSOCALANUS ARCUICORNIS
COPEPOD
CLAUSOCALANUS PERGENS
COPEPOD
CLIO BALANTIUM
PTEROPOD
CLIONE LIMACINA
PTEROPOD
COROLLA SPECTABILIS
PTEROPOD
CORYCAEUS
COPEPOD
CTENOCALANUS VANUS
COPEPOD
EPILABIDOCERA AMPHITRITES
COPEPOD
EUCALANUS ATTENUATUS
COPEPOD
EUCALANUS BUNGII
COPEPOD
EUCHAETA SPINOSA
COPEPOD
EUCHIRELLA CURTICAUDA
COPEPOD
EUCOPIA
COPEPOD
EVADNE NORMANNI
CLADOCERAN
GAETANUS SECUNDUS
COPEPOD
GAETANUS SIMPLEX
COPEPOD
GADIUS BREVISPINUS
COPEPOD
GADIUS VARIABILIS
COPEPOD
GAUSSIA PRINCEPS
COPEPOD

HABITAT: EUPHOTIC PELAGIC

GIGANTOCYPRIS AGASSIZII
OSTRACOD
GNATHOPHAUSIA GIGAS
COPEPOD
GNATHOPHAUSIA INGENS
COPEPOD
HALOPTILUS PSEUDOXYPHALUS
COPEPOD
HETERORHABDUS TANNERI
COPEPOD
HETEROSTYLITES LONGICORNIS
COPEPOD
HETEROSTYLITES MAJOR
COPEPOD
LUCICUTIA BICORNUTA
COPEPOD
LUCICUTIA FLAVICORNIS
COPEPOD
METRIDEA LUCENS
COPEPOD
METRIDIA CURTICAUDA
COPEPOD
MICROCALANUS PYGMAEUS
COPEPOD
MICROSETELLA
COPEPOD
MIXTOCALANUS ROBUSTUS
COPEPOD
OITHONA
COPEPOD
ONCAEA CONIFERA
COPEPOD
PARACALANUS PARVUS
COPEPOD
PAREUCHAETA BIROSTRATA
COPEPOD
PAREUCHAETA JAPONICA
COPEPOD
PHAENNA SPINIFERA
COPEPOD
PLEUROMAMMA BOREALIS
COPEPOD
PLEUROMAMMA SCUTULLATA
COPEPOD
PODON LEUCKARTI
CLADOCERAN
PSEUDOCALANUS MINUTUS
COPEPOD
PSEUDOCHEIRELLA POLYSPINA
COPEPOD
RACOVITZANUS FORRECTA
COPEPOD
RACOVITZANUS PACIFICA
COPEPOD
RHINCALANUS NASUTUS
COPEPOD
SCAPHOCALANUS MEDIUS
COPEPOD
SCAPHOCALANUS MINUTUS
COPEPOD
SCAPHOCALANUS SUBELONGATUS
COPEPOD
SCOLECITHRICELLA MINOR
COPEPOD
SCOTTICALANUS SEDATUS
COPEPOD
TORTANIS DISCAUDATUS
COPEPOD
UNDEUCHAETA INTERMEDIA
COPEPOD

UNDEUCHAETA MAJOR
COPEPOD
UNDEUCHAETA PLUMOSA
COPEPOD

TROPHIC LEVEL: (2) HERBIVORE
BIRDS

BRANTA NIGRICANS
BLACK BRANT

TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES

ABRALIOPSIS FELIS
SQUID
AEGINA CITREA
JELLYFISH
AEGINURA GRIMALDII
JELLYFISH
AEQUOREA
JELLYFISH
AGLANTHA DIGITALE
JELLYFISH
ATOLLA VANHOEFFENII
JELLYFISH
ATOLLA WYVELLEI
JELLYFISH
AURELIA LABIATA
JELLYFISH
BARGMANNIA
JELLYFISH
BEROE CUCUMIS
COMB JELLY
BOTRYNEMA BRUCEI
JELLYFISH
CALYCOPSIS NEMATOPHORA
JELLYFISH
CARANARIA JAPONICA
HETEROPOD
CHELOPHYES APPENDICULATA
JELLYFISH
CHELOPHYES MULTIDENTATA
JELLYFISH
CHIROTEUTHIS VERANYI
SQUID
CHUNIPHYES MOSERAE
JELLYFISH
COLOBONEMA SERVICEUM
JELLYFISH
CRANCHIA SCABRA
SQUID
CROSSOTA ALBA
JELLYFISH
CROSSOTA PEDUNCULATA
JELLYFISH
CROSSOTA RUFOBUNNEA
JELLYFISH
CUNINA OCTONARIA
JELLYFISH
CYANEA
JELLYFISH
EUPHYSORA FURCATA
JELLYFISH
EUTONIA INDICANS
JELLYFISH
GALITEUTHIS ARMATA
SQUID
GONATOPSIS BOREALIS
SQUID

GONATUS ANONYCHUS
SQUID
GONATUS FABRICII
SQUID
GONATUS MAGISTER
SQUID
HALICREAS MINIMUM
JELLYFISH
HALISTAURA CELLULARIA
JELLYFISH
HISTIOTEUTHIS HETEROPSIS
SQUID
LENSIA CONOIDEA
JELLYFISH
LIMACINA HELACINA
PTEROPOD
LOLIGO OPALESCENS
SQUID
MOROTEUTHIS ROBUSTA
SQUID
MUGGIAEA ATLANTICA
JELLYFISH
NANOMIA CARA
JELLYFISH
OCTOPOTEUTHIS SICULA
SQUID
ONYCHOTEUTHIS BANKSI
SQUID
PANTACHOGON HAECKELI
JELLYFISH
PARAPHYLLINA RANSONI
JELLYFISH
PERIPHYLLA PERIPHYLLA
JELLYFISH
PHYSOPHORA HYDROSTATICA
JELLYFISH
PLEUROBRACHIA PILEUS
COMB JELLY
PRAYA DUBIA
JELLYFISH
PRAYA RETICULATA
JELLYFISH
PTEROTRACHEA SCUTUTA
HETEROPOD
SARSIA PRINCEPS
JELLYFISH
SARSIA TUBULOSA
JELLYFISH
SOLMISSUS INCISA
JELLYFISH
SOLMISSUS MARSHALLI
JELLYFISH
SULCULEOLARIA QUADRIVALVIS
JELLYFISH
TAONIUS PALVO
SQUID
VAMPYROTEUTHIS INFERNALIS
SQUID
VELELLA VELELLA
JELLYFISH
VOGTIA SPINOSA
JELLYFISH

TROPHIC LEVEL: (3) CARNIVORE
FISHES

ALOPIAS VULPINUS
THRESHER SHARK
BRACHYISTIUS FRENATUS
KELP PERCH

HABITAT: EUPHOTIC PELAGIC

EPTATRETUS DEANI
 BLACK HAGFISH
 EPTATRETUS STOUTI
 PACIFIC HAGFISH
 GADUS MACROCEPHALUS
 PACIFIC COD
 GALEORHINUS ZYOPTERUS
 SOUPFIN SHARK
 HEXANCHUS GRISEUS
 SIXGILL SHARK
 HYDROLAGUS COLLIEI
 RATFISH
 LAMNA DITROPSIS
 SALMON SHARK
 MERLUCCIIUS PRODUCTUS
 PACIFIC HAKE
 MARONE SAXATILIS
 STRIPED BASS
 NOTORYNCHUS MACULATUS
 SPOTTED COWSHARK OR SEVENGILL
 ONCORHYNCHUS GORBUSCHA
 PINK SALMON
 ONCORHYNCHUS KETA
 CHUM SALMON
 ONCORHYNCHUS KISUTCH
 COHO SALMON
 ONCORHYNCHUS TSHAWYTSCHA
 CHINOOK SALMON
 PRIONACE GLAUCA
 BLUE SHARK
 RAJA KINCAIDI
 BLACK SKATE
 RAJA RHINA
 LONGNOSE SKATE
 RAJA STELLULATA
 STARRY SKATE
 SALMO CLARKI
 CUTTHROAT TROUT
 SALMO GAIRDNARI
 STEELHEAD TROUT
 SALVALINUS MALMA
 DOLLY VARDEN
 SEBASTES ALUTUS
 PACIFIC OCEANPERCH
 SEBASTES CRAMERI
 BLACKMOUTH ROCKFISH OR DARKBLOOD
 SEBASTES DIPLOPROA
 SPLITNOSE ROCKFISH
 SEBASTES FLAVIDUS
 YELLOWTAIL ROCKFISH
 SEBASTES PINNEGER
 CANARY ROCKFISH
 SEBASTOLOBUS ALASCANUS
 SHORTSPINE ROCKFISH
 SOMNIOSUS PACIFICUS
 PACIFIC SLEEPER SHARK
 SQUALIS ACANTHIAS
 SPINY DOGFISH
 THERAGRA CHALCOGRAMMA
 WALLEYE POLLOCK
 TORPEDO CALIFORNICA
 PACIFIC ELECTRIC RAY
 TRIAKIS SEMIFASCIATA
 LEOPARD SHARK

TROPHIC LEVEL: (-)
BIRDS

CEPPHUS COLUMBRA
 PIGEON GUILLEMOT

STERNA PARADISAEA
 ARCTIC TERN
 TROPHIC LEVEL: (3) CARNIVORE
BIRDS

AECHEMOPHORUS OCCIDENTALIS
 WESTERN GREBE
 BRACHYRAMPHUS MARMORATUM
 MARBELED MURRELET
 CERORHINCA MONOCERATA
 RHINOCEROS AUKLET
 CLANGULA HYMALIS
 OLDSQUAW
 DICMEDEA NIGRIPES
 BLACK-FOOTED ALBATROSS
 FULMARIS GLACIALIS
 NORTHERN FULMAR
 GAVIA ARCTICA
 ARCTIC LOON
 GAVIA IMMER
 COMMON LOON
 GAVIA STELLATA
 RED-THROATED LOON
 HISTRIONICUS HISTRIONICUS
 HARLEQUIN DUCK
 LARUS ARGENTATUS
 HERRING GULL
 LARUS CALIFORNICUS
 CALIFORNIA GULL
 LARUS CANUS
 MEW GULL
 LARUS DELAWARENSIS
 RING-BILLED GULL
 LARUS GLAUDESCENS
 GLAUCCOUS-WINGED GULL
 LARUS HEERMANNI
 HEERMANN'S GULL
 LARUS OCCIDENTALIS
 WESTERN GULL
 LARUS PHILADELPHIA
 BONAPARTE'S GULL
 LARUS THAYERI
 THAYERS GULL
 LOBIPES LOBATUS
 NORTHERN PHALAROPE
 LUNDRRA CIRRHATA
 TUFTED PUFFIN
 MELANITTA DEGLANDI
 WHITE-WINGED SCOTER
 MELANITTA NIGRA
 BLACK SCOTER
 MELANITTA PERSPICILLATA
 SURF SCOTER
 MERGUS SERRATOR
 RED-BRESTED MERGANSER
 OCEANODROMA FURCATA
 FORK-TAILED STORM-PETREL
 OCEANODROMA LEUCORHOA
 LEACH'S STORM-PETREL
 PELICANUS OCCIDENTALIS
 BROWN PELICAN
 PHALACROCORAX AURITUS
 DOUBLE-CRESTED CORMORANT
 PHALACROCORAX PELAGICUS
 PELAGIC CORMORANT
 PHALACROCORAX PENICILLATUS
 BRANDT'S CORMORANT
 PHALAROPUS FULICARIUS
 RED PHALAROPE

PODICEPS AURITUS
 HORNED GREBE
 PODICEPS GRISEGENA
 RED-NECKED GREBE
 PTYCHORAMPHUS ALEUTICA
 CASSIN'S AUKLET
 PUFFINUS BULLERI
 BULLER'S SHEARWATER
 PUFFINUS CARNEIPES
 FLESH-FOOTED SHEARWATER
 PUFFINUS CREATOPUS
 PINK-FOOTED SHEARWATER
 PUFFINUS GRISEUS
 SOOTY SHEARWATER
 PUFFINUS TENUIROSTRIS
 SHORT-TAILED SHEARWATER
 RISSA TRIDACTYLA
 BLACK-LEGGED KITTIWAKE
 STERNA CASPIA
 CASPIAN TERN
 STERNA FORSTERI
 FORSTER'S TERN
 STERNA HIRUNDO
 COMMON TERN
 SYNTHLIBORAMPHUS ANTIQUUM
 ANCIENT MURRELET
 URIA AALGE
 COMMON MURRE
 XEMA SABINI
 SABINE'S GULL

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

BERARDIUS BAIRDI
 BAIRD'S BEAKED WHALE
 CALLORHINUS URSINUS
 NORTHERN FUR SEAL
 DELPHINUS DELPHIS
 COMMON DOLPHIN
 EUMETOPIAS JUBATUS
 NORTHERN OR STELLAR SEA LION
 GLOBICEPHALA MACRORHYNCHUS
 BLACK FISH OR SHORT-FINNED PIL
 GRAMPUS GRISEUS
 RISSO'S DOLPHIN
 KOGIA BREVICEPS
 PYGMY SPERM WHALE
 LAGENORHYNCHUS OBLIQUIDENS
 PACIFIC STRIPED/WY-SIDED
 DOLPHIN
 LISSODELPHIS BOREALIS
 NORTHERN RIGHT WHALE DOLPHIN
 MESOPLODON CARLHUBBSI
 HUBB'S BEAKED WHALE
 MESOPLODON STEJNEGERI
 STEJNEGER'S BEAKED WHALE
 MIROUNGA AUGUSTIROSTRIS
 NORTHERN ELEPHANT SEAL
 ORCINUS ORCA
 KILLER WHALE
 PHOCA VITULINA
 HARBOR SEAL
 PHOCOENA PHOCOENA
 HARBOR PORPOISE
 PHOCOENOIDES DALLI
 DALL PORPOISE
 PHYSETER CATODON
 SPERM WHALE
 PSEUDORCA CRASSIDENS

HABITAT: EUPHOTIC PELAGIC

FALSE KILLER WHALE
 STENELLA COERULEOALBA
 STRIPED DOLPHIN/GRAY'S PORPOISE
 ZALOPHUS CALIFORNIANUS
 CALIFORNIA SEA LION
 ZIPHEUS CAVIROSTRIS
 CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (5) OMNIVORE
 INVERTEBRATES

BENTHEUPHAUSIA AMBLYOPS
 EUPHASID
 EUPHAUSIA PACIFICA
 EUPHASID
 NEMATOBRACHION FLEXIPES
 EUPHASID
 NEMATOCELIS DIFFICILIS
 EUPHASID
 STYLOCHEIRON ABBRVIATUM
 EUPHASID
 STYLOCHEIRON LONGICORNE
 EUPHASID
 STYLOCHEIRON MAXIMUM
 EUPHASID
 TESSARABRACHION OCLATUS
 EUPHASID
 THYANOESSA GREGARIA
 EUPHASID
 THYANOESSA INSPINATA
 EUPHASID
 THYANOESSA LONGIPES
 EUPHASID
 THYANOESSA PARVA
 EUPHASID
 THYANOESSA RASCHII
 EUPHASID
 THYANOESSA SPINIFERA
 EUPHASID
 THYSANOPODA ACUTIFRONS
 EUPHASID
 THYSANOPODA CORNUTA
 EUPHASID
 THYSANOPODA EGREGIA
 EUPHASID

TROPHIC LEVEL: (5) OMNIVORE
 FISHES

SARDINOPS SAGAX
 PACIFIC SARDINE

TROPHIC LEVEL: (6) PARASITE
 FISHES

ENTOSPHEMUS TRIDENTATUS
 PACIFIC LAMPREY
 LAMPETRA AYRESI
 RIVER LAMPREY

TROPHIC LEVEL: (6) PARASITE
 BIRDS

CATHARACTA MCCORMICKI
 SOUTH POLAR SKUA
 STERCORARIUS LONGICAUDIS
 LONG-TAILED JAEGER
 STERCORARIUS PARASITICUS
 PARASITIC JAEGER
 STERCORARIUS POMARINUS

POMARINE JAEGER

TROPHIC LEVEL: (7) FILTER FEEDER
 INVERTEBRATES

DOLIOLUM
 SALP
 HELIOSCALPA VIRGULA
 SALP
 IASIS ZONARIA
 SALP
 OIKOPLEURA
 LARVACEAN
 PEGEA CONFOEDERATA
 SALP
 SALPA FUSIFORMIS
 SALP
 THALIA DEMOCRATICA
 SALP
 THETYS VAGINA
 SALP

TROPHIC LEVEL: (7) FILTER FEEDER
 MAMMALS

BALAENA GLACIALIS
 BLACK OR PACIFIC RIGHT WHALE
 BALAENOPTERA ACUTOROSTRATA
 MINKE WHALE
 BALAENOPTERA BOREALIS
 SEI WHALE
 BALAENOPTERA MUSCULUS
 BLUE WHALE
 BALAENOPTERA PHYSALUS
 FINBACK OR FIN WHALE
 MEGAPTERA NOVEANGLIAE
 HUMPBACK WHALE

TROPHIC LEVEL: (9) INVERTEBRATE
 EATER - INVERTEBRATES

ACANTHEPHYRA CURTIROSTRIS
 SHRIMP
 BENTHEOGENNEMA
 SHRIMP
 BENTHEOGENNEMA BOREALIS
 SHRIMP
 CYSTISOMA FABRICII
 AMPHIPOD
 DAIRELLA CALIFORNICA
 AMPHIPOD
 EUKROHNNIA BATHYPELAGICA
 ARROW-WORM
 EUKROHNNIA FOWLERI
 ARROW-WORM
 EUKROHNNIA HAMATA
 ARROW-WORM
 GENNADUS INCERATUS
 SHRIMP
 GENNADAS PROPINQUUS
 SHRIMP
 HYMNOCODORA FRONTALIS
 SHRIMP
 HYMNOCODORA GLACIALIS
 SHRIMP
 HYMNOCODORA GRACILIS
 SHRIMP
 HYPERIA HYSTRIX
 AMPHIPOD
 HYPEROCHE DEDUSARUM
 AMPHIPOD

LANCEOLA LOVENI
 AMPHIPOD
 LYCAEA PULEX
 AMPHIPOD
 MENINGODORA MOLLIS
 SHRIMP
 NINOE GEMMA
 POLYCHAETE WORM
 NOTOSTOMUS JAPONICUS
 SHRIMP
 OXYCEPHALUS CLAUSI
 AMPHIPOD
 PARAPASIPHAE CRISTATA
 SHRIMP
 PARAPASIPHAE SUICATIFRONS
 SHRIMP
 PARAPHRONIMA CRASSIPES
 AMPHIPOD
 PARAPHRONIMA GRACILIS
 AMPHIPOD
 PARATHERMISTO PACIFICA
 AMPHIPOD
 PASIPHAEA CHACET
 SHRIMP
 PASIPHAEA MAGNA
 SHRIMP
 PASIPHAEA PACIFICA
 SHRIMP
 PETALIDIUM SUSPIRIOSUM
 SHRIMP
 PHRONIMA SEDENTARIA
 AMPHIPOD
 PHRONIMOPSIS SPINIFERA
 AMPHIPOD
 POEOBIUS MESERES
 POLYCHAETE WORM
 PRIMNO ABYSSALIS
 AMPHIPOD
 PRIMNO MACROPA
 AMPHIPOD
 RHYNCHONOREELLA ANGELINI
 POLYCHAETE WORM
 SAGITTA BIERII
 ARROW-WORM
 SAGITTA DECIPIENS
 ARROW-WORM
 SAGITTA ELEGANS
 ARROW-WORM
 SAGITTA EUNERITICA
 ARROW-WORM
 SAGITTA MACROCEPHALA
 ARROW-WORM
 SAGITTA MAXIMA
 ARROW-WORM
 SAGITTA MINIMA
 ARROW-WORM
 SAGITTA SCRIPPSAE
 ARROW-WORM
 SAGITTA ZETESIOS
 ARROW-WORM
 SCINA CRASSICORNIS BURMUDENSIS
 AMPHIPOD
 SEGESTES SIMILIS
 SHRIMP
 SERGIA TENUIREMIS
 SHRIMP
 STREETSIA CHALLENGERI
 AMPHIPOD
 SYSTELLAPSIS BRAUERI
 SHRIMP

HABITAT: EUPHOTIC PELAGIC

SYSTELLAPSI CRISTATA
SHRIMP
TOMOPTERIS CAVALLII
POLYCHAETE WORM
TOMOPTERIS NISSENI
POLYCHAETE WORM
TOMOPTERIS PACIFICA
POLYCHAETE WORM
TRYPHANA MALMI
AMPHIPOD
VIBILIA ARMATA
AMPHIPOD
VIBILIA PROQUINQUA
AMPHIPOD
VIBILIA WOLTERECKI
AMPHIPOD

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

ALLOSMERUS ELONGATUS
WHITEBAIT SMELT
ALOSA SAPIDISSIMA
AMERICAN SHAD
AMMOOYTES HEXAPTERUS
PACIFIC SAND LANCE
AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
ATHERINOPS AFFINIS
TOPSMELT
CETORHINUS MAXIMUS
BASKING SHARK
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
COLLABIS SAIRA
PACIFIC SAURY
CYMATOGASTER AGGREGATA
SHINER PERCH
EMBIOTOCA LATERALIS
STRIPED SEAPERCH
ENGRAULIS MORDAX
NORTHERN ANCHOVY
HYPOMESUS PRETIOSUS
SURFSMELT
MICROGADUS PROXIMUS
PACIFIC TOMCOD
ONCORHYNCHUS NERKA
SOCKEYE SALMON
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
SPIRINCHUS STARKSI
NIGHT SURF SMELT
SPIRINCHUS THALEICHTHYS
LONGFIN SMELT
THALEICHTHYS PACIFICUS
EULACHON OR COLUMBIA RIVER SMELT

TROPHIC LEVEL (9) INVERTEBRATE
EATER - BIRDS

AYTHIA MARILA
GREATER SCAUP

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

ACARTIA CLAUDI
COPEPOD
ACARTIA DANAE
COPEPOD
ACARTIA LONGERIMIS
COPEPOD
ACARTIA NEGLIGENS
COPEPOD
AEGISTHUS MUCRONATUS HARPACTIC
COPEPOD
AETIDEOPSIS PACIFICA
COPEPOD
AETIDEUS ARMATUS
COPEPOD
AETIDEUS PACIFICUS
COPEPOD
AMALLOTHRIX VALIDA
COPEPOD
AMALLOTHRIX VORAK
COPEPOD
ARIETELLUS PLUMIFER
COPEPOD
BATHYCALANUS BRADYI
COPEPOD
BOREOMYSIS
COPEPOD
BOREOMYSIS ROSTRATA
COPEPOD
CALANUS CRISTATUS
COPEPOD
CALANUS FINMARCHICUS
COPEPOD
CALANUS PLUMCHRUS
COPEPOD
CALANUS TENUICORNIS
COPEPOD
CALOCALANUS STYLIREMIS
COPEPOD
CANDACIA BIPINNATA
COPEPOD
CAVOLINA UNCINATA
PTEROPOD
CENTRAUGAPTILUS PORCELLUS
COPEPOD
CENTROPAGES MCMURRICHII
COPEPOD
CHIRUNDINA STREETSII
COPEPOD
CLAUSOCALANUS ARCUICORNIS
COPEPOD
CLAUSOCALANUS PERGENS
COPEPOD
CLIO BALANTIUM
PTEROPOD
CLIONE LIMOCINA
PTEROPOD
COROLLA SPECTABILIS
PTEROPOD
CORYCHAEUS
COPEPOD
CTENOCALANUS VANUS
COPEPOD

EPILABIDOCERA AMPHITRITES
COPEPOD
EUCALANUS ATTENUATUS
COPEPOD
EUCALANUS BUNGII
COPEPOD
EUCHAETA SPINOSA
COPEPOD
EUCHIRELLA CURTICAUDA
COPEPOD
EUCOPIA
COPEPOD
EVADNE NORMANNI
CLADOCERAN
GAETANUS SECUNDUS
COPEPOD
GAETANUS SIMPLEX
COPEPOD
GAIIDIUS BREVISPINUS
COPEPOD
GAIIDIUS VARIABILIS
COPEPOD
GAUSSIA PRINCEPS
COPEPOD
GIGANTOCYPRIS AGASSIZII
OSTRACOD
GNATHOPHAUSIA GIGAS
COPEPOD
GNATHOPHAUSIA INGENS
COPEPOD
HALOPTILUS PSEUDOOXYCEPHALUS
COPEPOD
HETERORHABDUS TANNERI
COPEPOD
HETEROSTYLITES LONGICORNIS
COPEPOD
HETEROSTYLITES MAJOR
COPEPOD
LUCICUTIA BICORNUTA
COPEPOD
LUCICUTIA FLAVICORNIS
COPEPOD
METRIDEA LULCENS
COPEPOD
METRIDIA CURTICAUDA
COPEPOD
MICROCALANUS PYGMAEUS
COPEPOD
MICROSETELLA
COPEPOD
MIXTOCALANUS ROBUSTUS
COPEPOD
OITHONA
COPEPOD
ONCAEA CONIFERA
COPEPOD
PARACALANUS PARVUS
COPEPOD
PAREUCHAETA BIROSTRATA
COPEPOD
PAREUCHAETA JAPONICA
COPEPOD
PHAENNA SPINIFERA
COPEPOD
PLEUROMANNA BOREALIS
COPEPOD
PLEUROMANNA SCUTULLATA
COPEPOD
PODOM LEUCKARTI
CLADOCERAN

HABITAT: DISPHOTIC PELAGIC

PSEUDOCALANUS MINUTHUS
COPEPOD
PSEUDOCHIRELLA POLYSPINA
COPEPOD
RACOVITZANUS FORRECTA
COPEPOD
RACOVITZANUS PACIFICUS
COPEPOD
RHINCALANUS NASUTUS
COPEPOD
SCAPHOCALANUS MEDIUS
COPEPOD
SCAPHOCALANUS MINUTUS
COPEPOD
SCAPHOCALANUS SUBELONGATUS
COPEPOD
SCOLECITHRICELLA MINOR
COPEPOD
SCOTTOCALANUS SEDATUS
COPEPOD
TORTANIS DISCAUDATUS
COPEPOD
UNDEUCHAETA INTERMEDIA
COPEPOD
UNDEUCHAETA MAJOR
COPEPOD
UNDEUCHAETA PLUMOSA
COPEPOD

TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES

ABRALIOPSIS FELIS
SQUID
AEGINA CITREA
JELLYFISH
AEGINURA GRIMALDII
JELLYFISH
AEQUOREA
JELLYFISH
AGLANTHA DIGITALE
JELLYFISH
ATOLLA VANHOEFFENI
JELLYFISH
ATOLLA WYVILLEI
JELLYFISH
AURELIA LABIATA
JELLYFISH
BARGMANNIA
JELLYFISH
BEROE CUCUMIS
COMB JELLY
BOTRYNEMA BRUCEI
JELLYFISH
CALYOPSIS NAMATOPHORA
CARANARIA JAPONICA
HETEROPOD
CHELOPHYES APPENDICULATA
JELLYFISH
CHELOPHYES MULTIDENTATA
JELLYFISH
CHIOTEUTHIS VERANYI
SQUID
CHUNIPHYES MOSERAE
JELLYFISH
COLOBONEMA SERVICEUM
JELLYFISH
CRANCHIA SCABRA
SQUID
CROSSOTA ALBA

JELLYFISH
CROSSOTA PEDUNCULATA
JELLYFISH
CROSSOTA RUFOBUNNEA
JELLYFISH
CUNINA OCTONARIA
JELLYFISH
CYANEA
JELLYFISH
EUPHYSORA FURCATA
JELLYFISH
EUTONIA INDICANS
JELLYFISH
GALITEUTHIS ARMATA
SQUID
GONATOPSIS BOREALIS
SQUID
GONATUS ANONYCHUS
SQUID
GONATUS FABRICII
SQUID
GONATUS MAGISTER
SQUID
HALICREAS MINIMUM
JELLYFISH
HALISTAURA CELLULARIA
JELLYFISH
HISTIOEUTHIS HETEROPSIS
SQUID
JAPETELLA HEATHI
OCTOPUS
LENSIA CONOIDEA
JELLYFISH
LIMACINA HELACINA
PTEROPOD
LOLIGO OPALESCENS
SQUID
MOROTEUTHIS ROBUSTA
SQUID
MUGGIAEA ATLANTICA
JELLYFISH
NANOMIA CARA
JELLYFISH
OCTOPOEUTHIS SICULA
SQUID
OCTOPUS
ONYCHOTEUTHIS BANKSI
SQUID
PANTACHOGON HAECKELI
JELLYFISH
PARAPHYLLINA RANSONI
JELLYFISH
PERIPHYLLA PERIPHYLLA
JELLYFISH
PHYSOPHORA HYDROSTATICA
JELLYFISH
PLEUROBRACHIA PILEUS
COMB JELLY
PRAYA DUBIA
JELLYFISH
PRAYA RETICULATA
JELLYFISH
PTEROTRACHEA SCUTUTA
HETEROPOD
ROSSIA PACIFICA
SQUID
SARSIA PRINCEPS
JELLYFISH
SARSIA TUBULOSA

JELLYFISH
SOLMISSUS INCISA
JELLYFISH
SOLMISSUS MARSHALLI
JELLYFISH
SULCULEOLARIA QUADRIVALIS
JELLYFISH
TAONIUS PAVO
SQUID
VAMPYROTEUTHIS INFERNALIS
SQUID
VOGTIA SPINOSA
JELLYFISH

TROPHIC LEVEL: (3) CARNIVORE
FISHES

ALOPTIAS VULPINUS
THRESHER SHARK
ANOPLOPOMA FIMBRIA
SABLEFISH
CHAULIODUS MACOUNI
PACIFIC VIPERFISH
CORYPHAENOIDES ACROLEPIS
ROUGHSCALE RATTAII
EPTATRETUS DEANI
BLACK HAGFISH
EPTATRETUS STOUTI
PACIFIC HAGFISH
GALEORHINUS ZYOPTERUS
SOUPFIN SHARK
HEXANCHUS GRISEUS
SIXGILL SHARK
HYDROLAGUS COLLIEI
RATFISH
LAMNA DITROPIS
SALMON SHARK
MERLUCCIOUS PRODUCTUS
PACIFIC HAKE
NOTORYNCHUS MACULATUS
SPOTTED COWSHARK OR SEVENGILL
ONCORHYNCHUS GORBUSCHA
PINK SALMON
ONCORHYNCHUS KETA
CHUM SALMON
ONCORHYNCHUS KISUTCH
COHO SALMON
ONCORHYNCHUS TSHAWYTSCHA
CHINOOK SALMON
PORICHTHYS NOTATUS
PLAINFIN MIDSHIPMEN
PRIONACE GLAUCA
BLUE SHARK
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SALMO CLARKI
CUTTHROAT TROUT
SALMO GAIRDNERI
STEELHEAD TROUT
SALVELINUS MALMA
DOLLY VARDEN
SEBASTES ALUTUS
PACIFIC OCEAN PERCH
SEBASTES CRAMERI
BLACKMOUTH ROCKFISH OR
DARKBLOOD

HABITAT: DISPHOTIC PELAGIC

SEBASTES DIPLOPROA
SPLITNOSE ROCKFISH
SEBASTES ELONGATUS
GREENSTRIPED ROCKFISH
SEBASTES FLAVIDUS
YELLOWTAIL ROCKFISH
SEBASTES PINNIGER
CANARY ROCKFISH
SEBASTOLOBUS ALASCANUS
SHORTSPINE ROCKFISH
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH
TACTOSTOMA MACROPIUS
LONGFIN DRAGONFISH
THERAGRA CHALCOGRAMMA
WALLEYE POLLOCK
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY
TRIAKIS SEMIFASCIATA
LEOPARD SHARK

TROPHIC LEVEL: (3) CARNIVORE MAMMALS

BERARDIUS BAIRDI
BAIRD'S BEAKED WHALE
CALLORHINUS URSINUS
NORTHERN FUR SEAL
KOGIA BREVICEPS
PYGMY SPERM WHALE
LISSODELPHIS BOREALIS
NORTHERN RIGHT WHALE DOLPHIN
MESOPLODON STEJNEGERI
STEJNEGER'S BEAKED WHALE
ORCINUS ORCA
KILLER WHALE
PHOCOENA PHOCOENA
HARBOR PORPOISE
RHOCOENOIDES DALLI
DALL PORPOISE
PHYSETER CATODON
SPERM WHALE
STENELLA COERULEOALBA
STRIPED DOLPHIN/GRAY'S PORPOISE
ZIPHEUS CAVIROSTRIS
CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES

BENTHEOPAUSIA AMBLYOPS
EUPHASID
EUPHAUSIA PACIFICA
EUPHASID
NEMATOBRACHION FLEXIPES
EUPHASID
NEMATOCELIS DIFFICILIS
EUPHASID
STYLOCHEIRON ABBREVIATUM
EUPHASID
STYLOCHEIRON LONGICORNE
EUPHASID
STYLOCHEIRON MAXIMUM
EUPHASID
TESSARABRACHION OCVLATUS
EUPHASID
THYANOESSA GREGARIA
EUPHASID

THYANOESSA INSPINATA
EUPHASID
THYANOESSA LONGIPES
EUPHASID
THYANOESSA PARVA
EUPHASID
THYANOESSA RASCHII
EUPHASID
THYANOESSA SPINIFERA EUPHASID
THYSANOPODA ACUTIFRONS
EUPHASID
THYSANOPODA CORNUTA
EUPHASID
THYSANOPODA EGREGIA
EUPHASID

TROPHIC LEVEL: (5) OMNIVORE FISHES

SARDINOPS SAGAX
PACIFIC SARDINE

TROPHIC LEVEL: (6) PARASITE FISHES

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY
LAMPETRA AYREST
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES

DOLIOLUM
SALP
HELIOSCALPA VIRGULA
SALP
IASIS ZONARIA
SALP
OIKOPLEURA
LARVACEAN
PEGEA CONFOEDERATA
SALP
SALPA FUSIFORMIS
SALP
THALIA DEMOCRATICA
SALP
THETYS VAGINA
SALP

TROPHIC LEVEL: (9) INVERTEBRATE EATER - INVERTEBRATES

ACANTHEPHYRA CURTIROSTRIS
SHRIMP
BENTHEOGENNEMA
SHRIMP
BENTHEOGENNEMA BOREALIS
SHRIMP
CYSTISOMA FABRICII
AMPHIPOD
DAIRELLA CALIFORNICA
AMPHIPOD
EUKROHNIA BATHYPELAGICA
ARROW-WORM
EUKROHNIA FOWLERI
ARROW-WORM
EUKROHNIA HAMATA
ARROW-WORM
GENNADAS INCERTUS

SHRIMP
GENNADAS PROPINQUUS
SHRIMP
HYMENODORA FRONTALIS
SHRIMP
HYMENODORA GLACIALIS
SHRIMP
HYMENODORA GRACILIS
SHRIMP
HYPERIA HYSTRIX
AMPHIPOD
HYPEROCHE DEDUSARUM
AMPHIPOD
LANCEOLA LOVENI
AMPHIPOD
LYCAEA PULEX
AMPHIPOD
MENINGODORA MOLLIS
SHRIMP
NINOE GEMMA
POLYCHAETE WORM
NOTOSTOMUS JAPONICUS
SHRIMP
OXYCEPHALUS CLAUSI
AMPHIPOD
PANDALUS JORDANI
OCEAN PINK SHRIMP
PARAPASIPHAE CRISTATA
SHRIMP
PARAPASIPHAE SUICATIFRONS
SHRIMP
PARAPHRONIMA CRASSIPES
AMPHIPOD
PARAPHRONIMA GRACILIS
AMPHIPOD
PARATHERMISTO PACIFICA
AMPHIPOD
PASIPHAEA CHACEI
SHRIMP
PASIPHAEA MAGNA
SHRIMP
PASIPHAEA PACIFICA
SHRIMP
PETALIDIUM SUSPIRIOSUM
SHRIMP
PHRONIMA SEDENTARIA
AMPHIPOD
PHRONIMOPSIS SPINIFERA
AMPHIPOD
POEOBIUS MESERES
POLYCHAETE WORM
PRIMNO ABYSSALIS
AMPHIPOD
PRIMNO MACROPA
AMPHIPOD
RHYNCHONEREELLA ANGELINI
POLYCHAETE WORM
SAGITTA BIERII
ARROW-WORM
SAGITTA DECIPIENS
ARROW-WORM
SAGITTA ELEGANS
ARROW-WORM
SAGITTA EUNERITICA
ARROW-WORM
SAGITTA MACROCEPHALA
ARROW-WORM
SAGITTA MAXIMA
ARROW-WORM
SAGITTA MINIMA

HABITAT: DISPHOTIC PELAGIC

ARROW-WORM
 SAGITTA SCRIPPSAE
 ARROW-WORM
 SAGITTA ZETESIOS
 ARROW-WORM
 SCINA CRASSICORNIS BURMUDENSIS
 AMPHIPOD
 SERGESTES SIMILIS
 SHRIMP
 SERGIA TENUIREMIS
 SHRIMP
 STREETSIA CHALLENGERI
 AMPHIPOD
 SYSTELLASPIS BRAUERI
 SHRIMP
 SYSTELLASPIS CRISTATA
 SHRIMP
 TOMOPTERIS CAVALLII
 POLYCHAETE WORM
 TOMOPTERIS NISSENI
 POLYCHAETE WORM
 TOMOPTERIS PACIFICA
 POLYCHAETE WORM
 TRYPHANA MALMI
 AMPHIPOD
 VIBILIA ARMATA
 AMPHIPOD
 VIBILIA PROQUINQUA
 AMPHIPOD
 VIBILIA WOLTERECKI
 AMPHIPOD

TROPHIC LEVEL: (9) INVERTEBRATE
 EATER - FISHES

ALLOSMERUS ELONGATUS
 WHITEBAIT SMELT
 ALOSA SAPIDISSIMA
 AMERICAN SHAD
 ATHERINOPS AFFINIS
 TOPSMELT
 CERATOSCOPELUS TOWNSENDI
 DOGTOOTH LAMPFISH
 CETORHINUS MAXIMUS
 BASKING SHARK
 CLUPEA HARENGUS PALLASI
 PACIFIC HERRING
 COLLABIS SAIRA
 PACIFIC SAURY
 DIAPHUS THETA
 CALIFORNIA HEADLIGHTFISH
 ENGRAULIS MORDAX
 NORTHERN ANCHOVY
 ONCORHYNCHUS NERKA
 SOCKEYE SALMON
 SPIRINCHUS STARKSI
 NIGHT SURF SMELT
 SPIRINCHUS THALEICHTHYS
 LONGFIN SMELT
 STENOBRACHIUS LEUCOPSARUS
 NORTHERN LAMPFISH
 TARLETONBEANIA CRENUULARIS
 BLUE LANTERNFISH
 THALEICHTHYS PACIFICUS
 EULACHON OR COLUMBIA R. SMELT

TROPHIC LEVEL: (2) HERBIVORE
 INVERTEBRATES

ACMAEA MITRA
 DUNCECAP LIMPET
 STRONGYLOCENTROTUS FRANSCANU
 GIANT RED URCHIN
 STRONGYLOCENTROTUS PURPURATUS
 PURPLE SEA URCHIN

TROPHIC LEVEL: (3) CARNIVORE
 INVERTEBRATES

ACMAEA LIMATULA
 FILE LIMPET
 ANTIPLANES ABARBAREA
 SNAIL
 ANTIPLANES PERVERSA
 SNAIL
 ANTIPLANES VINOSA
 SNAIL
 ARCHIDORIS MONTEREYENSIS
 MUDIBRANCH
 ARMINA CALIFORNICA
 MUDIBRANCH
 ASTROPECTIN ARMATUS
 SAND STAR
 BENTHOCTOPUS
 OCTOPUS
 BORETROPHON STUARTI
 SNAIL
 BUCCINUM STRIGILLATUM
 SNAIL
 CALLIOSTOMA ANNULATUM
 SNAIL
 CHIONECTES BAIRDI
 TANNER CRAB
 CHIONECTES OPILIO
 TANNER CRAB
 CHIONECTES TANNERI
 TANNER CRAB
 COLUS ROSEUS
 SNAIL
 COLUS SERVINUS
 SNAIL
 CROSSASTER PAPOSUS
 ROSE STAR
 DENTALIUM
 TOOTH SNAIL
 DERMASTERIAS IMBRICATA
 LEATHER STAR
 EPITONIUM INDIANORUM
 SNAIL
 FUSITRITON OREGONENSIS
 OREGON TRITON
 HENRICIA LEVISCULA
 BLOOD STAR
 ISCHNOCHITON
 CHITON
 LEPIDAZONA
 CHITON
 LEPIDAZONA GOLISCHI
 CHITON
 LEPTOCHITON
 CHITON

LISCHKIA CIDARIS
 SNAIL
 LUIDIA FOLIATA
 SAND STAR
 METRIDIDIUM FIMBRIATUM
 SEA ANEMONE
 MITRELLA GOULDI
 SNAIL
 HASSARIUS FOSSATUS
 SNAIL
 HASSARIUS MENDICUS
 SNAIL
 NEPTUNEA LYRATA
 SNAIL
 OCTOPUS DOLFEINI
 OCTOPUS
 PISASTER BREVISPINOUS
 SHORT-SPINED PISASTER
 PISASTER GIGANTEUS
 GIANT STAR
 PISASTER OCHRACEOUS
 PURPLE STAR
 POLYPUS
 OCTOPUS
 PTERASTER TESSELLATUS ARCUATUS
 SLIME STAR
 PUNCTURELLA CUCULATA
 LIMPET
 PYCNOPODIA HELIANTHOIDES
 SUNFLOWER STAR
 ROSSIA PACIFICA
 SQUID
 SCYRA ACUTIFRONS
 MASKING CRAB
 SOLASTER DAWSONI
 MORNING SUN STAR
 SOLASTER STIMPSONI
 SUN STAR
 STYLASTERIAL FORRERI
 SEA STAR
 TACHYRHYNCHUS LACTEOLUM
 SNAIL
 TACHYRHYNCHUS PRATOMUM
 SNAIL
 TROPHON TRIPHERUS
 SNAIL

TROPHIC LEVEL: (3) CARNIVORE
 FISHES

ANARRHICHTHYS OCELLATUS
 WOLF EEL
 DASYCOTTUS SETIGER
 SPINYHEAD SCULPIN
 EPTATRETUS DEANI
 BLACK HAGFISH
 EPTATRETUS STOUTI
 PACIFIC HAGFISH
 HEXAGRAMMOS DECAGRAMMUS
 KELP GREENLING
 HEXAGRAMMOS STELLERI
 WHITESPOTTED GREENLING
 HEXANCHUS GRISEUS
 SIXGILL SHARK
 HYDROLAGUS COLLIEI
 RATFISH
 ICELINUS FILAMENTOSUS
 THREADFIN SCULPIN
 OPHIODON ELONGATUS
 LINGCOD

HABITAT: ROCKY NON-VEGETATED BENTHIC

RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SEBASTES CAURINUS
COPPER ROCKFISH
SEBASTES MALIGER
QUILLBACK ROCKFISH
SEBASTES MYSTINUS
BLUE ROCKFISH
SEBASTES RUBERRIMUS
YELLOW EYE ROCKFISH
SEBASTODES MELANOPS
BLACK SEABASS
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH

TROPHIC LEVEL: (3) CARNIVORE MAMMALS

EUMETOPIAS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
MESOPLODON STEJNEGERI
STEJNEGER'S BEAKED WHALE
PHOCA VITULINA
HARBOR SEAL
PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATODON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION
ZIPHEUS CAVIROSTRIS
CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (4) DETRITIVORE INVERTEBRATES

ALLOCENTROTUS FRAGILIS
SEA URCHIN
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
STRONGYLOCENTROTUS ECHINOIDES
SEA URCHIN
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
OENOPOTA
SNAIL

ONCOSOECIA
BRYOZOAN
PSEUDARCHASTER PARELLI ALASCEN
SEA STAR

TROPHIC LEVEL: (6) PARASITE FISHES

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY
LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM
BALANUS CREMATUS
BARNACLE
BALANUS HESPERIUS
BARNACLE
BEGULA FLABELLATA
BRYOZOAN
CABEREA ELLISI
BRYOZOAN
CALLAPORA CORNICULIFERA
BRYOZOAN
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CELLARIA DIFFUSA
BRYOZOAN
CELLARIA MANDIBULATA
BRYOZOAN
CHLAMYS HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYS HINDSI
HIND'S SCALLOP
CLINOCARDIUM MUTALLI
BASKET COCKLE
HALOCYNTHIA IGABOJA
SEA SQUIRT
LAGENIPORA PUNCTULATA
BRYOZOAN
LAQUEUS CALIFORNICUS
LAMP SHELL
MYRIOZOUM COARCTATUM
BRYOZOAN
MYRIOZOUM TENUE
BRYOZOAN
NEMOCARDIUM CENTRIFILOSUM
HUNDRED-LINED COCKLE
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTOHACA STAMINEA
ROCK COCKLE
SCALPELLUM
BARNACLE
SOLEMYA AGASSIZI
AWNING CLAM
TEREBRATALIA TRANSVERSA
LAMP SHELL
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM
YOLDIA LIMATULA GAIRDERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER INVERTEBRATES

CANCER MAGISTER
DUNGENESS CRAB
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB
PHYLLLOLITHOIDES PAPILLOSUS
PAPILLA CRAB

TROPHIC LEVEL: (9) INVERTEBRATE EATER - INVERTEBRATES

ARCTONOE PULCHRA
POLYCHAETE
BALANOPHYLLA ELEGANS
STONY CORAL
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
DAIRELLA CALIFORNICA
AMPHIPOD
ENIPO GRACILIS
POLYCHAETE
HAPLOSCOLOPOUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS DANAE
DOCK SHRIMP
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PARAGORGIA ARBOREA
SOFT CORAL
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

TROPHIC LEVEL: (9) INVERTEBRATE EATER - FISHES

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
LEPIDOPSETTA BILINEATA
ROCK SOLE
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN

HABITAT: ROCKY NON-VEGETATED BENTHIC

RADULINUS ASPRELLUS
SLIM SCULPIN

**TROPHIC LEVEL (-)
INVERTEBRATES**

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

**TROPHIC LEVEL: (0)
INVERTEBRATES**

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
ALLOPORA VERRILLI
HYDROCORAL
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPPIASTERIA SPINOSA
SEA STAR
LAFOEA ADNATA
HYDROID
LAFOEA DUMOSA
HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
PUGETTIA ARACILLIS
KELP CRAB
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACHAEA MITRA
DUNCECAP LIMPET

**TROPHIC LEVEL: (2) HERBIVORE
FISHES**

ASTEROTHECA PENTACANTHUS
BIGEYE POACHER

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACHAEA LIMATULA
FILE LIMPET
ANTIPLANES ABARBAREA
SNAIL
ANTIPLANES PERVERSA
SNAIL
ANTIPLANES VINOSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BENTHOCTOPUS
OCTOPUS
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CADULUS STEARNSII
TOOTH SHELL
CALLIOSTOMA ANNULATUM
SNAIL
CHIONECTES BAIRDI
TANNER CRAB
CHIONECTES OPILIO
TANNER CRAB
CHIONECTES TANNERI
TANNER CRAB
COLUS ROSEUS
SNAIL
COLUS SERVINUS
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DENTALIUM
TOOTH SHELL
DERMASTERIAS IMBRICATA
LEATHER STAR
EPITONIUM INDIANCRUM
SNAIL
FUSITRITION OREGONENSIS
OREGON TRITON
HENRICIA LEVISCULA
BLOOD STAR
ISCHNOCHITON
CHITON
LEPIDAZONA
CHITON
LEPIDAZONA GOLISCHI
CHITON
LEPTOCHITON
CHITON

LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
METRIDIDIUM FIMBRIATUM
SEA ANEMONE
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
NATICA CLAUSA
SNAIL
NEPTUNEA LYRATA
SNAIL
OCTOPUS DOLFEINI
OCTOPUS
PISASTER BREVISPINOUS
SHORT-SPINED PISASTER
PISASTER GIANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
POLINICES LEWISII
MOON SNAIL
POLINICES PALLIDUS
MOON SNAIL
POLYPUS
OCTOPUS
PTERASTER TESSELLATUS ARCUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSSIA PACIFICA
SQUID
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUN STAR
STYLASTERIAL FORRERI
SEA STAR
TACHYRHYNCHUS LACTEOLUM
SNAIL
TACHYRHYNCHUS PRATOMUM
SNAIL
THRASSACANTHIAS PENCILATUS
SEA STAR
TROPHON TRIPHERUS
SNAIL

**TROPHIC LEVEL: (3) CARNIVORE
FISHES**

ANOPLOPOMA FIMBRIA
SABLEFISH
ATHERESTHES STOMIAS
TURBOT OR ARROWTOOTH FLOUNDER
BROSOPHYCIS MARGINATA
RED BROTLA
CHITONOTUS PUGETENSIS
ROUGHBACK SCULPIN
CITHARICHTHYS SORDIDUS
PACIFIC SANDDAB
DASYCOTTUS SETIGER
SPINYHEAD SCULPIN
DELOLEPIS GIGANTEA
GIANT WRYMOUTH

HABITAT: MUD NON-VEGETATED BENTHIC

EOPSETTA JORDANI
 PETRALE SOLE
 EPTATRETUS DEANI
 BLACK HAGFISH
 EPTATRETUS STOUTI
 PACIFIC HAGFISH
 GADUS MACROCEPHALUS
 PACIFIC COD
 GLYPTOCEPHALUS ZACHIRUS
 REX SOLE
 HEXAGRAMMOS DECAGRAMMUS
 KELP GREENLING
 HEXAGRAMMOS STELLERI
 WHITESPOTTED GREENLING
 HEXANCHUS GRISEUS
 SIXGILL SHARK
 HIPPOGLOSSOIDES ELASSODON
 FLATHEAD SOLE
 HIPPOGLOSSUS STENCLEPIS
 PACIFIC HALIBUT
 HYDROLAGUS COLLIEI
 RATFISH
 ICELINUS FILAMENTOSUS
 THREADFIN SCULPIN
 ISOPSETTA ISOLEPIS
 BUTTER SOLE
 LYCODOPSIS PACIFICA
 BALCKBELLY EELPOUT
 LYOPSETTA EXILIS
 SLENDER SOLE
 MICROSTOMUS PACIFICUS
 DOVER SOLE
 OPHIODON ELONGATUS
 LINGCOD
 PAROPHRYS VETULUS
 ENGLISH SOLE
 PLATICHTHYS STELLATUS
 STARRY FLOUNDER
 PORICHTHYS NOTATUS
 PLAINFIN MIDSHIPMEN
 PSETTICHTHYS MELANOSTICTUS
 SAND SOLE
 RAJA BINOCULATA
 BIG SKATE
 RAJA KINCAIDI
 BLACK SKATE
 RAJA RHINA
 LONGNOSE SKATE
 RAJA STELLULATA
 STARRY SKATE
 SCORPAENICHTHYS MARMORATUS
 CABEZON
 SEBASTES CAURINUS
 COPPER ROCKFISH
 SOMNIOSUS PACIFICUS
 PACIFIC SLEEPER SHARK
 SQUALUS ACANTHIAS
 SPINY DOGFISH
 TORPEDO CALIFORNICA
 PACIFIC ELECTRIC RAY

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

EUMETOPIAS JUBATUS
 NORTHERN OR STELLAR SEA LION
 KOGIA BREVICEPS
 PYGMY SPERM WHALE
 PHOCA VITULINA
 HARBOR SEAL

PHOCOENA PHOCOENA
 HARBOR PORPOISE
 PHYSETER CATODON
 SPERM WHALE
 ZALOPHUS CALIFORNIANUS
 CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ALLOCENTROTUS FRAGILIS
 SEA URCHIN
 AMPHIOPUS STRONGYLOPLAX
 BRITTLE STAR
 APIURA SARSII
 BRITTLE STAR
 BANKIA SETACEA
 TEREDO
 BRISASTER LATIFRONS
 SEA URCHIN
 LEPTOSYNAPTA
 SEA CUCUMBER
 LISTRILOBUS HEXAMYOTUS
 ECHIURID WORM
 LOPHOLITHOIDES FORAMINATUS
 BOX CRAB
 LOPHOLITHOIDES MANDTII
 PUGET SOUND KING CRAB
 LUMBRINERIS BICIRRATA
 POLYCHAETE
 LUMBRINERIS SIMILABRIS
 POLYCHAETE
 MACOMA ALCAREA
 CHALKY CLAM
 MAGELONA JAPONICA
 POLYCHAETE
 MOLPADIA INTERMEDIA
 SEA CUCUMBER
 OPHIOPHOLIS BAKERI
 BRITTLE STAR
 OPHIURA LUTKENI
 BRITTLE STAR
 PARASTICHOPUS CALIFORNICUS
 GIANT RED SEA CUCUMBER
 PENTAMERA PSEUDOCALCIGERA
 SEA CUCUMBER
 TELLINA BUTTONI
 BUTTON'S TELLIN CLAM
 XYLOPHAGA WASHINGTONA
 WASHINGTON WOOD-EATER

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

AMPHISSA VERSICOLOR
 SNAIL
 GORGONOCEPHALUS CARYI
 BASKET STAR
 OENOPOTA
 SNAIL
 PSEUDARCHASTER PARELII ALASCEN
 SEA STAR

TROPHIC LEVEL: (6) PARASITE
FISHES

ENTOSPHEMUS TRIDENTATUS
 PACIFIC LAMPREY
 LAMPETRA AYRESI
 RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ACILIA CASTRENSIS
 DIVARICATE NUT CLAM
 AXINOPSIDA SERICATA
 CLAM
 CARDIOMYA OLDROYDI
 CUSPIDARIA CLAM
 CARDIOMYA PLANETICA
 CLAM
 CARDITA STEARNSII
 CLAM
 CARDITA VENTICOSA
 CLAM
 CHLAMYS HASTATUS HERICUS
 PACIFIC PEAR SCALLOP
 CHLAMYS HINDSI
 HIND'S CLAM
 CLINOCARDIUM NUTALLI
 BASKET COCKLE
 COMPSOMYAX SUBDIAPHANA
 CLAM
 CRENELLA COLUMBIANA
 CLAM
 EUPLEXAURA MARKI
 SEA PEN
 HUXLEYIA MUNITA
 CLAM
 LIEOPTULUS QUADRANGULARIS
 SEA PEN
 LYONSIA STRIATA
 CLAM
 NEMOCARDIUM CENTRIFILOSUM
 HUNDRED-LINED COCKLE
 NUCULA TENUIS
 CLAM
 NUCULANA AUSTINI
 CLAM
 NUCULANA PERNULS
 CLAM
 PATINOPECTIN CAURINUS
 WEATHERVANE SCALLOP
 PECTEN CAURINUS
 GIANT PACIFIC SCALLOP
 PROTOTHACA STAMINEA
 ROCK COCKLE
 PSEPHIDIA LORDI
 CLAM
 SAXICAVA ARCTICA
 ARCTIC SAXICLAVE CLAM
 SCLEROPTILUM
 SEA PEN
 SOLEMYA AGASSIZI
 AWNING CLAM
 STYLATULA ELONGATA
 SEA PEN
 THRACIA CURTA
 CLAM
 THRACIA TRAPEZOIDES
 CLAM
 THYASIRA BARBARENSIS
 CLAM
 VENERICARDIA VENTRICOSA
 STOUT CARDITA CLAM
 YOLDIA LIMATULA GAIRDERI
 FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

HABITAT: MUD NON-VEGETATED BENTHIC

CANCER MAGISTER
DUNGENESS CRAB
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

APHRODITE JAPONICA
POLYCHAETE
ARCTONOE PULCHRA
POLYCHAETE
CARINOMELLA LACTEA
RIBBON WORM
CEREBRATULUS CALIFORNIENSIS
RIBBON WORM
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
ENIPO GRACILIS
POLYCHAETE
GLYCERA AMERICANA
POLYCHAETE
HAPLOSCOLOPUUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CACOIDES
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS CORNUTA
POLYCHAETE
NEPHTYS FERRUGINEA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
AGONUS ACIPENSERINUS
STURGEON POACHER

CLUPEA HARENGUS PALLASI
PACIFIC HERRING
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS PULCHELLUS
SHOWY SNAILFISH
LUMPENUS SAGITTA
SNAKE PRICKLEBACK
LYCONECTES ALEUTENSIS
DWARF WRYMOUTH
MICROGADUS PROXIMUS
PACIFIC TOMCOD
POROCLINIS ROTHROCKI
WHITEBARRED BLENNY
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
RADULINUS ASPRELLUS
SLIM SCULPIN
XENERETMUS LATIFRONS
BLACKTIP POACHER

TROPHIC LEVEL: (-)
INVERTEBRATES

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

TROPHIC LEVEL: (Q)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPASTERIA SPINOSA
SEA STAR
LAFOEA ADNATA
HYDROID
LAFOEA DUMOSA
HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIATER AEQUALIS
VERMILLON STAR

NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
RATHBUNASTER CALIFORNICUS
SEA STAR
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

TROPHIC LEVEL: (Q)
FISHES

PLEURONICHTHYS COENOSUS
C-O SOLE

HABITAT: MUD NON-VEGETATED BENTHIC

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACHAEA MITRA
DUNCECAP LIMPET

**TROPHIC LEVEL: (2) HERBIVORE
FISHES**

ASTEROTHECA PENTACANTHUS
BIGEYE POACHER

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACHAEA LIMATULA
FILE LIMPET
ANTIPLANES ABARBAREA
SNAIL
ANTIPLANES PERVERSA
SNAIL
ANTIPLANES VINOSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BENTHOCTOPUS
OCTOPUS
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CADULUS STEARNSII
TOOTH SHELL
CALLIOSTOMA ANNULATUM
SNAIL
CHIONECTES BAIRDI
TANNER CRAB
CHIONECTES OPILIO
TANNER CRAB
CHIONECTES TANNERI
TANNER CRAB
COLUS ROSEUS
SNAIL
COLUS SERVINUS
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DENTALIUM
TOOTH SHELL
DERMASTERIAS IMBRICATA
LEATHER STAR
EPITONIUM INDIANORUM
SNAIL
FUSITRITION OREGONENSIS
OREGON TRITON
HENRICIA LEVISCULA
BLOOD STAR
ISCHNOCHITON
CHITON
LEPIDAZONA
CHITON
LEPIDAZONA GOLISCHI
CHITON
LEPTOCHITON
CHITON

HABITAT: MUDDY SAND NON-VEGETATED BENTHIC

LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
METRIDIVM FIMBRIATUM
SEA ANEMONE
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
NATICA CLAUSA
SNAIL
NEPTUNEA LYRATA
SNAIL
OCTOPUS DOLFEINI
OCTOPUS
PISASTER BREVISPINOSUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
POLINICES LEWISII
MOON SNAIL
POLINICES PALLIDUS
MOON SNAIL
POLYPUS
OCTOPUS
PTERASTER TESSELLATUS ARCUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSSIA PACIFICA
SQUID
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUN STAR
STYLASTERIAL FORRERI
SEA STAR
TACHYRHYNCHUS LACTEOLUM
SNAIL
TACHYRHYNCHUS PRATOMUM
SNAIL
THRASSACANTHIAS PENCILATUS
SEA STAR
TRITONIA
NUDIBRANCH
TROPIDION TRIPHERUS
SNAIL

TROPHIC LEVEL: (3) CARNIVORE
FISHES

ACIPENSER TRANSMONTANUS
WHITE STURGEON
ATHERESTHES STOMIAS
TURBOT OR ARROWTOOTH FLOUNDER
CHITONOTUS PUGETENSIS
ROUGHBACK SCULPIN
CITHARICHTHYS SORDIDUS
PACIFIC SANDDAB
CITHARICHTHYS STIGMAEUS
SPECKLED SANDDAB
DASYCOTTUS SETIGER
SPINYHEAD SCULPIN

DELOLEPIS GIGANTEA
GIANT WRYMOUTH
EOPSETTA JORDANI
PETRALE SOLE
EPTATRETUS DEANI
BLACK HAGFISH
EPTATRETUS STOUTI
PACIFIC HAGFISH
GADUS MACROCEPHALUS
PACIFIC COD
GLYPTOCEPHALUS ZACHIRUS
REX SOLE
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS STELLERI
WHITESPOTTED GREENLING
HEXANCHUS GRISEUS
SIXGILL SHARK
HIPPOGLOSSOIDES ELASSODON
FLATHEAD SOLE
HIPPOGLOSSUS STENCLEPIS
PACIFIC HALIBUT
HYDROLAGUS COLLIEI
RATFISH
ICELINUS FILAMENTOSUS
THREADFIN SCULPIN
ISOPSETTA ISOLEPIS
BUTTER SOLE
LYOPSETTA EXILIS
SLENDER SOLE
MICROSTOMUS PACIFICUS
DOVER SOLE
OPHIODON ELONGATUS
LINGCOD
PAROPHRYUS VETULUS
ENGLISH SOLE
PLATICHTHYS STELLATUS
STARRY FLOUNDER
PORICHTHYS NOTATUS
PLAINFIN MIDSHIPMEN
PSETTICHTHYS MELANOSTICTUS
SAND SOLE
RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON

SEBASTES CAURINUS
COPPER ROCKFISH
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

EUMETOPHYS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
PHOCA VITULINA
HARBOR SEAL

PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATODON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ALLOCENTROTUS FRAGILIS
SEA URCHIN
AMPHIOPUS STRONGYLOPLAX
BRITTLE STAR
APIIURA SARSII
BRITTLE STAR
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
DENDRASTER EXCENTRICUS
SAND DOLLAR
LEPTOSYNAPTA
SEA CUCUMBER
LISTRIOLOBUS HEXAMYOTUS
ECHIURID WORM
LOPHOLITHOIDES FORAMINATUS
BOX CRAB
LOPHOLITHOIDES MANDTII
PUGET SOUND KING CRAB
LUMBRINERIS BICIRRATA
POLYCHAETE
LUMBRINERIS SIMILABRIS
POLYCHAETE
MACOMA ALCAREA
CHALKY CLAM
MAGELONA JAPONICA
POLYCHAETE
MOLPADIA INTERMEDIA
SEA CUCUMBER
OPHIOPHOLIS BAKERI
BRITTLE STAR
OPHIURA LUTKENI
BRITTLE STAR
PARASTICHOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
TELLINA BUTTONI
BUTTON'S TELLIN CLAM
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
OENOPOTA
SNAIL
PSEUDARCHESTER PARELII ALASCEN
SEA STAR

TROPHIC LEVEL: (6) PARASITE
FISHES

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY

HABITAT: MUDDY SAND NON-VEGETATED BENTHIC

LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM
AXINOPSIDA SERICATA
CLAM
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CARDIOMYA PLANETICA
CLAM
CARDITA STEARNSII
CLAM
CARDITA VENTICOSA
CLAM
CHLAMYS HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYS HINDSI
HIND'S CLAM
CLINOCARDIUM NUTALLI
BASKET COCKLE
COMPSOMYX SUBDIAPHANA
CLAM
CRENELLA COLUMBIANA
CLAM
EUPLEXAURA MARKI
SEA PEN
HUXLEYIA MUNITA
CLAM
LIEOPTULUS QUADRANGULARIS
SEA PEN
LYONSIA STRIATA
CLAM
NEMOCARDIUM CENTRIFILISUM
HUNDRED-LINED COCKLE
NUCULA TENUIS
CLAM
NUCULANA AUSTINI
CLAM
NUCULANA PERNULS
CLAM
PATINOPECTIN CAURINUS
WEATHERVANE SCALLOP
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTHACA STAMINEA
ROCK COCKLE
PSEPHIDIA LORDI
CLAM
PSOLUS SQUAMATUS
SEA CUCUMBER
SAXICAVA ARCTICA
ARCTIC SAXICLAVE CLAM
SCLEROPTILUM
SEA PEN
SOLEMYA AGASSIZI
AWNING CLAM
STYLATULA ELONGATA
SEA PEN
THRACIA CURTA
CLAM
THRACIA TRAPEZOIDES
CLAM
THYASIRA BARBARENSIS
CLAM
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM

YOLDIA LIMATULA GAIRDERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

CANCER MAGISTER
DUNGENESS CRAB
OLIVELLA
OLIVE SNAIL
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

APHRODITE JAPONICA
POLYCHAETE
ARCTONOE PULCHRA
POLYCHAETE
CARINOMELLA LACTEA
RIBBON WORM
CEREBRATULUS CALIFORNIENSIS
RIBBON WORM
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
ENIPI GRACILIS
POLYCHAETE
GLYCERA AMERICANA
POLYCHAETE
HAPLOSCOLOPUUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CACOIDES
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS CORNUTA
POLYCHAETE
NEPHTYS FERRUGINEA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRINTOCARIS LAMELLICORNIS
SHRIMP
SPIRINTOCARUS HOLMESI
SHRIMP

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
AGONUS ACIPENSERINUS
STURGEON POACHER
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS PULCHELLUS
SHOWY SNAILFISH
LUMPENUS SAGITTA
SNAKE PRICKLEBACK
LYCONECTES ALEUTENSIS
DWARF WRYMOUTH
MICROGADUS PROXIMUS
PACIFIC TOMCOD
POROCLINIS ROTHROCKI
WHITEBARRED BLENNY
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
RADULINUS ASPRELLUS
SLIM SCULPIN
XENERETMUS LATIFRONS
BLACKTIP POACHER

TROPHIC LEVEL: (-)
INVERTEBRATES

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

TROPHIC LEVEL: (Q)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPPIASTERIA SPINOSA
SEA STAR
LAFOEIA ADMATA
HYDROID
LAFOEIA DUMOSA

HABITAT: MUDDY SAND NON-VEGETATED BENTHIC

HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
RATHBUNASTER CALIFORNICUS
SEA STAR
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

TROPHIC LEVEL: (Q)
FISHES

PLEUROMICHTHYS COENOSUS
C-O SOLE

HABITAT: SAND NON-VEGETATED BENTHIC

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACMAEA MITRA
DUNCECAP LIMPET

**TROPHIC LEVEL: (2) HERBIVORE
FISHES**

ASTEROTHECA PENTACANTHUS
BIGEYE POACHER

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACMAEA LIMATULA
FILE LIMPET
ANTIPLANES ABARBAREA
SNAIL
ANTIPLANES PERVERSA
SNAIL
ANTIPLANES VINOSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BENTHOCTOPUS
OCTOPUS
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CADULUS STEARNSII
TOOTH SHELL
CALLIOSTOMA ANNULATUM
SNAIL
CHIONECTES BAIRDI
TANNER CRAB
CHIONECTES OPILIO
TANNER CRAB
CHIONECTES TANNERI
TANNER CRAB
COLUS ROSEUS
SNAIL
COLUS SERVINUS
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DENTALIUM
TOOTH SHELL
DERMASTERIAS IMBRICATA
LEATHER STAR
EPITONIUM INDIANORUM
SNAIL
EVASTERIAS TROSCHELI
SEA STAR
FUSITRITON OREGONENSIS
OREGON TRITON
HENRICIA LEVISCULA
BLOOD STAR
ISCHNOCHITON
CHITON
LEPIDAZONA
CHITON
LEPIDAZONA GOLISCHI
CHITON

LEPTOCHITON
CHITON
LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
METRIDIDIUM FIMBRIATUM
SEA ANEMONE
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
NATICA CLAUSA
SNAIL
NEPTUNEA LYRATA
SNAIL
OCTOPUS DOLFEINI
OCTOPUS
PISASTER BREVISPINOUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
POLINICES LEWISII
MOON SNAIL
POLINICES PALLIDUS
MOON SNAIL
POLYPUS
OCTOPUS
PTERASTER TESSELLATUS ARCUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSSIA PACIFICA
SQUID
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUM STAR
STYLASTERIAL FORRERI
SEA STAR
TACHYRHYNCHUS LACTEOLUM
SNAIL
TACHYRHYNCHUS PRATOMUM
SNAIL
THRISSACANTHIAS PENCILATUS
SEA STAR
TROPHON TRIPHERUS
SNAIL

**TROPHIC LEVEL: (3) CARNIVORE
FISHES**

ACIPENSER TRANSMONTANUS
WHITE STURGEON
BROSMOPHYCIS MARGINATA
RED BROTLA
CHITOMOTUS PUGETENSIS
ROUGHBACK SCULPIN
CITHARICHTHYS SORDIDUS
PACIFIC SANDDAB
CITHARICHTHYS STIGMAEUS
SPECKLED SANDDAB
DASYATIS DIPTERURA
DIAMOND STINGRAY

DASYCOTTUS SETIGER
SPINYHEAD SCULPIN
EOPSETTA JORDANI
PETRALE SOLE
GADUS MACROCEPHALUS
PACIFIC COD
GLYPTOCEPHALUS ZACHIRUS
REX SOLE
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS STELLERI
WHITESPOTTED GREENLING
HEXANCHUS GRISEUS
SIXGILL SHARK
HIPPOGLOSSOIDES ELASSODOM
FLATHEAD SOLE
HIPPOGLOSSUS STENCLEPIS
PACIFIC HALIBUT
HYDROLAGUS COLLIEI
RATFISH
ICELINUS FILAMENTOSUS
THREADFAN SCULPIN
ISOPSETTA ISOLEPIS
BUTTER SOLE
LYOPSETTA EXILIS
SLENDER SOLE
MICROSTOMUS PACIFICUS
DOVER SOLE
OPHIODON ELONGATUS
LINGCOD
PAROPHRYUS VETULUS
ENGLISH SOLE
PLATICHTHYS STELLATUS
STARRY FLOUNDER
PORICHTHYS NOTATUS
PLAINFIN MIDSHIPMEN
PSETTICHTHYS MELANOSTICTUS
SAND SOLE
RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SQUALUS ACANTHIAS
SPINY DOGFISH
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY
TRIAKIS SEMIFASCIATA
LEOPARD SHARK

**TROPHIC LEVEL: (3) CARNIVORE
MAMMALS**

EUMETOPIAS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
PHOCA VITULINA
HARBOR SEAL
PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATODON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

HABITAT: SAND NON-VEGETATED BENTHIC

ZIPHEUS CAVIROSTRIS
CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ALLOCENTROTUS FRAGILIS
SEA URCHIN
AMPHIPLUS STRONGYLOPAX
BRITTLE STAR
APHIURA SARSII
BRITTLE STAR
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
DENDRASTER EXCENTRICUS
SAND DOLLAR
LOPHOLITHOIDES FORAMINATUS
BOX CRAB
LOPHOLITHOIDES MANDTII
PUGET SOUND KING CRAB
LUMBRINERIS BICIRRATA
POLYCHAETE
LUMBRINERIS SIMILABRIS
POLYCHAETE
MACOMA ALCAREA
CHALKY CLAM
MAGELONA JAPONICA
POLYCHAETE
MOLPADIA INTERMEDIA
SEA CUCUMBER
OPHIOPHOLIS BAKERI
BRITTLE STAR
OPHIURA LUTKENI
BRITTLE STAR
PARASTICHOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
STRONGYLOCENTROTUS ECHINOIDES
SEA URCHIN
TELLINA BUTTONI
BUTTON'S TELLIN CLAM
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
OENOPOTA
SNAIL
PSEUDARCHASTER PARELII ALASCEN
SEA STAR

TROPHIC LEVEL: (6) PARASITE
FISHES

LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM

AXINOPSIDA SERICATA
CLAM
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CARDIOMYA PLANETICA
CLAM
CARDITA STEARNSII
CLAM
CARDITA VENTICOSA
CLAM
CHLAMYDASTES HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYDASTES HINDSI
HIND'S CLAM
CLINOCARDIUM NUTALLI
BASKET COCKLE
COMPSOMYAX SUBDIAPHANA
CLAM
CRENELLA COLUMBIANA
CLAM
EUPLEXAURA MARKI
SEA PEN
MURICIA MUNITA
CLAM
LIEOPTULUS QUADRANGULARIS
SEA PEN
LYONSIA STRIATA
CLAM
NEMOCARDIUM CENTRIFILOSUM
HUNDRED-LINED COCKLE
NUCULA TENUIS
CLAM
NUCULANA AUSTINI
CLAM
NUCULANA PERNULS
CLAM
PATINOPECTIN CAURINUS
WEATHERVANE SCALLOP
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTHACA STAMINEA
ROCK COCKLE
PSEPHIDIA LORDI
CLAM
PSOLUS SQUAMATUS
SEA CUCUMBER
SAXICAVA ARCTICA
ARCTIC SAXICLAVE CLAM
SCLEROPTILUM
SEA PEN
SILIOQUA PATULA
PACIFIC RAZOR CLAM
SILIOQUA SLOATI
SLOAT'S RAZOR CLAM
SOLEMYA AGASSIZI
AWNING CLAM
STYLATULA ELONGATA
SEA PEN
THRACIA CURTA
CLAM
THRACIA TRAPEZOIDES
CLAM
THYASIRA BARBARENSIS
CLAM
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM
YOLDIA LIMATULA GAIRDERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER

INVERTEBRATES

CANCER MAGISTER
DUNGENESS CRAB
OLIVELLA
OLIVE SNAIL
OLIVELLA BIPLICATA
PURPLE OLIVE SNAIL
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

APHRODITE JAPONICA
POLYCHAETE
ARCTONOE PULCHRA
POLYCHAETE
CARINOMELLA LACTEA
RIBBON WORM
CEREBRATULUS CALIFORNIENSIS
RIBBON WORM
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
ENIPO GRACILIS
POLYCHAETE
GLYCERA AMERICANA
POLYCHAETE
HAPLOSCOLOPUUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CACOIDES
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS CORNUTA
POLYCHAETE
NEPHTYS FERRUGINEA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS DANAE
DOCK SHRIMP
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

HABITAT: SAND NON-VEGETATED BENTHIC

**TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES**

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
AGONUS ACIPENSERINUS
STURGEON POACHER
AMMODYTES HEXAPTERUS
PACIFIC SAND LANCE
AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
CYMATOGASTER AGGREGATA
SHINER PERCH
EMBIOTOCA LATERALIS
STRIPED SEAPERCH
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS PULCHELLUS
SHOWY SNAILFISH
MICROGADUS PROXIMUS
PACIFIC TOMCOD
POROCLINIS ROTHROCKI
WHITEBARRED BLENNY
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
RADULINUS ASPRELLUS
SLIM SCULPIN
XENERETMUS LATIFRONS
BLACKTIP POACHER

**TROPHIC LEVEL: (-)
INVERTEBRATES**

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

**TROPHIC LEVEL: (0)
INVERTEBRATES**

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPPIASTERIA SPINOSA

SEA STAR
LAFOEA ADNATA
HYDROID
LAFOEA DUMOSA
HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLINA
HYDROID
MEDIASTER AEQUALIS
VERMILLOW STAR
NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

**TROPHIC LEVEL: (0)
FISHES**

PLEURONICHTHYS COENOSUS
C-O SOLE

HABITAT: SURFGRASS VEGETATED BENTHIC

TROPHIC LEVEL: (1) PRODUCER
PLANTS

AHNFELTIA CONCINNA
RED ALGAE
AHNFELTIA PLICATA
RED ALGAE
ALARIA MARGINATA
KELP
ANTITHAMNION PACIFICUM
RED ALGAE
BOSSIELLA CALIFORNICA
CORALLINE RED ALGAE
BOSSIELLA PLUMOSA
CORALLINE RED ALGAE
BOTRYOCLADIA PSEUDODICHOTOMA
RED ALGAE
CALLIARTHON REGENERANS
CORALLINE RED ALGAE
CALLIARTHON SCHMITTII
CORALLINE RED ALGAE
CALLOPHYLLIS EDENTATA
RED ALGAE
CERAMIVM CALIFORNICUM
RED ALGAE
CONSTANTINEA SIMPLEX
RED ALGAE
CONSTANTINEA SUBULIFERA
RED ALGAE
CORALLINA VANCOUVERIENSIS
CORALLINE RED ALGAE
CRYPTOPLEURA RUPRECHTIANA
RED ALGAE
CYSTOSEIRA GEMINATA
KELP
DELESSERIA DECIPIENS
RED ALGAE
DILSEA CALIFORNICA
RED ALGAE
EGREGIA MENZIESII
KELP
EISENIA ARBOREA
KELP
ERYTHROPHYLLUM DELESSERIOIDES
RED ALGAE
GASTROCLONIUM COULTERI
RED ALGAE
GELIDIUM ROBUSTUM
RED ALGAE
GIGARTINA EXASPERATA
RED ALGAE
GLOIOSIPHONIA VERTICILLARIS
RED ALGAE
GRACILARIOPSIS SJOESTEDII
RED ALGAE
GRATELOUPIA CALIFORNICA
RED ALGAE
GYMNOGONGRUS PLATYPHYLLUS
RED ALGAE
HYMENENA FLABELLIGERA
RED ALGAE
HYMENENA SETCHELLII
RED ALGAE
IRIAOEA CORDATA
RED ALGAE

LAMINARIA GROENLANDICA
KELP
LAMINARIA SACCHARINA
KELP
LAMINARIA SETCHELLII
KELP
LAURENCIA SPECTABILIS
RED ALGAE
MACROCYSTIS INTEGRIFOLIA
GIANT KELP
MEMBRANOPTERA PLATYPHYLLA
RED ALGAE
MICROCLAUDIA COULTARI
RED ALGAE
OPUNTIELLA CALIFORNICA
RED ALGAE
PHYLOSPADIX SCOULEI
SEA GRASS
PHYLOSPADIX TORREYI
SEA GRASS
PLOCAMIVM PACIFICUM
RED ALGAE
POLYNEURA LATISSIMA
RED ALGAE
PORPHYRA PERFORATA
RED ALGAE
PRIONITIS LANCEOLATA
RED ALGAE
PTEROSIPHONIA BIPIUNATA
RED ALGAE
PTERYGOPHORA CALIFORNICA
KELP
PTILOTA ASPLENIOIDES
RED ALGAE
RHODOGLOSSUM LATISSIMUM
RED ALGAE
RHODOMENIA PALMATA
RED ALGAE
RHODOMENIA PERTUSA
RED ALGAE
RHODOPTILUM PLUMOSUM
RED ALGAE
SARGASSUM MUTICUM
KELP
SCHIZYMENIA PACIFICA
RED ALGAE
SMITHORA NAIADUM
RED ALGAE
STENOGRAMME INTERRUPTA
RED ALGAE
TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES
ACMAEA MITRA
DUNCECAP LIMPET
STRONGYLOCENTROTUS FRANCISCANU
GIANT RED URCHIN
STRONGYLOCENTROTUS PURPURATUS
PURPLE SEA URCHIN
TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES
ACMAEA LIMATULA
FILE LIMPET
ANTIPLANES PERVERSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR

BORETROPHOM STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CALLIOSTOMA ANNULATUM
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DERMASTERIAS IMBRICATA
LEATHER STAR
LISCHKEIA CIDARIS
SNAIL
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
PISASTER BREVISPINOUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
SOLASTER STIMPSONI
SUN STAR

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

BANKIA SETACEA
TEREDO
PARASITICHOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
OENOPOTA
SNAIL
ONCOSOECIA
BRYOZOAN

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

BUGULA FLABELLATA
BRYOZOAN
CELLARIA MANDIBULATA
BRYOZOAN
CLINOCARDIUM MUTALLI
BASKET COCKLE
LAGENIPORA PUNCTULATA
BRYOZOAN
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
TEREBRATALIA TRANSVERSA
LAMP SHELL

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

HABITAT: SURFGRASS VEGETATED BENTHIC

PHYLLOLITHOIDES PAPILLOSUS
PAPILLA CRAB

TROPHIC LEVEL: (Q)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECTIUM CORRUGATUM
HYDROID
LAFOEA ADNATA
HYDROID
LAFOEA DUMOSA
HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
PLUMULARIA ALICIA
HYDROID
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

HABITAT: SURFGRASS VEGETATED BENTHIC

HABITAT: UNPROTECTED BEACH SURF

<u>TROPHIC LEVEL: (1) PRODUCER INVERTEBRATES</u>	PHOCA VITULINA HARBOR SEAL SPILOGALE PUTORIUS SPOTTED SKUNK ZALOPHUS CALIFORNIANUS CALIFORNIA SEA LION	MOLE CRAB SILIGUA PATULA RAZOR CLAM
CHAETOCEROS ARMATUM DIATOM	<u>TROPHIC LEVEL: (4) DETRITIVORE INVERTEBRATES</u>	<u>TROPHIC LEVEL: (8) SCAVENGER INVERTEBRATES</u>
<u>TROPHIC LEVEL: (1) PRODUCER NON-VASCULAR PLANTS</u>	ALLONISCUS PERCONVEXUS ISOPODS CALLIANASSA CALIFORNIENSIS GHOST SHRIMP CIROLANA KINCAIDI ISOPODS COELOPA KELP FLY EUZONUS MUCRONATA BLOOD WORMS ORCHESTOIDEA CALIFORNIANA SAND FLEE SPIONIDAE WORM	OLIVELLA BIPLICATA PURPLE OLIVE SNAIL
ASTRIONELLA SOCIALIS DIATOM		<u>TROPHIC LEVEL: (8) SCAVENGER BIRDS</u>
<u>TROPHIC LEVEL: (1) PRODUCER VASCULAR PLANTS</u>		LARUS GLAUCESCENS GLAUCOS-WINGED GULL LARUS OCCIDENTALIS WESTERN GULL
PHYLLOSPADIX SCOULERI SCOULER'S SURFGRASS		<u>TROPHIC LEVEL: (9) INVERTEBRATE EATER - INVERTEBRATES</u>
<u>TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES</u>		CEREBRATULUS RIBBON WORM ECHAUSTORIUS WASHINGTONIANUS AMPHIPOD PONTOMALOTA OPACA ROVE BEETLE STAPHYLINIDAE ROVE BEETLES THINOPINUS PICTUS ROVE BEETLE THINUSA MARITIMA ROVE BEETLE
ENDEODES COLLARIS COLEOPTERA	<u>TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES</u>	<u>TROPHIC LEVEL: (9) INVERTEBRATE EATER - FISHES</u>
<u>TROPHIC LEVEL: (2) HERBIVORE MAMMALS</u>	CRAGO NIGRICALDA BLACK-TAILED SHRIMP CRAGO SPP. -NULL-	ALLOSMERUS ELONGATUS WHITEBAIT SMELT AMNODYTES HEXAPTERUS PACIFIC SAND LANCE AMPHISTICHUS RHODOTERUS REDTAIL SURFPERCH HYPOMESUS PRETIOSUS SURFSMELT
ODOCOILEUS HEMIONUS COLUMBIANO BLACK-TAILED DEER	<u>TROPHIC LEVEL: (5) OMNIVORE FISHES</u>	<u>TROPHIC LEVEL: (9) INVERTEBRATE EATER - BIRDS</u>
<u>TROPHIC LEVEL: (3) CARNIVORE INVERTEBRATES</u>	PHANERODON FURCATUS WHITE SEAPERCH	ARENARIA INTERPRES RUDDY TURNSTONE CALIDRIS ALBA SANDERLING CALIDRIS ALPINA DUNLIN CALIDRIS BAIRDII BAIRD'S SANDPIPER CALIDRIS CANUTUS RED KNOT CALIDRIS MAURI WESTERN SANDPIPER CHARADRIUS ALEXANDRINUS SNOWY PLOVER CHARADRIUS SEMIPALMATUS SEMIPALMATED PLOVER LIMNODROMUS GRISEUS SHORT-BILLED DOWITCHER LIMOSA FEDOA MARBLED GODWIT
GLYCERIDAE PROBOSCIS WORM	<u>TROPHIC LEVEL: (5) OMNIVORE BIRDS</u>	
<u>TROPHIC LEVEL: (3) CARNIVORE BIRDS</u>	CORVUS BRACHYRHYNCHOS COMMON CROW	
LARUS ARGENTATUS HERRING GULL LARUS CALIFORNICUS CALIFORNIA GULL LARUS CANUS NEW GULL LARUS HEERMANNI HEERMAN'S GULL LARUS PHILADELPHIA BONAPARTE'S GULL RISSA TRIDACTYLA BLACK-LEGGED KITTIWAKE	<u>TROPHIC LEVEL: (5) OMNIVORE MAMMALS</u>	
<u>TROPHIC LEVEL: (3) CARNIVORE MAMMALS</u>	MEPHITIS MEPHITIS STRIPED SKUNK PEROMYSCUS MANICULATUS DEER MOUSE PROCYON LOTOR RACCOON	
EUMETOPIAS JUBATA STELLER'S SEA LION LYNX RUFUS BOBCAT MIROUNGA ANGUSTIROSTRIS ELEPHANT SEAL MUSTELA FRENATA LONG-TAILED WEASEL MUSTELA VISON MINK	<u>TROPHIC LEVEL: (6) PARASITE INVERTEBRATES</u>	
	ALEOCHARA ARENARIA ROVE BEETLE MALACOBDELLA SPP. RIBBON WORM	
	<u>TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES</u>	
	ARCHAEOYMSIS GREBNITZKII MYSID EMERITA ANALOGA	

HABITAT: UNPROTECTED BEACH SURF

NUMENIUS PHAEOPUS
WHIMBREL
PLUVIALIS SQUATAROLA
BLACK-BELLIED PLOVER

TROPHIC LEVEL: (Q) UNKNOWN
INVERTEBRATES

HAUSTORIIDAE
AMPHIPOD

HABITAT: PROTECTED BEACH SURF

TROPHIC LEVEL: (1) PRODUCER
VASCULAR PLANTS

PHYLLOSPADIX SCOULERI
SCOULER'S SURFGRASS
PLANTAGO MARITIMA
SEASIDE PLANTAIN
TENACETUM DOUGLASII
DUNE TANSY

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

LUMBRINARIS ZONATA
WORM

TROPHIC LEVEL: (2) HERBIVORE
BIRDS

BRANTA BERNICLA
BRANT

TROPHIC LEVEL: (2) HERBIVORE
MAMMALS

ODOCOILEUS HEMIONUS COLUMBIANUS
BLACK-TAILED DEER

TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES

GLYCERIDAE
PROBOSCIS WORM

TROPHIC LEVEL: (3) CARNIVORE
FISHES

MYOXOCEPHALUS POLYACANTHOCEPHA
GREAT SCULPIN
PAROPHRYS VETULUS
ENGLISH SOLE
PLATICHTHYS STELLATUS
STARRY FLOUNDER
PSETTICHTHYS MELANOSTICTUS
SAND SOLE
SEBASTES PAUCISPINIS
BOCCACIO

TROPHIC LEVEL: (3) CARNIVORE
BIRDS

ARDEA HERODIAS
GREAT BLUE HERON
LARUS ARGENTATUS
HERRING GULL
LARUS CALIFORNICUS
CALIFORNIA GULL
LARUS CANUS
MEW GULL
LARUS DELAWARENSIS
RING-BILLED GULL
LARUS HEERMANNI
HEERMAN'S GULL
LARUS PHILADELPHIA
BONAPARTE'S GULL

RISSA TRIDACTYLA
BLACK-LEGGED KITTIWAKE
STERNA CASPIA
CASPIAN TERN
TRINGA FLAVIPES
LESSER YELLOWLEGS

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

EUMETOPIAS JUBATA
STELLER'S SEA LION
LYNX RUFUS
BOBCAT
MIROUNGA ANGUSTIROSTRIS
ELEPHANT SEAL
MUSTELA FRENATA
LONG-TAILED WEASEL
MUSTELA VISON
MINK
PHOCA VITULINA
HARBOR SEAL
SPILOGALE PUTORIUS
SPOTTED SKUNK
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ABARENICOLA CLAPAREDI OCEANIC
LUGWORM
CALLIANASSA CALIFORNIENSIS
GHOST SHRIMP
CIROLANA KINCAIDI
ISOPODS
EUZONUS MUCRONATA
BLOOD WORM
ORCHESTIA TRASKIANA
LESSER BEACH HOPPER ORCHESTOIDEA
CALIFORNIANA
SAND FLEE/GREAT BEACH HOPPER
SPIONIDAE
WORM

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

CRAGO NICRACAUDA
BLACK-TAILED SHRIMP
CRAGO SPP.
-NULL-

TROPHIC LEVEL: (5) OMNIVORE
FISHES

HYPERPROSOPON ANGENTEUM
WALLEYE SURFPERCH
HYPERPROSOPON ELLIPTICUM
SILVER SURFPERCH

TROPHIC LEVEL: (5) OMNIVORE
BIRDS

CORVUS BRACHYRHYNCHOS
COMMON CROW

TROPHIC LEVEL: (5) OMNIVORE
MAMMALS

MEPHITIS MEPHITIS
STRIPED SKUNK
PEROMYSCUS MANICULATUS
DEER MOUSE
PROCYON LOTOR
RACCOON

TROPHIC LEVEL: (6) PARASITE
INVERTEBRATES

MALACOBDELLA SPP.
RIBBON WORM

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ARCHAEMYDIS GREBNITZKII
MYSID
EMERITA ANALOGA
MOLE CRAB
SILUQUA PATULA
RAZOR CLAM

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

OLIVELLA BIPPLICATA
PURPLE OLIVE SNAIL

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

HALIAEETUS LEUCOCEPHALUS
BALD EAGLE
LARUS GLAUCESCENS
GLAUCOUS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

CEREBRATULUS
RIBBON WORM
EOHAUSTORIUS WASHINGTONIANUS
AMPHIPOD
PARAMERTES PEREGRINA
NEMERTEAN
STAPHYLINIDAE
ROVE BEETLES

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

ALLOSMERUS ELONGATUS
WHITEBAIT SMELT
ALOSA SAPIDISSIMA
AMERICAN SHAD
AMMODYTES HEXAPTERUS
PACIFIC SAND LANCE
AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
CYMATOGASTER AGGREGATA
SHINER PERCH
HYPOMESUS PRETIOSUS
SURFSMELT
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN

HABITAT: PROTECTED BEACH SURF

MICROGADUS PROXIMUS
PACIFIC TOMCOD

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ACTITIS MACULARIA
SPOTTED SANDPIPER
ARENARIA INTERPRES
RUDDY TURNSTONE
ARENARIA MELANOCEPHALA
BLACK TURNSTONE
CALIDRIS ALBA
SANDERLING
CALIDRIS ALPINA
DUNLIN
CALIDRIS BAIRDII
BAIRD'S SANDPIPER
CALIDRIS CANUTUS
RED KNOT
CALIDRIS MAURI
WESTERN SANDPIPER
CALIDRIS MINUTILLA
LEAST SANDPIPER
CHARADRIUS ALEXANDRINUS
SNOWY PLOVER
CHARADRIUS SEMIPALMATUS
SEMIPALMATED PLOVER
CHARADRIUS VOCIFERUS
KILLDEER
LIMNOCOROMUS GRISEUS
SHORT-BILLED DOWITCHER
LIMNOCOROMUS SCOLOPACEUS
LONG-BILLED DOWITCHER
LIMOSA FEDOA
MARBLED GODWIT
LOBIPES LOBATUS
NORTHERN PHALAROPE
NUMENIUS AMERICANUS
LONG-BILLED CURLEW
NUMENIUS PHAEOPUS
WHIMBREL
PLUVIALIS DOMINICA
AMERICAN GOLDEN PLOVER
PLUVIALIS SQUATAROLA
BLACK-BELLIED PLOVER
TRINGA MELANOLEUCA
GREATER YELLOWLEGS

TROPHIC LEVEL: (0) UNKNOWN
INVERTEBRATES

HAUSTORIIDAE
AMPHIPOD

HABITAT: UNPROTECTED ROCKY SURF

**TROPHIC LEVEL: (1) PRODUCER
NON-VASCULAR PLANTS**

ALARIA NANA
-NULL-
BOSSEA MANZA
LEAF CORAL
BRYOPSIS CORTICULANS
SEA FERN
CALLIARTHRON MANZA
BEAD CORAL
CALLITHAMNION PIKEANUM
BEAUTY BUSH
CLADOPHORA TRICHOTOMA
GREEN BALL
CODIUM FRAGILE
SEA STAGHORN
CODIUM SETCHELLII
SPUNGY CUSHION
CORALLINA GRACILIS
GRACEFUL CORAL
COSTARIA COSTATA
SEERSUCKER
CUMAGLOIA ANDERSONII
-NULL-
CYAMATHERE TRIPLICATA
TRIPLE RIB
CYTOSSEIRA OSMUNDACEA
WOODY CHAIN BLADDER
EGREGIA MENZIESII
FEATHER BOA
ENDOCLADIA MURICATA
NAIL BRUSH
ENTEROMORPHA COMPRESSA
GREEN CONFETTI
ENTEROMORPHA INTESTINALIS
LINK CONFETTI
ENTEROMORPHA PLUMOSA
SILK CONFETTI
GRATELOUPTA PINNATA
POINTED LYNX
HALICYSTIS OVALIS
-NULL-
HEDOPHYLLUM SESSILE
SEA CABBAGE
MYMENENA FLABELLIGERA
VEINED FAN
IRIDOPHYCUS SPECIES
IRIDESCENT SEAWEED
LAMINARIA ANDERSONII
SPLIT WHIP WRACK
LAMINARIA PLATYMERIS
SEA GIRDLE OR TANGLE
LAMINARIA SETCHELII
-NULL-
LESSONOPSIS LITTORALIS
-NULL-
LITHOTHAMNIUM SPECIES
RED ROCK CRUST
MICROCLADIA BOREALIS
COARSE SEA LACE
PELVETIOPSIS LIMITATA
-NULL-
PLEUROPHYCUS GARDNERI
SEA SPATULA

POLYSIPHONIA PACIFICA
POLLY PACIFIC
PORPHYRA LANCEOLATA
RED JABOT LABER
PORPHYRA PERFORATA
RED LAVER
POSTELSIA PALMAEFORMIS
SEA PALM
PRESIDLA MERIDIONALIS
-NULL-
PRIONITIS LANCEOLATA
-NULL-
PRIONITIS LYALLII
LYALL'S SEAWEED
PTERYGOPHORA CALIFORNICA
POMPON
PTILOTA FILICINA
RED WING
PTILOTA HYPNOIDES
-NULL-
RALFSIA PACIFICA
TAR SPOT
SCHIZYMENIA PACIFICA
SEA ROSE
SCYTOSIPHON LOMENTARIA
WHIP TUBE
SPONGOMORPHA COALITA
GREEN ROPE
UROSPORA MIRABILIS
-NULL-

**TROPHIC LEVEL: (1) PRODUCER
VASCULAR PLANTS**

PHYLLOSPADIX SCOULERI
SCOULER'S SURFGRASS

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACMAEA DIGITALIS
LIMPET
ACMAEA Pelta
BROWN & WHITE SHIELD LIMPET
DIDDORA ASPERA
KEYHOLE LIMPET
KATHERINA TUMICATA
BLACK CHITON
NUTTALINA CALIFORNICA
CHITON
PARACLUNIO ALASKENSIS
MIDGE
STRONGLYOCENTROTUS PURPURATUS
PURPLE SEA URCHIN

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ANISODORIS NOBILIS
SEA LEMON
PISASTER GIGANTEUS
SEASTAR
PISASTER OCHRACEUS
SEASTAR
THAIS
SNAIL

**TROPHIC LEVEL: (3) CARNIVORE
FISHES**

ASCELICHTHYS RHODORUS
ROSYLIP SCULPIN
RAJA STELLULATA
STARRY SKATE
SEBASTES MELANOPS
BLACK ROCKFISH

**TROPHIC LEVEL: (3) CARNIVORE
BIRDS**

AECHMOPHORUS OCCIDENTALIS
WESTERN GREBE
CEPPHUS COLUMBA
PIGEON GUILLEMOT
CERORHINCA MONOCERATA
RHINOCEROS AUKLET
GAVIA ARCTICA
ARCTIC LOON
HAEMATOPUS BACHMANI
BLACK OYSTERCATCHER
HISTRIONICUS HISTRIONICUS
HARLEQUIN DUCK
LARUS ARGENTATUS
HERRING GULL
LARUS CALIFORNICUS
CALIFORNIA GULL
LARUS CANUS
MEW GULL
LARUS HEERMANNI
HEERMAN'S GULL
LUNDA CIRRHATA
TUFTED PUFFIN
MELANITTA DEGLANDI
WHITE-WINGED SCOTER
PELECANUS OCCIDENTALIS
BROWN PELICAN
PHALOCROCORAX AURITUS
DOUBLE-CRESTED CORMORANT
PHALOCROCORAX PELAGICUS
PELAGIC CORMORANT
PHALOCROCORAX PENICILLATUS
BRANDT'S CORMORANT
RISSA TRIDACTYLA
BLACK-LEGGEED KITTIWAKE
URIA AALGE
COMMON MURRE

**TROPHIC LEVEL: (3) CARNIVORE
MAMMALS**

ENHYDRA LUTRIS
SEA OTTER
EUMETOPIAS JUBATA
STELLER'S SEA LION
LUTRA CANADENSIS
RIVER OTTER
MIROUNGA ANGUSTIROSTRIS
ELEPHANT SEAL
MUSTELA VISON
MINK
PHOCA VITULINA
HARBOR SEAL
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

**TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES**

HABITAT: UNPROTECTED ROCKY SURF

EUDISTYLIA VANCOUVERI
SABELLID
IDOTEA SCHMITTI
ISOPOD
IDOTEA WOSNESENSKII
OLIVE GREEN ISOPOD
LIGIA PALLASI
ROCK LOUSE
SABELLARIA CEMENTARIUM
WORM

TROPHIC LEVEL: (5) OMNIVORE
MAMMALS

PROCYON LOTOR
RACCOON

TROPHIC LEVEL: (6) PARASITE
INVERTEBRATES

FABIA SUBQUADRATA
PEA CRAB
HETEROSACCUS CALIFORNICUS
-NULL-

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

BALANUS GLANDULA
BARNACLE
MYTILUS CALIFORNIANUS
MUSSEL
NEANTHES BRANDTI
WORM
POLLICIPES POLYMERUS
PACIFIC GOOSE BARNACLE
VOLSELLA MODIOLUS
HORSE MUSSEL

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

LARUS GLAUCESCENS
GLAUCOUS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

AMBLOPUSA BOREALIS
ROVE BEETLE
CEPHALOTHORIX LINEARIS
NEMERTEAN
DIAULOTA DENSISSIMA
ROVE BEETLE
EMPLECTONEMA GRACILE
RIBBON WORM
LIPAROCEPHALUS CORDICOLLIS
ROVE BEETLE
MICRURA VERRILLI
NEMERTEAN
PARAMERTES PEREGRINA
NEMERTEAN
THALASSOTRECHUS BARBARAE NIGRI
GROUND BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
CYMATOGASTER AGGREGATA
SHINER PERCH

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ACTITIS MACULARIA
SPOTTED SANDPIPER
APHRIZA VIRGATA
SURFBIRD
ARENARIA INTERPRES
RUDDY TURNSTONE
ARENARIA MELANOCEPHALA
BLACK TURNSTONE
CALIDRIS PTILOCNEMIS
ROCK SANDPIPER
HETEROSCELUS INCANUM
WANDERING TATTLER
NUMENIUS PHAEOPUS
WHIMBREL

TROPHIC LEVEL: (9) UNKNOWN
INVERTEBRATES

HAPALOGASTER CAVICALDA
CRAB

HABITAT: PROTECTED ROCKY SURF

TROPHIC LEVEL: (1) PRODUCER NON-VASCULAR PLANTS

AGARUM FIMBRIATUM
SEA COLANDER
BOSSEA MANZA
LEAF CORAL
CALLIARTHON MANZA
BEAD CORAL
CALLITHAMNION PIKEANUM
BEAUTY BUSH
CERAMIAM CALIFORNICUM
-NULL-
CERAMIAM PACIFICUM
POTTERY SEAWEED
COILODESME CALIFORNICA
STICK BAG
COLPOMENIA SINUOSA
POCKET OR OYSTER THIEF
CORALLINA CHILENSIS
TIDE POOL CORAL
CUMAGLOIA ANDERSONII
-NULL-
CYSTOPHYLLUM GERMINATUM
BLADDER LEAF
CYSTOSEIRA OSMONDACEA
WOODY CHAIN BLADDER
DESMARESTIA ACULEATA
CRISP COLOR CHANGER
DESMARESTIA INTERMEDIA
LOOSE COLOR CHANGER
DESMARESTIA MUNDA
WIDE BRANCH COLOR CHANGER
ENTEROMORPHA COMPRESSA
GREEN CONFETTI
ENTEROMORPHA INTESTINALIS
LINK CONFETTI
ENTEROMORPHA PLUMOSA
SILK CONFETTI
FUCUS FURCATA
ROCKWEED OR POPPING WRACK
GASTROCLONIUM COULTERI
SEA BELLY
GIGARTINA EXASPERATA
TURKISH TOWEL
GIGARTINA SPECIES
GRAPESTONE
GRATELOUPIA PINNATA
POINTED LYNX
HALICYSTIS OVALIS
-NULL-
HALOSACCION GLANDIFORME
SEA SAC
HETEROCHORDARIA ABIETINA
FIR NEEDLE
LAMINARIA PLATYMERIS
SEA GIRDLE OR TANGLE
LAMINARIA SACCHARINA
SUGAR WRACK
LAURENCIA SPECTABILIS
SEA LAUREL
LITHOTHAMNIUM SPECIES
RED ROCK CRUST
MACROCYSTIS INTEGRIFOLIA
KELP

MICROCLADIA COULTERI
DELICATE SEA LACE
PELVETIOPSIS LIMITATA
-NULL-
POLYNEURA PATISSIMA
CRISSCROSS NETWORK
POLYSIPHONIA COLLINSI
POLLY COLLINS
POLYSIPHONIA PACIFICA
POLLY PACIFIC
PORPHYRA LANCEOLATA
RED JABOT LAVER
PORPHYRA PURFORATA
RED LAVER
PRASIOLA MERIDIONALIS
-NULL-
PTILOTA FILICINA
RED WING
PTILOTA HYPNOIDES
-NULL-
RALFSIA PACIFICA
TAR SPOT
RHODOMELA LARIX
BLACK PINE
RHODYMENIA PALMATA
DULSE OR RED KALE
RHODYMENIA PERTUSA
RED EYELET SILK
SCYTOSIPHON LOMENTARIA
WHIP TUBE
SPONGOMORPHA COALITA
GREEN ROPE
ULVA FENESTRATA
-NULL-
ULVA LACTUCA
SEA LETTUCE
ULVA LINZA
GREEN STRING LETTUCE

TROPHIC LEVEL: (1) PRODUCER VASCULAR PLANTS

JAUMEA CARNOSA
JAUMEA
PHYLLOSPADIX SCOULERI
SCOULER'S SURFGASS
TANACETUM DOUGLASII
DUNE TANSY

TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES

ACMAEA DIGITALIS
LIMPET
ACMAEA FENESTRATA
LIMPET
ACMAEA LIMATULA
FILE LIMPET
ACMAEA MITRA
DUNCE-CAP LIMPET
ACMAEA Pelta
BROWN & WHITE SHIELD LIMPET
AMPITHOE HUMERALIS
-NULL-
CALLISTOCHITON CRASSICOSTATUS
CHITON
CRYPTOCHITON STELLERI
GUM BOOT CHITON
CYANOPLAX HARTWEGI
CHITON

KATHERINA TUNICATA
BLACK CHITON
LITTORINA PLANAXIS
PERIWINKLE
LITTORINA SCUTULINA
PERIWINKLE
LITTORINA SITKANA
PERIWINKLE
LUMBRINERIS ZONATA
WORM
MOPALIA CILIATA
CHITON
MOPALIA LIGNOSA
CHITON
OOONTOSYLLIS PHOSPHOREA
WORM
PARALUNIO ALASKENSIS
MIDGE
STRONGYLOCENTROTUS FRANCISCANU
SEA URCHIN
STRONGYLOCENTROTUS PURPURATUS
PURPLE SEA URCHIN

TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES

TONICELLA LINEATA
LINED CHITON

TROPHIC LEVEL: (3) CARNIVORE INVERTEBRATES

AEOLIDIA PAPILLOSA
NUDIBRANCH
AMBLOPUSA BOREALIS
ROVE BEETLE
ANISODORIS NOBILIS
SEA LEMON
CADLINA
NUDIBRANCH
CORAMBE PACIFICA
NUDIBRANCH
DIAULOTA DENSISSIMA
ROVE BEETLE
DIRONA ALBOLINEATA
NUDIBRANCH
LEPIDOZONA COOPERI
CHITON
LEPIDOZONA MERTENSI
CHITON
LIPAROCEPHALUS CORDICOLLIS
ROVE BEETLE
PISASTER GIGANTEUS
SEASTAR
PISASTER OCHRACEUS
SEASTAR
PLACIPHORELLA VELATA
CHITON
PYCNOGONUM STEARNSI
SEA SPIDER
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSTANGA PULCHRA
NUDIBRANCH
SOLASTER DOUSONI
SEASTAR
SOLASTER STIMSONI
SEASTAR
THAIS

HABITAT: PROTECTED ROCKY SURF

SNAIL

TROPHIC LEVEL: (3) CARNIVORE FISHES

ARTEDIUS LATERALIS
SMOOTHHEAD SCULPIN
ASCELICHTHYS RHODORUS
ROSLIP SCULPIN
HEMILEPIDOTUS HEMILEPIDOTUS
RED IRISH LORD
HEMILEPIDOTUS SPINOSIS
BROWN IRISH LORD
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS LAGOCEPHALUS
ROCK GREENLING
MYOXOCEPHALUS POLYACANTHOCEPHA
GREAT SCULPIN
PAROPHYRUS VETULUS
ENGLISH SOLE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SEBASTES MELANOPS
BLACK ROCKFISH
XIPHISTER ATROPURPUREUS
BLACK PRICKLEBACK

TROPHIC LEVEL: (3) CARNIVORE BIRDS

AECHEMOPHORUS OCCIDENTALIS
WESTERN GREBE
ARDEA HERODIAS
GREAT BLUE HERON
BUCEPHALA ALBEOLA
BUFFLEHEAD
BUCEPHALA CLANGULA
COMMON GOLDENEYE
CEPPHUS COLUMBA
PIGEON GUILLEMOT
CERORHINCA MONOCERATA
RHINOCEROS AUKLET
GAVIA ARCTICA
ARCTIC LOON
HAEMATOPUS BACHMANI
BLACK OYSTERCATCHER
HISTRIONICUS HISTRIONICUS
HARLEQUIN DUCK
LARUS ARGENTATUS
HERRING GULL
LARUS CALIFORNICUS
CALIFORNIA GULL
LARUS CANUS
MEW GULL
LARUS HEERMANNI
HEERMAN'S GULL
LUNDA CIRRHADA
TUFTED PUFFIN
MEGACERYLE ALCYON
BELTED KINGFISHER
MELANITTA DEGLANDI
WHITE-WINGED SCOTER
MELANITTA PERSPICILLATA
SURF SCOTER
PELECANUS OCCIDENTALIS
BROWN PELICAN
PHALACROCORAX AURITIS

DOUBLE-CRESTED CORMORANT
PHALACROCORAX PELAGICUS
PELAGIC CORMORANT
PHALACROCORAX PENICILLATUS
BRANDT'S CORMORANT
RISSA TRIDACTYLA
BLACK-LEGGED KITTIWAKE
URIA AALGE
COMMON MURRE

TROPHIC LEVEL: (3) CARNIVORE MAMMALS

ENHYDRA LUTRIS
SEA OTTER
EUMETOPIAS JUBATA
STELLER'S SEA LION
LUTRA CANADENSIS
RIVER OTTER
MIROUNGA ANGSTIROSTRIS
ELEPHANT SEAL
MUSTELA VISON
MINK
PHOCA VITULINA
HARBOR SEAL
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRIVORE INVERTEBRATES

AMPHIODIA OCCIDENTALIS
BRITTLE STAR
AMPHITRITE ROBUSTA
POLYCHAETE WORM
CUCUMARIA MINIATA
SEA CUCUMBER
EUDISTYLIA POLYMORPHA
SABELLID
EUDISTYLIA VANCOUVERI
SABELLID
EUPOLYMNIA HETEROBRANCHIA
TEREBELLID WORM
IDOTEA SCHMITTI
ISOPOD
IDOTEA UROTOMA
PILL BUG
LIGIA PALLASI
ROCK LOUSE
MELITA PALMATA
BEACH HOPPER
NEOAMPHITRITE ROBUSTUS
TEREBELLID WORM
OPHIOPHOLIS ACULEATA
BRITTLE STAR
ORCHESTIA TRASKIANA
LESSER BEACH HOPPER
THELEPUS CRISPUS
WORM
TIGRIOPUS CALIFORNICUS
BUG

TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES

MOPALIA MUSCOSA
CHITON

TROPHIC LEVEL: (5) OMNIVORE FISHES

ANOPLARCHUS PURPURESCENS
HIGH COCKSCOMB
XIPHISTER MUCOSUS
ROCK PRICKLEBACK

TROPHIC LEVEL: (5) OMNIVORE BIRDS

AYTHYA MARILA
GREATER SCAUP
CORVUS BRACHYRHYNCHOS
COMMON CROW
CORVUS CORVAX
COMMON RAVEN

TROPHIC LEVEL: (5) OMNIVORE MAMMALS

PROCYON LOTOR
RACCOON

TROPHIC LEVEL: (6) PARASITE NON-VASCULAR PLANTS

JANCZEWSKIA GARDNERI
PARASITIC SEA LAUREL

TROPHIC LEVEL: (6) PARASITE INVERTEBRATES

ARCTONOE PULCHRA
SCALE WORM
ARCTONOE VITTATA
SCALE WORM
FABIA SUBQUADRATA
PEA CRAB
PINNIXA TUBICOLA
PEA CRAB
SYNDESMIS FRANCISCANUS
WORM

TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES

BALANUS CARIOSUS
BARNACLE
BALANUS GLANDULA
BARNACLE
BOCCARDIA PROBOSCIDEA
SPINOID WORM
BEGULA PACIFICA
BRYOZOAN
HALICHONDRIA PANICEA
CRUMB OF BREAD SPONGE
HENRICIA LEVIUSCULA
RED SEASTAR
HINNITES GIGANTEUS
ROCK OYSTER
HIPPODIPLOSIA INSCULPTA
BRYOZOAN
LEPRALIA BILABIATA
BRYOZOAN
MEMBRANIPORA MEMBRANACEA
BRYOZOAN
MEMBRANIPORA SERRILAMELLA
BRYOZOAN
PEDICELLINA CERNUA
ENTOPROCT
PHIDOLOPORA PACIFICA
BRYOZOAN

HABITAT: PROTECTED ROCKY SURF

PLOCAMIA KARYKINA
RED SPONGE
SERPULA VEMICULARIS
WORM

SPIRORBIS
WORM

TEREBRATALIA TRANSVERSA
BRACHIOPOD

TRICELLARIA OCCIDENTALIS
BROZOAN

XESTOSPONGIA VANILLA
SPONGE

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

HEMIGRAPUS MUDUS
PURPLE SHORE CRAB
PACHYCHELES RUDIS

PORCELAIN CRAB

PAGURUS GRANOSIMANUS

HERMIT CRAB

PAGURUS HEMPHILLI

HERMIT CRAB

PAGURUS SAMUELIS

HERMIT CRAB

PETROLISTHES CINCIPIES

PORCELAIN CRAB

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

HALIAEETUS LEUCOCEPHALUS

BALD EAGLE

LARUS GLAUCESCENS

GLAUCOUS-WINGED GULL

LARUS OCCIDENTALIS

WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

ALLORCHESTES ANGUSTUS

-NULL-

AMPHIPORUS BIMACULATUS

RIBBON WORM

ANTHOPELURA ELEGANTISSIMA

AGGREGATED ANEMONE

ANTHOPELURA XANTHOGRAMMICA

GIANT GREEN ANEMONE

CANCER ANTENNARIUS

CRAB

CANCER MAGISTER

DUNGENESS CRAB

CANCER PRODUCTUS

CRAB

CEPHALOTHRIX LINEARIS

NEMERTEAN

CERATOSTOMA

FOLIATUM MUREX

EMPLECTONEMA GRACILE

RIBBON WORM

EPIACTIS PROLIFERA

ANEMONE

GLYCERA AMERICANA

WORM

HALOSYDNA BREVISETOSA

SCALE WORM

HERMISSENDA CRASSICORNIS

NUDIBRANCH

MICRURA VERRILLI

NEMERTEAN

PARAMERTES PEREGRINA

NEMERTEAN

PHOXICHILIDIUM FEMORATUM

SEA SPIDER

SPIRONTOCARIS BREVIROSTRIS

BROKEN BACK SHRIMP

SPIRONTOCARIS CRISTATA

BROKEN BACK SHRIMP

SPIRONTOCARIS PALUDICOLA

BROKEN BACK SHRIMP

SPIRONTOCARIS PRIONATA

BROKEN BACK SHRIMP

TEALIA CRASSICORNIS

ANEMONE

THALASSOTRECHUS BARBARAE NIGRI

GROUND BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

APODICTHYS FLAVIDUS

PENPOINT GUNNEL

CHIROLOPHIS NUGATOR

MOSSHEAD WAR-BONNET

CLINOCOTTUS ACUTICEPS

SHARPNOSE SCULPIN

CLINOCOTTUS EMBRYUM

CALICO SCULPIN

CLINOCOTTUS GLOBICEPS

MOSSHEAD SCULPIN

CYMATOGASTER AGGREGATA

SHINER PERCH

GOBIESOX MAEANDRICUS

NORTHERN CLINGFISH

LEPTOCOTTUS ARMATUS

PACIFIC STAGHORN SCULPIN

LIPARIS FLORAE

TIDEPool SNAILFISH

OLIGOCOTTUS MACULOSUS

TIDEPool SCULPIN

OLIGOCOTTUS SNYDERI

FLUFFY SCULPIN

PHOLIS LAETA

CRESCENT GUNNEL

RHACOCILUS VACCA

PILE PERCH

SPIRINCHUS STARSKI

NIGHT SMELT

XERERPES FUCORUM

ROCKWEED GUNNEL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

ACTITIS MACULARIA

SPOTTED SANDPIPER

APHRIZA VIRGATA

SURFBIRD

ARENARIA INTERPRES

RUDDY TURNSTONE

ARENARIA MELANOCEPHALA

BLACK TURNSTONE

CALIDRIS ALPINA

DUNLIN

CALIDRIS PTILOCNEMIS

ROCK SANDPIPER

HETEROSCELUS INCANUM

WANDERING TATTLER

NUMENIUS PHAEOPUS

WHIMBREL

PLUVIALIS SQUATAROLA

BLACK-BELLIED PLOVER

TRINGA MELANOLEUCA

GREATER YELLOWLEGS

TROPHIC LEVEL: (9) UNKNOWN
INVERTEBRATES

ANAETIDES MEDIPAPILLATA

PADDLE WORM

ARABELLA IRICOLOR

WORM

ASTRAEA GIBBEROSA

SNAIL

CREPIDULA ADUNCA

HORNED SLIPPER SHELL

CRYPTOLITHODES SITCHENSIS

UMBRELLA-BACKED CRAB

DODECACERIA FISTULICOLA

CIRRATULID WORM

HAPALOGASTER CAVICAUDA

CRAB

LEPTASTERIA HEXACTIS

SEASTAR

LEPTASTERIA PUSILLA

SEASTAR

MIMULUS FOLIATUS

CRAB

DEDIGNATHUS INERMIS

CRAB

PATIRIA MINIATA

SEA BAT

PLATYNEREIS AGASSIZI

NEREID WORM

PODARKE PUGGETTENSIS

POLYCHAETE

PUGETTIA PRODUCTA

KELP CRAB

SCYRA ACUTIFRONS

MASKING CRAB

TEGULA FUNEBRALIS

BLACK TURBAN SNAIL

HABITAT: HEADLANDS AND ROCKY ISLANDS

TROPHIC LEVEL: (-)

VASCULAR PLANTS

ANTHOXANTHUM ODORATUM
SWEET VERNALGRASS
HOLCUS LANATUS
COMMON VELVET-GRASS

TROPHIC LEVEL: (1) PRODUCER

VASCULAR PLANTS

AIRA PRAECOX
LITTLE HAIRGRASS
ALNUS RUBRA
RED ALDER
ANGELICA LUCIDA
SEA-WATCH
ARCTOSTAPHYLOS COLUMBIANA
BRISTLY MANZINITA
ARCTOSTAPHYLOS UVA-URSI
KINNIKINNIC
ARMERIA MERITIMA
THRIFT
BACCHARIS PILULARIS
CHAPARRAL BROOM
BLECHNUM SPICANI
DEER FERN
CALAMAGROSTIS NUTKAENSIS
REEDGRASS
CASTILLEJA LITORALIS
PACIFIC PAINTBRUSH
CEANOOTHUS THYRSIFLORUS
BLUE BLOSSOM
CERASTIUM ARVENSE
FIELD CHICKWEED
CYTISUS SCOPARIUS
SCOTCH BROOM
DANTHONIA CALIFORNICA
OATGRASS
DESCHAMPSIA CAESPITOSA
TUFTED HAIRGRASS
DESCHAMPSIA LONGIFLORA
HAIRGRASS
DIGITALIS PURPUREA
FOXGLOVE
EMPETRUM NIGRUM
CROWBERRY
ERIGERON GLAUCUS
SEASIDE DOCK
FESTUCA MYUROS
RAT-TAIL FESCUE
FESTUCA RUBRA
RED FESCUE
FRAGARIA CHILOENSIS
COASTAL STRAWBERRY
GALIUM NUTTALII
NUTTAL'S BEDSTRAW
GAULTHERIA SHALLON
SALAL
GNAPHALIUM CHILENSE
COTTON-BATTING PLANT
GRINDELIA INTEGRIFOLIA VAR. MA
PUGET SOUND GUMWEED
HERACLEUM LANATUM
COW-PARSNIP

HOLODISCUS DISCOLOR
OCEAN-SPRAY
HYPOCHAERIS RADICATA
GOSMOR
LASTHENIA CHRYSOSTOMA
LASTHENIA
LASTHENIA MINOR VAR. MARITIMA
HAIRY LASTHENIA
LATHYRUS LITTORALIS
BEACH PEA-VINE
LEONTODON NUDICAULIS
BRISTLY HAWKBIT
LILAEOPSIS OCCIDENTALIS
LILAEOPSIS
LONICERA INVOLUCRATA
BLACK TWINBERRY
LOTUS FORMOSISSIMUS
DEERVETCH, SEASIDE LOTUS
LUPINUS ARBOREUS
TREE LUPINE
LUPINUS VARICOLOR
TWO-COLOR LUPINE
MICROSERIS BIGILOVII
COAST MICROSERIS
MYRICA GALE
SWEET GALE
PINUS CONTORTA
LOGEPOLE PINE, SHORE PINE
PLANTAGO HIRTELLA
TALL COAST PLANTAIN
PLANTAGO LANCEOLATA
BUCKHORN PLANTAIN
POA PACHYPHOLIS
SEACLIFF BLUEGRASS
POLYPODIUM GLYCYRRHIZA
LICORICE FERN
POLYSTICHUM MUNITUM
SWORDFERN
PSEUDOTSUGA MENZIESII
DOUGLAS FIR
PTERIDIUM AQUILINUM
WESTERN BRACKEN FERN
RANUNCULUS FLAMMULA
SMALL CREEPING BUTTERCUP
RHAMNUS PURSHIANA
CASCARA
RHODODENDRON MACROPHYLLUM
WESTERN RHODODENDRON
RHUS DIVERSILOBA
POISON OAK
ROMANZOFFIA TRACYI
TRACY'S MISTMAIDEN
RUBUS SPECTABILIS
SALMONBERRY
RUBUS URSINUS
DOUGLASBERRY
RUMEX MARITIMUS
SEASIDE DOCK
SAGINA CRASSICAULIS
STICK-STEMMED PEARLWORT
SALIX HOOKERIANA
COAST WILLOW
SEDUM LANCEOLATUM VAR. NESIOTI
LANCE-LEAVED STONECROP
SIDALCEA HIRTIPES
HAIRY-STEMMED CHECKER-MALLOW
STACHYS RIGIDA
HEDGE NETTLE
TANACETUM DOUGLASII
DUNE TANSY

THUJA PLICATA
WESTERN RED CEDAR
ULEX EUROPAEUS
GORSE
VACCINIUM OVATUM
EVERGREEN HUCKLEBERRY
VACCINIUM PARVIFOLIUM
RED HUCKLEBERRY
VERATRUM VIRIDE
FALSE HELLEBORE

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

PARACLUNIO ALASKENSIS
MIDGE

TROPHIC LEVEL: (2) HERBIVORE
BIRDS

BONASA UMBELLUS
RUFFED GROUSE
CARDUELIS PINUS
PINE SISKIN
CARDULIS TRISTIS
AMERICAN GOLDFINCH
CARPODACUS MEXICANUS
HOUSE FINCH
CARPODACUS PURPUREUS
PURPLE FINCH
COLUMBA FASCIATA
BAND-TAILED PIGEON
DENDRAGAPUS OBSCURUS
BLUE GROUSE
HESPERIPHONA VESPERTINA
EVENING GROSBEAK
JUNCO HYEMALIS
DARK-EYED JUNCO
LOPHORTYX CALIFORNICUS
CALIFORNIA QUAIL
LOXIA CURVIROSTRA
RED CROSSBILL
MELOSPIZA MELODIA
SONG SPARROW
MELOTHRUS ATER
BROWN-HEADED COBIRD
OREORTYX PICTUS
MOUNTAIN QUAIL
PASSERELLA ILIACA
FOX SPARROW
PHEUCTICUS MELANOCEPHALUS
BLACK-HEADED GROSBEAK
PIPILO ERYTHROPHthalmus
RUFIOUS-SIDED TOWHEE
SELASPHORUS RUFUS
RUFIOUS HUMMINGBIRD
SPIZELLA PASSERINA
CHIPPING SPARROW
ZENAIDA MACROURA
MOURNING DOVE
ZONOTRICHIA ATRICAPILLA
GOLDEN-CROWNED SPARROW
ZONOTRICHIA LEUCOPHRYS
WHITE-CROWNED SPARROW

TROPHIC LEVEL: (2) HERBIVORE
MAMMALS

MICROTUS LONGICAUDUS
LONG-TAILED VOLE

HABITAT: HEADLANDS AND ROCKY ISLANDS

MICROTUS OREGONI
OREGON VOLE
THOMOMYS MONTICOLA
MOUNTAIN POCKET GOPHER

TROPHIC LEVEL: (3) CARNIVORE
HERPETOFAUNA

THAMNOPHIS ORDINOIDES
NORTHWESTERN GARTER SNAKE
THAMNOPHIS SIRTALIS
COMMON GARTER SNAKE

TROPHIC LEVEL: (-)
BIRDS

PANDION HALIAETUS
OSPREY

TROPHIC LEVEL: (3) CARNIVORE
BIRDS

ACCIPITER COOPERII
COOPER'S HAWK
ACCIPITER STRIATUS
SHARP-SHINNED HAWK
AEGOLIUS ACADICUS
SAW-WHET OWL
ASIO OTUS
LONG-EARED OWL
BUBO VIRGINIANUS
GREAT HORNED OWL
BUTEO JAMAICENSIS
RED-TAILED HAWK
CEPPHUS COLUMBA
PIGEON GUILLEMOT
CERORHINCA MONOCERATA
RHINOCEROS AUKLET
FALCO PEREGRINUS
PEREGRINE FALCON
GLAUCIDIOM GNOMA
PYGMY OWL
LUNDA CIRRHATA
TUFTED PUFFIN
OCEANODROMA FURCATA
FORK-TAILED STORM PETREL
OCEANODROMA LEUCORHOA
LEACH'S STORM PETREL
OTUS ASIO
SCREECH OWL
PHALOCROCORAX AURITUS
DOUBLE-CRESTED CORMORANT
PHALOCROCORAX PELAGICUS
PELAGIC CORMORANT
PHALOCROCORAX PENICILLATUS
BRANDT'S CORMORANT
PTYCHORAMPHUS ALEUTICUS
CASSIN'S AUKLET
TYTO ALBA
BARN OWL
URIA AALGE
COMMON MURRE

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

CANIS LATRANS
COYOTE
FELIS CONCOLOR
MOUNTAIN LION

LYNX RUFUS
BOBCAT
MUSTELA ERMINEA
SHORT-TAILED WEASEL
SPILOGALE PUTORIUS
SPOTTED SKUNK
UROCYON CINEROARGENTEUS
GRAY FOX
VULPES FULVA
RED FOX

TROPHIC LEVEL: (5) OMNIVORE
BIRDS

BOMBYCILLA CEDRORUM
CEDAR WAXWING
CORVUS BRACHYRHYNCHOS
COMMON CROW
CORVUS CORVAX
COMMON RAVEN
CYANOCITTA STELLERI
STELLER'S JAY
PERIOSOREUS CANADENSIS
GRAY JAY
PIRANGA LUDOVICIANA
WESTERN Tanager
STURNUS VULGARIS
STARLING
TURDUS MIGRATORIUS
AMERICAN ROBIN

TROPHIC LEVEL: (5) OMNIVORE
MAMMALS

DIDELPHIS MARSUPIALIS
COMMON OPPOSUM
EURACTOS AMERICANUS
BLACK BEAR
MEPHITIS MEPHITIS
STRIPED SKUNK
PEROMYSCUS MANICULATUS
DEER MOUSE
PROCYON LOTOR
RACCOON
ZAPUS TRINOTATUS
PACIFIC JUMPING MOUSE

TROPHIC LEVEL: (6) PARASITE
VASCULAR PLANTS

BOSCHNIAKIA HOOKERI
SMALL GROUND-CONE

TROPHIC LEVEL: (8) SCAVENGER
BIRDS

CATHARTES AURA
TURKEY VULTURE
HALIAETUS LEUCOCEPHALIS
BALD EAGLE
LARUS GLAUCESSCENS
GLAUCOUS-WINGED GULL
LARUS OCCIDENTALIS
WESTERN GULL

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

AMBLOPUSA BOREALIS
ROVE BEETLE

DIAULOTA DENSISSIMA
ROVE BEETLE
LIPAROCEPHALUS CORDICOLLIS
ROVE BEETLE
THALASSOTRECHUS BARBARAE NIGRI
GROUND BEETLE

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - HERPETOFAUNA

AMBYSTOMA GRACILE
BROWN SALAMANDER
BUFO BOREAS
WESTERN TOAD

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - HERPETOFAUNA

GERRHONOTUS COERULEUS
NORTHERN ALLIGATOR LIZARD
HYLA REGILLA
PACIFIC TREEFROG
PLETHODON DUNNI
DUNNS SALAMANDER
RHYACOTRITON OLYMPICUS
OLYMPIC SALAMANDER
TARICHA GRANULOSA
ROUGH-SKINNED NEWT

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - BIRDS

CATHARUS GUTTATUS
HERMIT THRUSH
CATHARUS USTULATUS
SWAINSON'S THRUSH
CERTHIA FAMILIARIS
BROWN CREEPER
CHAETURA VAUXI
VAUX'S SWIFT
CHAMAEA FASCIATA
WRENTIT
CHORDEILLES MINOR
COMMON NIGHTHAWK
COLAPTES AURATUS
COMMON FLICKER
CONTOPUS SORDIDULUS
WESTERN WOOD PEWEE
CYPSELOIDES NIGER
BLACK SWIFT
DENDROICA CORONATA
YELLOW-RUMPED WARBLER
DENDROICA NIGRESCENS
BLACK-THROATED GRAY WARBLER
DENDROICA OCCIDENTALIS
HERMIT WARBLER
DENDROICA PETECHIA
YELLOW WARBLER
DENDROICA TOMSENDI
TOWNSEND'S WARBLER
DRYOCOPUS PILEATUS
PILEATED WOODPECKER
EMPIDONAX DIFFICILIS
WESTERN FLYCATCHER
EMPIDONAX HAMMONDII
HAMMOND'S FLYCATCHER
EMPIDONAX OBERHOLSERI
DUSKY FLYCATCHER
EMPIDONAX TRAILLII
WILLOW FLYCATCHER

HABITAT: HEADLANDS AND ROCKY ISLANDS

HIRUNDO RUSTICA
BARN SWALLOW
IRIDOPROCNE BICOLOR
TREE SWALLOW
IXOREUS NAEVIUS
VARIED THRUSH
MYADESTES TOWNSENDI
TOWNSEND'S SOLITAIRE
NUTTALLORNIS BOREALIS
OLIVE-SIDED FLYCATCHER
OPORORNIS TOLMIEI
MCGILLIVRAY'S WARBLER
PARUS ATRICAPILLUS
BLACK-CAPPED CHICKADEE
PARUS RUFESCENS
CHESTNUT-BACKED CHICKADEE
PETROCHELIDON PYRRHONOTA
CLIFF SWALLOW
PICOIDES PUBESCENS
DOWNY WOODPECKER
PICOIDES VILLOSUS
HAIRY WOODPECKER
PROGNE SUBIS
PURPLE MARTIN
PSALTRIPARUS MINIMUS
BUSHTIT
REGULUS CALENDULA
RUBY-CROWNED KINGLET
REGULUS SATRAPA
GOLDEN-CROWNED KINGLET
SITTA CANADENSIS
RED-BRESTED NUTHATCH
SITTA CAROLINENSIS
WHITE-BRESTED NUTHATCH
SPHYRAPICUS VARIUS
YELLOW-BELLIED SAPSUCKER
STELGIDOPTERYX RUFICOLLIS
ROUGH-WINGED SWALLOW
TACHYCNETA THALASSINA
VIOLET-GREEN SWALLOW
THRYOMANES BEWICKII
BEWICK'S WREN
TROGLODYTES AEDON
HOUSE WREN
TROGLODYTES TROGLODYTES
WINTER WREN
VERMIVORA CELATA
ORANGE-CROWNED WARBLER
VERMIVORA RUFICAPILLA
NASHVILLE WARBLER
VIREO GILVUS
WARBLING VIREO
VIREO HUTTONI
HUTTON'S VIREO
VIREO SOLITARIUS
SOLITARY VIREO
WILSONIA PUSILLA
WILSON'S WARBLER

SOREX VAGRANS
VAGRANT SHREW

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - MAMMALS

EPTESICUS FUSCUS
BIG BROWN BAT
MYOTIS LICIFUGUS
LITTLE BROWN MYOTIS
NEUROTRICHUS GIBBSII
SHREW-MOLE
SCAPANUS TOWNSENDII
TOWNSEND'S MOLE

HABITAT: HEADLANDS AND ROCKY ISLANDS

TROPHIC LEVEL: (1) PRODUCER
NON-VASCULAR PLANTS

ASTERIONELLA FORMOSA
DIATOM
ASTERIONELLA JAPONICA
DIATOM
ASTERIONELLA KARIANA
DIATOM
BACTERIASTRUM DELICATULUM
DIATOM
CERATIUM
DINOFAGELLATE
CHAETOCEROS COMPRESSUS
DIATOM
CHAETOCEROS CONVOLUTUS
DIATOM
CHAETOCEROS RADICANS
DIATOM
COCCOLITHOPHORES
COCCOLITHS
DACTYLIOSOLEN MEDITERRANEUS
DIATOM
FRAGILARIA
DIATOM
GONYAULAX
DINOFAGELLATE
LEPTOCYLINDRICUS DANICUS
DIATOM
MELOSIRA ISLANDICA
DIATOM
OTHER FLAGELLATES
FLAGELLATES
PERIDINIUM
DINOFAGELLATE
RHIZOSOLENIA ALATA
DIATOM
RHIZOSOLENIA DELICATULA
DIATOM
RHIZOSOLENIA FRAGILISSIMA
DIATOM
SYNEDRA ULNA
DIATOM
THALASSIONEMA NITZSCHIOIDES
DIATOM

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

ACARTIA CLAUSI
COPEPOD
ACARTIA DANAE
COPEPOD
ACARTIA LONGIREMIS
COPEPOD
ACARTIA NEGLIGENS
COPEPOD
AETIDEOPSIS PACIFICA
COPEPOD
AETIDEUS ARMATUS
COPEPOD
AETIDEUS PACIFICUS
COPEPOD

AMALLOTHRIX VALIDA
COPEPOD
AMALLOTHRIX VORAK
COPEPOD
ARIETELLUS PLUMIFER
COPEPOD
BATHYCALANUS BRADYI
COPEPOD
BOREOMYSIS
COPEPOD
BOREOMYSIS ROSTRATA
COPEPOD
CALANUS CRISTATUS
COPEPOD
CALANUS FINMARCHICUS
COPEPOD
CALANUS PLUMCHRUS
COPEPOD
CALANUS TENUICORNIS
COPEPOD
CALOCALANUS STYLIREMIS
COPEPOD
CANDACIA BIPINNATA
COPEPOD
CAVOLINA UNCINATA
PTEROPOD
CENTRAUGAPTILUS PORCELLUS
COPEPOD
CENTROPAGES MCMURRICHI
COPEPOD
CHIRUNDINA STREETSII
COPEPOD
CLAUSOCALANUS ARCUICORNIS
COPEPOD
CLAUSOCALANUS PERGENS
COPEPOD
CLIO BALANTIUM
PTEROPOD
CLIONE LIMACINA
PTEROPOD
COROLLA SPECTABILIS
PTEROPOD
CORYCAEUS
COPEPOD
CTENOCALANUS VANUS
COPEPOD
EPILABIDOCERA AMPHITRITES
COPEPOD
EUCALANUS ATTENUATUS
COPEPOD
EUCALANUS BUNGII
COPEPOD
EUCHAETA SPINOSA
COPEPOD
EUCHIRELLA CURTICAUDA
COPEPOD
EUCOPIA
COPEPOD
EVADNE NORMANNI
CLADOCERAN
GAETANUS SECUNDUS
COPEPOD
GAETANUS SIMPLEX
COPEPOD
GADIUS BREVISPINUS
COPEPOD
GADIUS VARIABILIS
COPEPOD
GAUSSIA PRINCEPS
COPEPOD

HABITAT: EUPHOTIC PELAGIC

GIGANTOCYPRIS AGASSIZII	UNDEUCHAETA MAJOR	GONATUS ANONYCHUS
OSTRACOD	COPEPOD	SQUID
GNATHOPHAUSIA GIGAS	UNDEUCHAETA PLUMOSA	GONATUS FABRICII
COPEPOD	COPEPOD	SQUID
GNATHOPHAUSIA INGENS		GONATUS MAGISTER
COPEPOD		SQUID
HALOPTILUS PSEUDOXYCEPHALUS	TROPHIC LEVEL: (2) HERBIVORE	HALICREAS MINIMUM
COPEPOD	<u>BIRDS</u>	JELLYFISH
HETERORHABDUS TANNERI	BRANTA NIGRICANS	HALISTAURA CELLULARIA
COPEPOD	BLACK BRANT	JELLYFISH
HETEROSTYLITES LONGICORNIS		HISTIOTEUTHIS HETEROPSIS
COPEPOD	TROPHIC LEVEL: (3) CARNIVORE	SQUID
HETEROSTYLITES MAJOR	<u>INVERTEBRATES</u>	LENSIA CONOIDEA
COPEPOD		JELLYFISH
LUCICUTIA BICORNUTA	ABRALIOPSIS FELIS	LIMACINA HELACINA
COPEPOD	SQUID	PTEROPOD
LUCICUTIA FLAVICORNIS	AEGINA CITREA	LOLIGO OPALESCENS
COPEPOD	JELLYFISH	SQUID
METRIDEA LUCENS	AEGINURA GRIMALDII	MOROTEUTHIS ROBUSTA
COPEPOD	JELLYFISH	SQUID
METRIDIA CURTICAUDA	AQUOREA	MUGGIAEA ATLANTICA
COPEPOD	JELLYFISH	JELLYFISH
MICROCALANUS PYGMAEUS	AGLANTHA DIGITALE	NANOMIA CARA
COPEPOD	JELLYFISH	JELLYFISH
MICROSETELLA	ATOLLA VANHOEFFENI	OCTOPOTEUTHIS SICULA
COPEPOD	JELLYFISH	SQUID
MIXTOCALANUS ROBUSTUS	ATOLLA WYVELLEI	ONYCHOTEUTHIS BANKSI
COPEPOD	JELLYFISH	SQUID
OITHONA	AURELIA LABIATA	PANTACHOGON HAECKELI
COPEPOD	JELLYFISH	JELLYFISH
ONCAEA CONIFERA	BARGMANNIA	PARAPHYLLINA RANSONI
COPEPOD	JELLYFISH	JELLYFISH
PARACALANUS PARVUS	BEROE CUCUMIS	PERIPHYLLA PERIPHYLLA
COPEPOD	COMB JELLY	JELLYFISH
PAREUCHAETA BIROSTRATA	BOTRYNEMA BRUCEI	PHYSOPHORA HYDROSTATICA
COPEPOD	JELLYFISH	JELLYFISH
PAREUCHAETA JAPONICA	CALYCOPSIS NEMATOPHORA	PLEUROBRACHIA PILEUS
COPEPOD	JELLYFISH	COMB JELLY
PHAENNA SPINIFERA	CARANARIA JAPONICA	PRAYA DUBIA
COPEPOD	HETEROPOD	JELLYFISH
PLEUROMAMMA BOREALIS	CHELOPHYES APPENDICULATA	PRAYA RETICULATA
COPEPOD	JELLYFISH	JELLYFISH
PLEUROMAMMA SCUTULLATA	CHELOPHYES MULTIDENTATA	PTEROTRACHEA SCUTUTA
COPEPOD	JELLYFISH	HETEROPOD
PODON LEUCKARTI	CHIROTEUTHIS VERANYI	SARSIA PRINCEPS
CLADOCERAN	SQUID	JELLYFISH
PSEUDOCALANUS MINUTUS	CHUNIPHYES MOSERAE	SARSIA TUBULOSA
COPEPOD	JELLYFISH	JELLYFISH
PSEUDOCHERELLA POLYSPINA	COLOBONEMA SERVICEUM	SOLMISSUS INCISA
COPEPOD	JELLYFISH	JELLYFISH
RACOVITZANUS FORRECTA	CRANCHIA SCABRA	SOLMISSUS MARSHALLI
COPEPOD	SQUID	JELLYFISH
RACOVITZANUS PACIFICA	CROSSOTA ALBA	SULCULEOLARIA QUADRIVALVIS
COPEPOD	JELLYFISH	JELLYFISH
RHINCALANUS NASUTUS	CROSSOTA PEDUNCULATA	TAONIUS PALVO
COPEPOD	JELLYFISH	SQUID
SCAPHOCALANUS MEDIUS	CROSSOTA RUFOBRUNNEA	VAMPYROTEUTHIS INFERNALIS
COPEPOD	JELLYFISH	SQUID
SCAPHOCALANUS MINUTUS	CUNINA OCTONARIA	VELELLA VELELLA
COPEPOD	JELLYFISH	JELLYFISH
SCAPHOCALANUS SUBELONGATUS	CYANEA	VOGTIA SPINOSA
COPEPOD	JELLYFISH	JELLYFISH
SCOLECITHRICELLA MINOR	EUPHYSORA FURCATA	
COPEPOD	JELLYFISH	TROPHIC LEVEL: (3) CARNIVORE
SCOTTOCALANUS SEDATUS	EUTONIA INDICANS	<u>FISHES</u>
COPEPOD	JELLYFISH	
TORTANIS DISCAUDATUS	GALITEUTHIS ARMATA	ALOPIAS VULPINUS
COPEPOD	SQUID	THRESHER SHARK
UNDEUCHAETA INTERMEDIA	GONATOPSIS BOREALIS	BRACHYISTIUS FRENATUS
COPEPOD	SQUID	KELP PERCH

HABITAT: EUPHOTIC PELAGIC

EPTATRETUS DEANI
 BLACK HAGFISH
 EPTATRETUS STOUTI
 PACIFIC HAGFISH
 GADUS MACROCEPHALUS
 PACIFIC COD
 GALEORHINUS ZYOPTERUS
 SOUPFIN SHARK
 HEXANCHUS GRISEUS
 SIXGILL SHARK
 HYDROLAGUS COLLIEI
 RATFISH
 LAMNA DITROPSIS
 SALMON SHARK
 MERLUCCIIUS PRODUCTUS
 PACIFIC HAKE
 MARONE SAXATILIS
 STRIPED BASS
 NOTORHYNCHUS MACULATUS
 SPOTTED COWSHARK OR SEVENGILL
 ONCORHYNCHUS GORBUSCHA
 PINK SALMON
 ONCORHYNCHUS KETA
 CHUM SALMON
 ONCORHYNCHUS KISUTCH
 COHO SALMON
 ONCORHYNCHUS TSHAWYTSCHA
 CHINOOK SALMON
 PRIONACE GLAUCA
 BLUE SHARK
 RAJA KINCAIDI
 BLACK SKATE
 RAJA RHINA
 LONGNOSE SKATE
 RAJA STELLULATA
 STARRY SKATE
 SALMO CLARKI
 CUTTHROAT TROUT
 SALMO GAIRODARI
 STEELHEAD TROUT
 SALVALINUS MALMA
 DOLLY VARDEN
 SEBASTES ALUTUS
 PACIFIC OCEANPERCH
 SEBASTES CRAMERI
 BLACKMOUTH ROCKFISH OR DARKBLOOD
 SEBASTES DIPLOPROA
 SPLITNOSE ROCKFISH
 SEBASTES FLAVIDUS
 YELLOWTAIL ROCKFISH
 SEBASTES PINNEGER
 CANARY ROCKFISH
 SEBASTOLOBUS ALASCANUS
 SHORTSPINE ROCKFISH
 SOMNIOSUS PACIFICUS
 PACIFIC SLEEPER SHARK
 SQUALIS ACANTHIAS
 SPINY DOGFISH
 THERAGRA CHALCOGRAMMA
 WALLEYE POLLOCK
 TORPEDO CALIFORNICA
 PACIFIC ELECTRIC RAY
 TRIAKIS SEMIFASCIATA
 LEOPARD SHARK

TROPHIC LEVEL: (-)
BIRDS

CEPPHUS COLUMBRA
 PIGEON GUILLEMOT

STERNA PARADISAEA
 ARCTIC TERN
 TROPHIC LEVEL: (3) CARNIVORE
BIRDS

AECHEMOPHORUS OCCIDENTALIS
 WESTERN GREBE
 BRACHYRAMPHUS MARMORATUM
 MARBELED MURRELET
 CERORHINCA MONOCERATA
 RHINOCEROS AUKLET
 CLANGULA HYMALIS
 OLDSQUAW
 DICMEDEA NIGRIPES
 BLACK-FOOTED ALBATROSS
 FULMARIS GLACIALIS
 NORTHERN FULMAR
 GAVIA ARCTICA
 ARCTIC LOON
 GAVIA IMMER
 COMMON LOON
 GAVIA STELLATA
 RED-THROATED LOON
 HISTRIONICUS HISTRIONICUS
 HARLEQUIN DUCK
 LARUS ARGENTATUS
 HERRING GULL
 LARUS CALIFORNICUS
 CALIFORNIA GULL
 LARUS CANUS
 MEW GULL
 LARUS DELAWARENSIS
 RING-BILLED GULL
 LARUS GLAUCESCENS
 GLAUCCOUS-WINGED GULL
 LARUS HEERMANNI
 HEERMANN'S GULL
 LARUS OCCIDENTALIS
 WESTERN GULL
 LARUS PHILADELPHIA
 BONAPARTE'S GULL
 LARUS THAYERI
 THAYERS GULL
 LOBIPES LOBATUS
 NORTHERN PHALAROPE
 LUNDRA CIRRHATA
 TUFTED PUFFIN
 MELANITTA DEGLANDI
 WHITE-WINGED SCOTER
 MELANITTA NIGRA
 BLACK SCOTER
 MELANITTA PERSPICILLATA
 SURF SCOTER
 MERGUS SERRATOR
 RED-BRESTED MERGANSER
 OCEANODROMA FURCATA
 FORK-TAILED STORM-PETREL
 OCEANODROMA LEUCORHOA
 LEACH'S STORM-PETREL
 PELICANUS OCCIDENTALIS
 BROWN PELICAN
 PHALACROCORAX AURITUS
 DOUBLE-CRESTED CORMORANT
 PHALACROCORAX PELAGICUS
 PELAGIC CORMORANT
 PHALACROCORAX PENICILLATUS
 BRANDT'S CORMORANT
 PHALAROPUS FULICARIUS
 RED PHALAROPE

PODICEPS AURITUS
 HORNED GREBE
 PODICEPS GRISEGENA
 RED-NECKED GREBE
 PTYCHORAMPHUS ALEUTICA
 CASSIN'S AUKLET
 PUFFINUS BULLERI
 BULLER'S SHEARWATER
 PUFFINUS CARNEIPES
 FLESH-FOOTED SHEARWATER
 PUFFINUS CREATOPUS
 PINK-FOOTED SHEARWATER
 PUFFINUS GRISEUS
 SOOTY SHEARWATER
 PUFFINUS TENUIROSTRIS
 SHORT-TAILED SHEARWATER
 RISSA TRIDACTYLA
 BLACK-LEGGED KITTIWAKE
 STERNA CASPIA
 CASPIAN TERN
 STERNA FORSTERI
 FORSTER'S TERN
 STERNA HIRUNDO
 COMMON TERN
 SYNTHLIBORAMPHUS ANTIQUUM
 ANCIENT MURRELET
 URIA AALGE
 COMMON MURRE
 XEMA SABINI
 SABINE'S GULL

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

BERARDIUS BAIRDI
 BAIRD'S BEAKED WHALE
 CALLORHINUS URSINUS
 NORTHERN FUR SEAL
 DELPHINUS DELPHIS
 COMMON DOLPHIN
 EUMETOPIAS JUBATUS
 NORTHERN OR STELLAR SEA LION
 GLOBICEPHALA MACRORHYNCHUS
 BLACK FISH OR SHORT-FINNED PIL
 GRAMPUS GRISEUS
 RISSO'S DOLPHIN
 KOGIA BREVICEPS
 PYGMY SPERM WHALE
 LAGENORHYNCHUS OBLIQUIDENS
 PACIFIC STRIPED/WT-SIDED
 DOLPHIN
 LISSODELPHIS BOREALIS
 NORTHERN RIGHT WHALE DOLPHIN
 MESOPLODON CARLHUBBSI
 HUBB'S BEAKED WHALE
 MESOPLODON STEJNEGERI
 STEJNEGER'S BEAKED WHALE
 NIROUNGA AUGUSTIROSTRIS
 NORTHERN ELEPHANT SEAL
 ORCINUS ORCA
 KILLER WHALE
 PHOCA VITULINA
 HARBOR SEAL
 PHOCOENA PHOCOENA
 HARBOR PORPOISE
 PHOCOENOIDES DALLI
 DALL PORPOISE
 PHYSETER CATODON
 SPERM WHALE
 PSEUDORCA CRASSIDENS

HABITAT: EUPHOTIC PELAGIC

FALSE KILLER WHALE
 STENELLA COERULEALBA
 STRIPED DOLPHIN/GRAY'S PORPOISE
 ZALOPHUS CALIFORNIANUS
 CALIFORNIA SEA LION
 ZIPHEUS CAVIROSTRIS
 CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (5) OMNIVORE
 INVERTEBRATES

BENTHEUPHAUSIA AMBLYOPS
 EUPHASID
 EUPHAUSIA PACIFICA
 EUPHASID
 NEMATOBRACHION FLEXIPES
 EUPHASID
 NEMATOCELIS DIFFICILIS
 EUPHASID
 STYLOCHEIRON ABBRVIATUM
 EUPHASID
 STYLOCHEIRON LONGICORNE
 EUPHASID
 STYLOCHEIRON MAXIMUM
 EUPHASID
 TESSARABRACHION OCULATUS
 EUPHASID
 THYANOESSA GREGARIA
 EUPHASID
 THYANOESSA INSPINATA
 EUPHASID
 THYANOESSA LONGIPES
 EUPHASID
 THYANOESSA PARVA
 EUPHASID
 THYANOESSA RASCHII
 EUPHASID
 THYANOESSA SPINIFERA
 EUPHASID
 THYSANOPODA ACUTIFRONS
 EUPHASID
 THYSANOPODA CORNUTA
 EUPHASID
 THYSANOPODA EGREGIA
 EUPHASID

TROPHIC LEVEL: (5) OMNIVORE
 FISHES

SARDINOPS SAGAX
 PACIFIC SARDINE

TROPHIC LEVEL: (6) PARASITE
 FISHES

ENTOSPHEMUS TRIDENTATUS
 PACIFIC LAMPREY
 LAMPETRA AYRESI
 RIVER LAMPREY

TROPHIC LEVEL: (6) PARASITE
 BIRDS

CATHARACTA MCCORMICKI
 SOUTH POLAR SKUA
 STERCORARIUS LONGICAUDIS
 LONG-TAILED JAEGER
 STERCORARIUS PARASITICUS
 PARASITIC JAEGER
 STERCORARIUS POMARINUS

POMARINE JAEGER

TROPHIC LEVEL: (7) FILTER FEEDER
 INVERTEBRATES

DOLIOLUM
 SALP
 HELIOSCALPA VIRGULA
 SALP
 IASIS ZONARIA
 SALP
 OIKOPLEURA
 LARVACEAN
 PEGEA CONFOEDERATA
 SALP
 SALPA FUSIFORMIS
 SALP
 THALIA DEMOCRATICA
 SALP
 THETYS VAGINA
 SALP

TROPHIC LEVEL: (7) FILTER FEEDER
 MAMMALS

BALAENA GLACIALIS
 BLACK OR PACIFIC RIGHT WHALE
 BALAEONOPTERA ACUTOROSTRATA
 MINKE WHALE
 BALAEONOPTERA BOREALIS
 SEI WHALE
 BALAEONOPTERA MUSCULUS
 BLUE WHALE
 BALAEONOPTERA PHYSALUS
 FINBACK OR FIN WHALE
 MEGAPTERA NOVEANGLIAE
 HUMPBACK WHALE

TROPHIC LEVEL: (9) INVERTEBRATE
 EATER - INVERTEBRATES

ACANTHEPHYRA CURTIROSTRIS
 SHRIMP
 BENTHEOGENNEMA
 SHRIMP
 BENTHEOGENNEMA BOREALIS
 SHRIMP
 CYSTISOMA FABRICII
 AMPHIPOD
 DAIRELLA CALIFORNICA
 AMPHIPOD
 EUKROHNIA BATHYPELAGICA
 ARROW-WORM
 EUKROHNIA FOWLERI
 ARROW-WORM
 EUKROHNIA HAMATA
 ARROW-WORM
 GENNADUS INCERATUS
 SHRIMP
 GENNADAS PROPINQUUS
 SHRIMP
 HYMENODORA FRONTALIS
 SHRIMP
 HYMENODORA GLACIALIS
 SHRIMP
 HYMENODORA GRACILIS
 SHRIMP
 HYPERIA HYSTRIX
 AMPHIPOD
 HYPEROCHE DEDUSARUM
 AMPHIPOD

LANCEOLA LOVENTI
 AMPHIPOD
 LYCAEA PULEX
 AMPHIPOD
 MENINGOORA MOLLIS
 SHRIMP
 NINOE GEMMA
 POLYCHAETE WORM
 NOTOSTOMUS JAPONICUS
 SHRIMP
 OXYCEPHALUS CLAUSI
 AMPHIPOD
 PARAPASIPHAE CRISTATA
 SHRIMP
 PARAPASIPHAE SUICATIFRONS
 SHRIMP
 PARAPHRONIMA CRASSIPES
 AMPHIPOD
 PARAPHRONIMA GRACILIS
 AMPHIPOD
 PARATHERMISTO PACIFICA
 AMPHIPOD
 PASIPHAEA CHACET
 SHRIMP
 PASIPHAEA MAGNA
 SHRIMP
 PASIPHAEA PACIFICA
 SHRIMP
 PETALIDIUM SUSPIRIOSUM
 SHRIMP
 PHRONIMA SEDENTARIA
 AMPHIPOD
 PHRONIMOPSIS SPINIFERA
 AMPHIPOD
 POEOBIUS MESERES
 POLYCHAETE WORM
 PRIMNO ABYSSALIS
 AMPHIPOD
 PRIMNO MACROPA
 AMPHIPOD
 RHYNCHONOREELLA ANGELINI
 POLYCHAETE WORM
 SAGITTA BIERII
 ARROW-WORM
 SAGITTA DECIPIENS
 ARROW-WORM
 SAGITTA ELEGANS
 ARROW-WORM
 SAGITTA EUNERITICA
 ARROW-WORM
 SAGITTA MACROCEPHALA
 ARROW-WORM
 SAGITTA MAXIMA
 ARROW-WORM
 SAGITTA MINIMA
 ARROW-WORM
 SAGITTA SCRIPPSAE
 ARROW-WORM
 SAGITTA ZETESIOS
 ARROW-WORM
 SCINA CRASSICORNIS BURMUDENSIS
 AMPHIPOD
 SEGESTES SIMILIS
 SHRIMP
 SERGIA TENUIREMIS
 SHRIMP
 STREETSIA CHALLENGERI
 AMPHIPOD
 SYSTELLAPSIS BRAUERI
 SHRIMP

HABITAT: EUPHOTIC PELAGIC

SYSTELLAPSI CRISTATA
SHRIMP
TOMOPTERIS CAVALLII
POLYCHAETE WORM
TOMOPTERIS NISSENI
POLYCHAETE WORM
TOMOPTERIS PACIFICA
POLYCHAETE WORM
TRYPHANA MALMI
AMPHIPOD
VIBILIA ARMATA
AMPHIPOD
VIBILIA PROQUINQUA
AMPHIPOD
VIBILIA WOLTERECKI
AMPHIPOD

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

ALLOSMERUS ELONGATUS
WHITEBAIT SMELT
ALOSA SAPIDISSIMA
AMERICAN SHAD
AMMODYTES HEXAPTERUS
PACIFIC SAND LANCE
AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
ATHERINOPS AFFINIS
TOPSMELT
CETORHINUS MAXIMUS
BASKING SHARK
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
COLOLABIS SAIRA
PACIFIC SAURY
CYMATOGASTER AGGREGATA
SHINER PERCH
EMBIOTOCA LATERALIS
STRIPED SEAPERCH
ENGRAULIS MORDAX
NORTHERN ANCHOVY
HYPOMESUS PRETIOSUS
SURFSMELT
MICROGADUS PROXIMUS
PACIFIC TOMCOD
ONCORHYNCHUS NERKA
SOCKEYE SALMON
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
SPIRINCHUS STARKSI
NIGHT SURF SMELT
SPIRINCHUS THALEICHTHYS
LONGFIN SMELT
THALEICHTHYS PACIFICUS
EULACHON OR COLUMBIA RIVER SMELT

TROPHIC LEVEL (9) INVERTEBRATE
EATER - BIRDS

AYTHIA MARILA
GREATER SCAUP

TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES

ACARTIA CLAUSI
COPEPOD
ACARTIA DANAE
COPEPOD
ACARTIA LONGERIMIS
COPEPOD
ACARTIA NEGLIGENS
COPEPOD
AEGISTHUS MUCRONATUS HARPACTIC
COPEPOD
AETIDEOPSIS PACIFICA
COPEPOD
AETIDEUS ARMATUS
COPEPOD
AETIDEUS PACIFICUS
COPEPOD
AMALLOTHRIX VALIDA
COPEPOD
AMALLOTHRIX VORAK
COPEPOD
ARIETELLUS PLUMIFER
COPEPOD
BATHYCALANUS BRADYI
COPEPOD
BOREOMYSIS
COPEPOD
BOREOMYSIS ROSTRATA
COPEPOD
CALANUS CRISTATUS
COPEPOD
CALANUS FINMARCHICUS
COPEPOD
CALANUS PLUMCHRUS
COPEPOD
CALANUS TENUICORNIS
COPEPOD
CALOCALANUS STYLIREMIS
COPEPOD
CANDACIA BIPINNATA
COPEPOD
CAVOLINA UNCINATA
PTEROPOD
CENTRAUGAPTILUS PORCELLUS
COPEPOD
CENTROPAGES MCMURRICHI
COPEPOD
CHIRUNDINA STREETSII
COPEPOD
CLAUSOCALANUS ARCUICORNIS
COPEPOD
CLAUSOCALANUS PERGENS
COPEPOD
CLIO BALANTIUM
PTEROPOD
CLIONE LIMOCINA
PTEROPOD
COROLLA SPECTABILIS
PTEROPOD
CORYCHAEUS
COPEPOD
CTENOCALANUS VANUS
COPEPOD

EPILABIDOCERA AMPHITRITES
COPEPOD
EUCALANUS ATTENUATUS
COPEPOD
EUCALANUS BUNGII
COPEPOD
EUCHAETA SPINOSA
COPEPOD
EUCHIRELLA CURTICAUDA
COPEPOD
EUCOPIA
COPEPOD
EVADNE NORMANNI
CLADOCERAN
GAETANUS SECUNDUS
COPEPOD
GAETANUS SIMPLEX
COPEPOD
GAIDIUS BREVISPINUS
COPEPOD
GAIDIUS VARIABILIS
COPEPOD
GAUSSIA PRINCEPS
COPEPOD
GIGANTOCYPRIS AGASSIZII
OSTRACOD
GNATHOPHAUSIA GIGAS
COPEPOD
GNATHOPHAUSIA INGENS
COPEPOD
HALOPTILUS PSEUDOOXYCEPHALUS
COPEPOD
HETERORHABDUS TANNERI
COPEPOD
HETEROSTYLITES LONGICORNIS
COPEPOD
HETEROSTYLITES MAJOR
COPEPOD
LUCICUTIA BICORNUTA
COPEPOD
LUCICUTIA FLAVICORNIS
COPEPOD
METRIDEA LULCENS
COPEPOD
METRIDIA CURTICAUDA
COPEPOD
MICROCALANUS PYGMAEUS
COPEPOD
MICROSETELLA
COPEPOD
MIXTOCALANUS ROBUSTUS
COPEPOD
OITHONA
COPEPOD
ONCAEA CONIFERA
COPEPOD
PARACALANUS PARVUS
COPEPOD
PAREUCHAETA BIROSTRATA
COPEPOD
PAREUCHAETA JAPONICA
COPEPOD
PHAENNA SPINIFERA
COPEPOD
PLEUROMANNA BOREALIS
COPEPOD
PLEUROMANNA SCUTULLATA
COPEPOD
PODON LEUCKARTI
CLADOCERAN

HABITAT: DISPHOTIC PELAGIC

PSEUDOCALANUS MINUTHUS
 COPEPOD
 PSEUDOCHEIRELLA POLYSPINA
 COPEPOD
 RACOVITZANUS FORRECTA
 COPEPOD
 RACOVITZANUS PACIFICUS
 COPEPOD
 RHINCALANUS NASUTUS
 COPEPOD
 SCAPHOCALANUS MEDIUS
 COPEPOD
 SCAPHOCALANUS MINUTUS
 COPEPOD
 SCAPHOCALANUS SUBELONGATUS
 COPEPOD
 SCOLECITHRICELLA MINOR
 COPEPOD
 SCOTTOCALANUS SEDATUS
 COPEPOD
 TORTANIS DISCAUDATUS
 COPEPOD
 UNDEUCHAETA INTERMEDIA
 COPEPOD
 UNDEUCHAETA MAJOR
 COPEPOD
 UNDEUCHAETA PLUMOSA
 COPEPOD

TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES

ABRALIOPSIS FELIS
 SQUID
 AEGINA CITREA
 JELLYFISH
 AEGINURA GRIMALDII
 JELLYFISH
 AEQUOREA
 JELLYFISH
 AGLANTHA DIGITALE
 JELLYFISH
 ATOLLA VANHOEFFENI
 JELLYFISH
 ATOLLA WYVILLEI
 JELLYFISH
 AURELIA LABIATA
 JELLYFISH
 BARGMANNIA
 JELLYFISH
 BEROE CUCUMIS
 COMB JELLY
 BOTRYNEMA BRUCEI
 JELLYFISH
 CALYCOPSIS NAMATOPHORA
 CARANARIA JAPONICA
 HETEROPOD
 CHELOPHYES APPENDICULATA
 JELLYFISH
 CHELOPHYES MULTIDENTATA
 JELLYFISH
 CHIROTEUTHIS VERANYI
 SQUID
 CHUNIPHYES MOSERAE
 JELLYFISH
 COLOBONEMA SERVICEUM
 JELLYFISH
 CRANCHIA SCABRA
 SQUID
 CROSSOTA ALBA

JELLYFISH
 CROSSOTA PEDUNCULATA
 JELLYFISH
 CROSSOTA RUFOBUNNEA
 JELLYFISH
 CUNINA OCTONARIA
 JELLYFISH
 CYANEA
 JELLYFISH
 EUPHYSORA FURCATA
 JELLYFISH
 EUTONIA INDICANS
 JELLYFISH
 GALITEUTHIS ARMATA
 SQUID
 GONATOPSIS BOREALIS
 SQUID
 GONATUS ANONYCHUS
 SQUID
 GONATUS FABRICII
 SQUID
 GONATUS MAGISTER
 SQUID
 HALICREAS MINIMUM
 JELLYFISH
 HALISTAURA CELLULARIA
 JELLYFISH
 HISTIOTEUTHIS HETEROPSIS
 SQUID
 JAPETELLA HEATHI
 OCTOPUS
 LENSIA CONOIDEA
 JELLYFISH
 LIMACINA HELACINA
 PTEROPOD
 LOLIGO OPALESCENS
 SQUID
 MOROTEUTHIS ROBUSTA
 SQUID
 MUGGIAEA ATLANTICA
 JELLYFISH
 NANOMIA CARA
 JELLYFISH
 OCTOPOTEUTHIS SICULA
 SQUID
 OCTOPUS
 OCTOPUS
 ONYCHOTEUTHIS BANKSI
 SQUID
 PANTACHOGON HAECKELI
 JELLYFISH
 PARAPHYLLINA RAMSONI
 JELLYFISH
 PERIPHYLLA PERIPHYLLA
 JELLYFISH
 PHYSOPHORA HYDROSTATICA
 JELLYFISH
 PLEUROBRACHIA PILEUS
 COMB JELLY
 PRAYA DUBIA
 JELLYFISH
 PRAYA RETICULATA
 JELLYFISH
 PTEROTRACHEA SCUTUTA
 HETEROPOD
 ROSSIA PACIFICA
 SQUID
 SARSIA PRINCEPS
 JELLYFISH
 SARSIA TUBULOSA

JELLYFISH
 SOLMISSUS INCISA
 JELLYFISH
 SOLMISSUS MARSHALLI
 JELLYFISH
 SULCULEOLARIA QUADRIVALIS
 JELLYFISH
 TAONIUS PAVO
 SQUID
 VAMPYROTEUTHIS INFERNALIS
 SQUID
 VOGTIA SPINOSA
 JELLYFISH

TROPHIC LEVEL: (3) CARNIVORE
FISHES

ALOPIAS VULPINUS
 THRESHER SHARK
 ANOPELOPOMA FIMBRIA
 SABLEFISH
 CHAULIODUS MACOUNI
 PACIFIC VIPERFISH
 CORYPHAENOIDES ACROLEPIS
 ROUGHSCALE RATTAILED
 EPTATRETUS DEANI
 BLACK HAGFISH
 EPTATRETUS STOUTI
 PACIFIC HAGFISH
 GALEORHINUS ZYOPTERUS
 SOUPFIN SHARK
 HEXANCHUS GRISEUS
 SIXGILL SHARK
 HYDROLAGUS COLLIEI
 RATFISH
 LAMNA DITROPIS
 SALMON SHARK
 MERLUCCIIUS PRODUCTUS
 PACIFIC HAKE
 NOTORHYNCHUS MACULATUS
 SPOTTED COWSHARK OR SEVENGILL
 ONCORHYNCHUS GORBUSCHA
 PINK SALMON
 ONCORHYNCHUS KETA
 CHUM SALMON
 ONCORHYNCHUS KISUTCH
 COHO SALMON
 ONCORHYNCHUS TSHAWYTSCHA
 CHINOOK SALMON
 PORICHTHYS NOTATUS
 PLAINFIN MIDSHIPMEN
 PRIONACE GLAUCA
 BLUE SHARK
 RAJA KINCAIDI
 BLACK SKATE
 RAJA RHINA
 LONGNOSE SKATE
 RAJA STELLULATA
 STARRY SKATE
 SALMO CLARKI
 CUTTHROAT TROUT
 SALMO GAIARDNERI
 STEELHEAD TROUT
 SALVELINUS MALMA
 DOLLY VARDEN
 SEBASTES ALUTUS
 PACIFIC OCEAN PERCH
 SEBASTES CRAMERI
 BLACKMOUTH ROCKFISH OR
 DARKBLOOD

HABITAT: DISPHOTIC PELAGIC

SEBASTES DIPLOPROA
SPLITNOSE ROCKFISH
SEBASTES ELONGATUS
GREENSTRIPED ROCKFISH
SEBASTES FLAVIDUS
YELLOWTAIL ROCKFISH
SEBASTES PINNIGER
CANARY ROCKFISH
SEBASTOLOBUS ALASCANUS
SHORTSPINE ROCKFISH
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH
TACTOSTOMA MACROPUS
LONGFIN DRAGONFISH
THERAGRA CHALCOGRAMMA
WALLEYE POLLOCK
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY
TRIAKIS SEMIFASCIATA
LEOPARD SHARK

TROPHIC LEVEL: (3) CARNIVORE MAMMALS

BERARDIUS BAIRDI
BAIRD'S BEAKED WHALE
CALLORHINUS URSINUS
NORTHERN FUR SEAL
KOGIA BREVICEPS
PYGMY SPERM WHALE
LISSODELPHIS BOREALIS
NORTHERN RIGHT WHALE DOLPHIN
MESOPLONDON STEJNEGERI
STEJNEGER'S BEAKED WHALE
ORCINUS ORCA
KILLER WHALE
PHOCOENA PHOCOENA
HARBOR PORPOISE
RHOCOENOIDES DALLI
DALL PORPOISE
PHYSETER CATODON
SPERM WHALE
STENELLA COERULEOALBA
STRIPED DOLPHIN/GRAY'S PORPOISE
ZIPHEUS CAVIROSTRIS
CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES

BENTHEOPAUSIA AMBLYOPS
EUPHASID
EUPHAUSIA PACIFICA
EUPHASID
NEMATOBRACHION FLEXIPES
EUPHASID
NEMATOCCELIS DIFFICILIS
EUPHASID
STYLOCHEIRON ABBREVIATUM
EUPHASID
STYLOCHEIRON LONGICORNE
EUPHASID
STYLOCHEIRON MAXIMUM
EUPHASID
TESSARABRACHION OCLATUS
EUPHASID
THYANOESSA GREGARIA
EUPHASID

THYANOESSA INSPINATA
EUPHASID
THYANOESSA LONGIPES
EUPHASID
THYANOESSA PARVA
EUPHASID
THYANOESSA RASCHII
EUPHASID
THYANOESSA SPINIFERA EUPHASID
THYSANOPODA ACUTIFRONS
EUPHASID
THYSANOPODA CORNUTA
EUPHASID
THYSANOPODA EGREGIA
EUPHASID

TROPHIC LEVEL: (5) OMNIVORE FISHES

SARDINOPS SAGAX
PACIFIC SARDINE

TROPHIC LEVEL: (6) PARASITE FISHES

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY
LAMPETRA AYREST
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES

DOLIOLUM
SALP
HELIOSCALPA VIRGULA
SALP
IASIS ZONARIA
SALP
OIKOPLEURA
LARVACEAN
PEGEA CONFOEDERATA
SALP
SALPA FUSIFORMIS
SALP
THALIA DEMOCRATICA
SALP
THETYS VAGINA
SALP

TROPHIC LEVEL: (9) INVERTEBRATE EATER - INVERTEBRATES

ACANTHEPHYRA CURTIROSTRIS
SHRIMP
BENTHEOGENNEMA
SHRIMP
BENTHEOGENNEMA BOREALIS
SHRIMP
CYSTISOMA FABRICII
AMPHIPOD
DAIRELLA CALIFORNICA
AMPHIPOD
EUKROHNIA BATHPELAGICA
ARROW-WORM
EUKROHNIA FOWLERI
ARROW-WORM
EUKROHNIA HAMATA
ARROW-WORM
GENNADAS INCERTUS

SHRIMP
GENNADAS PROPINQUUS
SHRIMP
HYMENODORA FRONTALIS
SHRIMP
HYMENODORA GLACIALIS
SHRIMP
HYMENODORA GRACILIS
SHRIMP
HYPERIA HYSTRIX
AMPHIPOD
HYPEROCHE DEDUSARUM
AMPHIPOD
LANCEOLA LOVENTI
AMPHIPOD
LYCAEA PULEX
AMPHIPOD
MENINGODORA MOLLIS
SHRIMP
NINOE GEMMA
POLYCHAETE WORM
NOTOSTOMUS JAPONICUS
SHRIMP
OXYCEPHALUS CLAUSI
AMPHIPOD
PANDALUS JORDANI
OCEAN PINK SHRIMP
PARAPASIPHAE CRISTATA
SHRIMP
PARAPASIPHAE SUICATIFRONS
SHRIMP
PARAPHRONIMA CRASSIPES
AMPHIPOD
PARAPHRONIMA GRACILIS
AMPHIPOD
PARATHERMISTO PACIFICA
AMPHIPOD
PASIPHAEA CHACEI
SHRIMP
PASIPHAEA MAGNA
SHRIMP
PASIPHAEA PACIFICA
SHRIMP
PETALIDIUM SUSPIRIOSUM
SHRIMP
PHRONIMA SEDENTARIA
AMPHIPOD
PHRONIMOPSIS SPINIFERA
AMPHIPOD
POEOBIUS MESERES
POLYCHAETE WORM
PRINNO ABYSSALIS
AMPHIPOD
PRINNO MACROPA
AMPHIPOD
RHYNCHONEREELLA ANGELINI
POLYCHAETE WORM
SAGITTA BIERII
ARROW-WORM
SAGITTA DECIPIENS
ARROW-WORM
SAGITTA ELEGANS
ARROW-WORM
SAGITTA EUNERITICA
ARROW-WORM
SAGITTA MACROCEPHALA
ARROW-WORM
SAGITTA MAXIMA
ARROW-WORM
SAGITTA MINIMA

HABITAT: DISPHOTIC PELAGIC

ARROW-WORM
 SAGITTA SCRIPPSAE
 ARROW-WORM
 SAGITTA ZETESIOS
 ARROW-WORM
 SCINA CRASSICORNIS BURMUJENSIS
 AMPHIPOD
 SERGESTES SIMILIS
 SHRIMP
 SERGIA TENUIREMIS
 SHRIMP
 STREETSIA CHALLENGERI
 AMPHIPOD
 SYSTELLASPIS BRAUERI
 SHRIMP
 SYSTELLASPIS CRISTATA
 SHRIMP
 TOMOPTERIS CAVALLII
 POLYCHAETE WORM
 TOMOPTERIS NISSENI
 POLYCHAETE WORM
 TOMOPTERIS PACIFICA
 POLYCHAETE WORM
 TRYPHANA MALMI
 AMPHIPOD
 VIBILIA ARMATA
 AMPHIPOD
 VIBILIA PROQUINQUA
 AMPHIPOD
 VIBILIA WOLTERECKI
 AMPHIPOD

TROPHIC LEVEL: (9) INVERTEBRATE
 EATER - FISHES

ALLOSMERUS ELONGATUS
 WHITEBAIT SMELT
 ALOSA SAPIDISSIMA
 AMERICAN SHAD
 ATHERINOPS AFFINIS
 TOPSMELT
 CERATOSCOPELUS TOWNSENDI
 DOGTOOTH LAMPFISH
 CETORHINUS MAXIMUS
 BASKING SHARK
 CLUPEA HARENGUS PALLASI
 PACIFIC HERRING
 COLOLABIS SAIRA
 PACIFIC SAURY
 DIAPHUS THETA
 CALIFORNIA HEADLIGHTFISH
 ENGRAULIS MORDAX
 NORTHERN ANCHOVY
 ONCORHYNCHUS NERKA
 SOCKEYE SALMON
 SPIRINCHUS STARKSI
 NIGHT SURF SMELT
 SPIRINCHUS THALEICHTHYS
 LONGFIN SMELT
 STENOBRACHIUS LEUCOPSARUS
 NORTHERN LAMPFISH
 TARLETONBEANIA CRENUULARIS
 BLUE LANTERNFISH
 THALEICHTHYS PACIFICUS
 EULACHON OR COLUMBIA R. SMELT

TROPHIC LEVEL: (2) HERBIVORE
 INVERTEBRATES

ACMAEA MITRA
 DUNCECAP LIMPET
 STRONGYLOCENTROTUS FRANSISCANU
 GIANT RED URCHIN
 STRONGYLOCENTROTUS PURPURATUS
 PURPLE SEA URCHIN

TROPHIC LEVEL: (3) CARNIVORE
 INVERTEBRATES

ACMAEA LIMATULA
 FILE LIMPET
 ANTIPLANES ABARBAREA
 SNAIL
 ANTIPLANES PERVERSA
 SNAIL
 ANTIPLANES VINOSA
 SNAIL
 ARCHIDORIS MONTEREYENSIS
 NUDIBRANCH
 ARMINA CALIFORNICA
 NUDIBRANCH
 ASTROPECTIN ARMATUS
 SAND STAR
 BENTHOCTOPUS
 OCTOPUS
 BORETROPHON STUARTI
 SNAIL
 BUCCINUM STRIGILLATUM
 SNAIL
 CALLIOSTOMA ANNULATUM
 SNAIL
 CHIONECTES BAIRDI
 TANNER CRAB
 CHIONECTES OPILIO
 TANNER CRAB
 CHIONECTES TANNERI
 TANNER CRAB
 COLUS ROSEUS
 SNAIL
 COLUS SERVINUS
 SNAIL
 CROSSASTER PAPOSUS
 ROSE STAR
 DENTALIUM
 TOOTH SNAIL
 DERMATERIAS IMBRICATA
 LEATHER STAR
 EPITONIUM INDIANORUM
 SNAIL
 FUSITRITION OREGONENSIS
 OREGON TRITON
 HENRICIA LEVISCULA
 BLOOD STAR
 ISCHNOCHITON
 CHITON
 LEPIDAZONA
 CHITON
 LEPIDAZONA GOLISCHI
 CHITON
 LEPTOCHITON
 CHITON

LISCHKIA CIDARIS
 SNAIL
 LUIDIA FOLIATA
 SAND STAR
 METRIDIDIUM FIMBRIATUM
 SEA ANEMONE
 MITRELLA GOULDI
 SNAIL
 NASSARIUS FOSSATUS
 SNAIL
 NASSARIUS MENDICUS
 SNAIL
 NEPTUNEA LYRATA
 SNAIL
 OCTOPUS DOLFEINI
 OCTOPUS
 PISASTER BREVISPINOUS
 SHORT-SPINED PISASTER
 PISASTER GIGANTEUS
 GIANT STAR
 PISASTER OCHRACEOUS
 PURPLE STAR
 POLYPUS
 OCTOPUS
 PTERASTER TESSELATUS ARCUATUS
 SLIME STAR
 PUNCTURELLA CUCULATA
 LIMPET
 PYCNOPODIA HELIANTHOIDES
 SUNFLOWER STAR
 ROSSIA PACIFICA
 SQUID
 SCYRA ACUTIFRONS
 MASKING CRAB
 SOLASTER DAWSONI
 MORNING SUN STAR
 SOLASTER STIMPSONI
 SUN STAR
 STYLASTERIAL FORRERI
 SEA STAR
 TACHYRHYNCHUS LACTEOLUM
 SNAIL
 TACHYRHYNCHUS PRATOMUM
 SNAIL
 TROPHON TRIPHERUS
 SNAIL

TROPHIC LEVEL: (3) CARNIVORE
 FISHES

ANARRHICHTHYS OCELLATUS
 WOLF EEL
 DASYCOTTUS SETIGER
 SPINYHEAD SCULPIN
 EPTATRETUS DEANI
 BLACK HAGFISH
 EPTATRETUS STOUTI
 PACIFIC HAGFISH
 HEXAGRAMMOS DECAGRAMMUS
 KELP GREENLING
 HEXAGRAMMOS STELLERI
 WHITESPOTTED GREENLING
 HEXANCHUS GRISEUS
 SIXGILL SHARK
 HYDROLAGUS COLLIEI
 RATFISH
 ICELINUS FILAMENTOSUS
 THREADFIN SCULPIN
 OPHIODON ELONGATUS
 LINGCOD

HABITAT: ROCKY NON-VEGETATED BENTHIC

RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SEBASTES CAURINUS
COPPER ROCKFISH
SEBASTES MALIGER
QUILLBACK ROCKFISH
SEBASTES MYSTINUS
BLUE ROCKFISH
SEBASTES RUBERRIMUS
YELLOW EYE ROCKFISH
SEBASTODES MELANOPS
BLACK SEABASS
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

EUMETOPIAS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
MESOPLONDON STEJNEGERI
STEJNEGER'S BEAKED WHALE
PHOCA VITULINA
HARBOR SEAL
PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATODON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION
ZIPHEUS CAVIROSTRIS
CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (4) DETRITIVORE INVERTEBRATES

ALLOCENTROTUS FRAGILIS
SEA URCHIN
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
STRONGYLOCENTROTUS ECHINOIDES
SEA URCHIN
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

TROPHIC LEVEL: (5) OMNIVORE INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
OENOPOTA
SNAIL

ONCOSOECIA
BRYOZOAN
PSEUDARCHASTER PARELLI ALASCEN
SEA STAR

TROPHIC LEVEL: (6) PARASITE FISHES

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY
LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM
BALANUS CREMATUS
BARNACLE
BALANUS HESPERIUS
BARNACLE
BEGULA FLABELLATA
BRYOZOAN
CABEREA ELLISI
BRYOZOAN
CALLAPORA CORNICULIFERA
BRYOZOAN
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CELLARIA DIFFUSA
BRYOZOAN
CELLARIA MANDIBULATA
BRYOZOAN
CHLAMYS HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYS HINDSI
HIND'S SCALLOP
CLINOCARDIUM NUTALLI
BASKET COCKLE
HALOCYNTHIA IGABOJA
SEA SQUIRT
LAGENIPORA PUNCTULATA
BRYOZOAN
LAQUEUS CALIFORNICUS
LAMP SHELL
MYRIOZOOM COARCTATUM
BRYOZOAN
MYRIOZOOM TENUE
BRYOZOAN
NEMOCARDIUM CENTRIFILISUM
HUNDRED-LINED COCKLE
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTHACA STAMINEA
ROCK COCKLE
SCALPELLUM
BARNACLE
SOLEMYA AGASSIZI
AWNING CLAM
TEREBRATALIA TRANSVERSA
LAMP SHELL
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM
YOLDIA LIMATULA GAIRDNERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER INVERTEBRATES

CANCER MAGISTER
DUNGENESS CRAB
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB
PHYLLOLITHOIDES PAPILLOSUS
PAPILLA CRAB

TROPHIC LEVEL: (9) INVERTEBRATE EATER - INVERTEBRATES

ARCTONOE PULCHRA
POLYCHAETE
BALANOPHYLLA ELEGANS
STONY CORAL
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
DAIRELLA CALIFORNICA
AMPHIPOD
ENIPO GRACILIS
POLYCHAETE
HAPLOSCOLOPUUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS DANAE
DOCK SHRIMP
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PARAGORGIA ARBOREA
SOFT CORAL
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

TROPHIC LEVEL: (9) INVERTEBRATE EATER - FISHES

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
LEPIDOPSETTA BILINEATA
ROCK SOLE
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN

HABITAT: ROCKY NON-VEGETATED BENTHIC

RADULINUS ASPRELLUS
SLIM SCULPIN

TROPHIC LEVEL (-) INVERTEBRATES

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

TROPHIC LEVEL (0) INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
ALLOPORA VERRILLI
HYDROCORAL
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPPIASTERIA SPINOSA
SEA STAR
LAFOEA ADNATA
HYDROID
LAFOEA DUMOSA
HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
PUGETTIA ARACILLIS
KELP CRAB
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

TROPHIC LEVEL: (2) HERBIVORE INVERTEBRATES

ACMAEA MITRA
DUNCECAP LIMPET

TROPHIC LEVEL: (2) HERBIVORE FISHES

ASTEROTHECA PENTACANTHUS
BIGEYE POACHER

TROPHIC LEVEL: (3) CARNIVORE INVERTEBRATES

ACMAEA LIMATULA
FILE LIMPET
ANTIPLANES ABARBAREA
SNAIL
ANTIPLANES PERVERSA
SNAIL
ANTIPLANES VINOSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BENTHOCTOPUS
OCTOPUS
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CADULUS STEARNSII
TOOTH SHELL
CALLIOSTOMA ANMULATUM
SNAIL
CHIONECTES BAIRDI
TANNER CRAB
CHIONECTES OPILIO
TANNER CRAB
CHIONECTES TANNERI
TANNER CRAB
COLUS ROSEUS
SNAIL
COLUS SERVINUS
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DENTALIUM
TOOTH SHELL
DERMASTERIAS IMBRICATA
LEATHER STAR
EPITONIUM INDIANORUM
SNAIL
FUSITRITION OREGONENSIS
OREGON TRITON
HENRICIA LEVISCULA
BLOOD STAR
ISCHNOCHITON
CHITON
LEPIDAZONA
CHITON
LEPIDAZONA GOLISCHI
CHITON
LEPTOCHITON
CHITON

LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
METRIDIDIUM FIMBRIATUM
SEA ANEMONE
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
NATICA CLAUSA
SNAIL
NEPTUNEA LYRATA
SNAIL
OCTOPUS DOLFEINI
OCTOPUS
PISASTER BREVISPINOSUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
POLINICES LEWISII
MOON SNAIL
POLINICES PALLIDUS
MOON SNAIL
POLYPUS
OCTOPUS
PTERASTER TESSELLATUS ARCUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSSIA PACIFICA
SQUID
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUN STAR
STYLASTERIAL FORRERI
SEA STAR
TACHYRHYNCHUS LACTEOLUM
SNAIL
TACHYRHYNCHUS PRATOMUM
SNAIL
THRASSACANTHIAS PENCILATUS
SEA STAR
TROPION TRIPHERUS
SNAIL

TROPHIC LEVEL: (3) CARNIVORE FISHES

ANOPILOPOMA FIMBRIA
SABLEFISH
ATHERESTHES STOMIAS
TURBOT OR ARROWTOOTH FLOUNDER
BROSOPHYCIS MARGINATA
RED BROTLA
CHITOMOTUS PUGETENSIS
ROUGHBACK SCULPIN
CITHARICHTHYS SORDIDUS
PACIFIC SANDDAB
DASYCOTTUS SETIGER
SPINYHEAD SCULPIN
DELOLEPIS GIGANTEA
GIANT WRYMOUTH

HABITAT: MUD NON-VEGETATED BENTHIC

EOPSETTA JORDANI
PETRALE SOLE
EPTATRETUS DEANI
BLACK HAGFISH
EPTATRETUS STOUTI
PACIFIC HAGFISH
GADUS MACROCEPHALUS
PACIFIC COD
GLYPTOCEPHALUS ZACHIRUS
REX SOLE
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS STELLERI
WHITESPOTTED GREENLING
HEXANCHUS GRISEUS
SIXGILL SHARK
HIPPOGLOSSOIDES ELASSODON
FLATHEAD SOLE
HIPPOGLOSSUS STENCLEPIS
PACIFIC HALIBUT
HYDROLAGUS COLLIEI
RATFISH
ICELINUS FILAMENTOSUS
THREADFIN SCULPIN
ISOPSETTA ISOLEPIS
BUTTER SOLE
LYCODOPSIS PACIFICA
BALCKBELLY EELPOUT
LYOPSETTA EXILIS
SLENDER SOLE
MICROSTOMUS PACIFICUS
DOVER SOLE
OPHIODON ELONGATUS
LINGCOD
PAROPHRYS VETULUS
ENGLISH SOLE
PLATICTHYS STELLATUS
STARRY FLOUNDER
PORICTHYS NOTATUS
PLAINFIN MIDSHIPMEN
PSETTICTHYS MELANOSTICTUS
SAND SOLE
RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICTHYS MARMORATUS
CABEZON
SEBASTES CAURINUS
COPPER ROCKFISH
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY

TROPHIC LEVEL: (3) CARNIVORE
MAMMALS

EUMETOPIAS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
PHOCA VITULINA
HARBOR SEAL

PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATODON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ALLOCENTROTUS FRAGILIS
SEA URCHIN
AMPHIPLUS STRONGYLOPLAX
BRITTLE STAR
APIURA SARSII
BRITTLE STAR
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
LEPTOSYNAPTA
SEA CUCUMBER
LISTRIOLOBUS HEXAMYOTUS
ECHIURID WORM
LOPHOLITHOIDES FORAMINATUS
BOX CRAB
LOPHOLITHOIDES MANDTII
PUGET SOUND KING CRAB
LUMBRINERIS BICIRRATA
POLYCHAETE
LUMBRINERIS SIMILABRIS
POLYCHAETE
MACOMA ALCAREA
CHALKY CLAM
MAGELONA JAPONICA
POLYCHAETE
MOLPADIA INTERMEDIA
SEA CUCUMBER
OPHIOPHOLIS BAKERI
BRITTLE STAR
OPHIURA LUTKENI
BRITTLE STAR
PARASTICHOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
TELLINA BUTTONI
BUTTON'S TELLIN CLAM
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD-EATER

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
OENOPOTA
SNAIL
PSEUDARCHASTER PARELII ALASCEN
SEA STAR

TROPHIC LEVEL: (6) PARASITE
FISHES

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY
LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM
AXINOPSIDA SERICATA
CLAM
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CARDIOMYA PLANETICA
CLAM
CARDITA STEARNSII
CLAM
CARDITA VENTICOSA
CLAM
CHLAMYS HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYS HINDSI
HIND'S CLAM
CLINOCARDIUM NUTALLI
BASKET COCKLE
COMPSOMYAX SUBDIAPHANA
CLAM
CRENELLA COLUMBIANA
CLAM
EUPLEXAURA MARKI
SEA PEN
HUXLEYIA MUNITA
CLAM
LIEOPTULUS QUADRANGULARIS
SEA PEN
LYONSIA STRIATA
CLAM
NEMOCARDIUM CENTRIFILISUM
HUNDRED-LINED COCKLE
NUCULA TENUIS
CLAM
NUCULANA AUSTINI
CLAM
NUCULANA PERNULS
CLAM
PATINOPECTIN CAURINUS
WEATHERVANE SCALLOP
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTHACA STAMINEA
ROCK COCKLE
PSEPHIDIA LORDI
CLAM
SAXICAVA ARCTICA
ARCTIC SAXICLAVE CLAM
SCLEROPTILUM
SEA PEN
SOLEMYA AGASSIZI
AWNING CLAM
STYLATULA ELONGATA
SEA PEN
THRACIA CURTA
CLAM
THRACIA TRAPEZOIDES
CLAM
THYASIRA BARBARENSIS
CLAM
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM
YOLDIA LIMATULA GAIRDERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

HABITAT: MUD NON-VEGETATED BENTHIC

CANCER MAGISTER
DUNGENESS CRAB
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

APHRODITE JAPONICA
POLYCHAETE
ARCTONOE PULCHRA
POLYCHAETE
CARINOMELLA LACTEA
RIBBON WORM
CEREBRATULUS CALIFORNIENSIS
RIBBON WORM
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
ENIPO GRACILIS
POLYCHAETE
GLYCERA AMERICANA
POLYCHAETE
HAPLOSCOLOPUUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CACOIDES
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS CORNUTA
POLYCHAETE
NEPHTYS FERRUGINEA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
AGONUS ACIPENSERINUS
STURGEON POACHER

CLUPEA HARENGUS PALLASI
PACIFIC HERRING
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS PULCHELLUS
SHOWY SNAILFISH
LUMPENUS SAGITTA
SNAKE PRICKLEBACK
LYCONECTES ALEUTENSIS
DWARF WRYMOUTH
MICROGADUS PROXIMUS
PACIFIC TOMCOD
POROCLINIS ROTHROCKI
WHITEBARRED BLENNY
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
RADULINUS ASPRELLUS
SLIM SCULPIN
XENERETHMUS LATIFRONS
BLACKTIP POACHER

TROPHIC LEVEL: (-)
INVERTEBRATES

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

TROPHIC LEVEL: (0)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECTIUM CORRUGATUM
HYDROID
HIPPIASTERIA SPINOSA
SEA STAR
LAFOEIA ADMATA
HYDROID
LAFOEIA DUMOSA
HYDROID
LAFOEIA FRUTICOSA
HYDROID
LAFOEIA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR

HEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
RATHBUNASTER CALIFORNICUS
SEA STAR
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

TROPHIC LEVEL: (0)
FISHES

PLEURONICHTHYS COENOSUS
C-O SOLE

HABITAT: MUD NON-VEGETATED BENTHIC

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACMAEA MITRA
DUNCECAP LIMPET

**TROPHIC LEVEL: (2) HERBIVORE
FISHES**

ASTEROTHECA PENTACANTHUS
BIGEYE POACHER

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACMAEA LIMATULA
FILE LIMPET
ANTIPLANES ABARBAREA
SNAIL
ANTIPLANES PERVERSA
SNAIL
ANTIPLANES VINOSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BENTHOCTOPUS
OCTOPUS
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CADULUS STEARNSII
TOOTH SHELL
CALLIOSTOMA ANNULATUM
SNAIL
CHIONECTES BAIRDI
TANNER CRAB
CHIONECTES OPILIO
TANNER CRAB
CHIONECTES TANNERI
TANNER CRAB
COLUS ROSEUS
SNAIL
COLUS SERVINUS
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DENTALIUM
TOOTH SHELL
DERMASTERIAS IMBRICATA
LEATHER STAR
EPITONIUM INDIANORUM
SNAIL
FUSITRITON OREGONENSIS
OREGON TRITON
HENRICIA LEVISCULA
BLOOD STAR
ISCHNOCHITON
CHITON
LEPIDAZONA
CHITON
LEPIDAZONA GOLISCHI
CHITON
LEPTOCHITON
CHITON

HABITAT: MUDDY SAND NON-VEGETATED BENTHIC

LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
METRIDIDIUM FIMBRIATUM
SEA ANEMONE
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
NATICA CLAUSA
SNAIL
NEPTUNEA LYRATA
SNAIL
OCTOPUS DOLFEINI
OCTOPUS
PISASTER BREVISPINOSUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
POLINICES LEWISII
MOON SNAIL
POLINICES PALLIDUS
MOON SNAIL
POLYPUS
OCTOPUS
PTERASTER TESSELLATUS ARCUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSSIA PACIFICA
SQUID
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUN STAR
STYLASTERIAL FORRERI
SEA STAR
TACHYRHYNCHUS LACTEOLUM
SNAIL
TACHYRHYNCHUS PRATOMUM
SNAIL
THRASSACANTHIAS PENCILATUS
SEA STAR
TRITONIA
NUDIBRANCH
TROPHON TRIPHERUS
SNAIL

**TROPHIC LEVEL: (3) CARNIVORE
FISHES**

ACIPENSER TRANSMONTANUS
WHITE STURGEON
ATHERESTHES STOMIAS
TURBOT OR ARROWTOOTH FLOUNDER
CHITONOTUS PUGETENSIS
ROUGHBACK SCULPIN
CITHARICHTHYS SORDIDUS
PACIFIC SANDOAB
CITHARICHTHYS STIGMAEUS
SPECKLED SANDOAB
DASYCOTTUS SETIGER
SPINYHEAD SCULPIN

DELOLEPIS GIGANTEA
GIANT WRYMOUTH
EOPSETTA JORDANI
PETRALE SOLE
EPTATRETUS DEANI
BLACK HAGFISH
EPTATRETUS STOUTI
PACIFIC HAGFISH
GADUS MACROCEPHALUS
PACIFIC COD
GLYPTOCEPHALUS ZACHIRUS
REX SOLE
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS STELLERI
WHITESPOTTED GREENLING
HEXANCHUS GRISEUS
SIXGILL SHARK
HIPPOGLOSSOIDES ELASSODON
FLATHEAD SOLE
HIPPOGLOSSUS STENCELEPIS
PACIFIC HALIBUT
HYDROLAGUS COLLIEII
RATFISH
ICELINUS FILAMENTOSUS
THREADFIN SCULPIN
ISOPSETTA ISOLEPIS
BUTTER SOLE
LYOPSETTA EXILIS
SLENDER SOLE
MICROSTOMUS PACIFICUS
DOVER SOLE
OPHIODON ELONGATUS
LINGCOD
PAROPHRYUS VETULUS
ENGLISH SOLE
PLATICHTHYS STELLATUS
STARRY FLOUNDER
PORICHTHYS NOTATUS
PLAINFIN MIDSHIPMEN
PSETTICHTHYS MELANOSTICTUS
SAND SOLE
RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SEBASTES CAURINUS
COPPER ROCKFISH
SOMNIOSUS PACIFICUS
PACIFIC SLEEPER SHARK
SQUALUS ACANTHIAS
SPINY DOGFISH
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY

**TROPHIC LEVEL: (3) CARNIVORE
MAMMALS**

EUMETOPHYS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
PHOCA VITULINA
HARBOR SEAL

PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATOMIDON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

**TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES**

ALLOCENTROTUS FRAGILIS
SEA URCHIN
AMPHIOPUS STRONGYLOPLAX
BRITTLE STAR
APHIURA SARSI
BRITTLE STAR
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
DENDRASTER EXCENTRICUS
SAND DOLLAR
LEPTOSYNAPTA
SEA CUCUMBER
LISTRILOBUS HEXAMYOTUS
ECHIURID WORM
LOPHOLITHOIDES FORAMINATUS
BOX CRAB
LOPHOLITHOIDES MANDTII
PUGET SOUND KING CRAB
LUMBRINERIS BICIRRATA
POLYCHAETE
LUMBRINERIS SIMILABRIS
POLYCHAETE
MACOMA ALCAREA
CHALKY CLAM
MAGELONA JAPONICA
POLYCHAETE
MOLPADIA INTERMEDIA
SEA CUCUMBER
OPHIOPHOLIS BAKERI
BRITTLE STAR
OPHIURA LUTKENI
BRITTLE STAR
PARASTICHOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
TELLINA BUTTONI
BUTTON'S TELLIN CLAM
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

**TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES**

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
GEMNOPOTA
SNAIL
PSEUDARCHASTER PARELII ALASCEN
SEA STAR

**TROPHIC LEVEL: (6) PARASITE
FISHES**

ENTOSPHEMUS TRIDENTATUS
PACIFIC LAMPREY

HABITAT: MUDDY SAND NON-VEGETATED BENTHIC

LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM
AXINOPSIDA SERICATA
CLAM
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CARDIOMYA PLANETICA
CLAM
CARDITA STEARNSII
CLAM
CARDITA VENTICOSA
CLAM
CHLAMYS HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYS HINDSI
HIND'S CLAM
CLINOCARDIUM NUTALLI
BASKET COCKLE
COMPSONYAX SUBDIAPHANA
CLAM
CRENELLA COLUMBIANA
CLAM
EUPLEXAURA MARKI
SEA PEN
HUXLEYIA MUNITA
CLAM
LIEOPTULUS QUADRANGULARIS
SEA PEN
LYONSIA STRIATA
CLAM
NEMOCARDIUM CENTRIFILOSUM
HUNDRED-LINED COCKLE
NUCULA TENUIS
CLAM
NUCULANA AUSTINI
CLAM
NUCULANA PERNULS
CLAM
PATINOPECTIN CAURINUS
WEATHERVANE SCALLOP
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTHACA STAMINEA
ROCK COCKLE
PSEPHIDIA LORDI
CLAM
PSOLUS SQUAMATUS
SEA CUCUMBER
SAXICAVA ARCTICA
ARCTIC SAXICLAVE CLAM
SCLEROPTILUM
SEA PEN
SOLEMYA AGASSIZI
AWNING CLAM
STYLATULA ELONGATA
SEA PEN
THRACIA CURTA
CLAM
THRACIA TRAPEZOIDES
CLAM
THYASIRA BARBARENSIS
CLAM
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM

YOLDIA LIMATULA GAIRDERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

CANCER MAGISTER
DUNGENESS CRAB
OLIVELLA
OLIVE SNAIL
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

APHRODITE JAPONICA
POLYCHAETE
ARCTONOE PULCHRA
POLYCHAETE
CARINOMELLA LACTEA
RIBBON WORM
CEREBRATULUS CALIFORNIENSIS
RIBBON WORM
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
ENIPO GRACILIS
POLYCHAETE
GLYCERA AMERICANA
POLYCHAETE
HAPLOSCOLOPUUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CACOIDES
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS CORNUTA
POLYCHAETE
NEPHTYS FERRUGINEA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
AGONUS ACIPENSERINUS
STURGEON POACHER
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS PULCHELLUS
SHOWY SNAILFISH
LUMPENUS SAGITTA
SNAKE PRICKLEBACK
LYCONECTES ALEUTENSIS
DWARF WRYMOUTH
MICROGADUS PROXIMUS
PACIFIC TOMCOD
POROCLINIS ROTHROCKI
WHITEBARRED BLENNY
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
RADULINUS ASPRELLUS
SLIM SCULPIN
XENERETHMUS LATIFRONS
BLACKTIP POACHER

TROPHIC LEVEL: (-)
INVERTEBRATES

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

TROPHIC LEVEL: (0)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPPIASTERIA SPINOSA
SEA STAR
LAFOEA ADMATA
HYDROID
LAFOEA DUMOSA

HABITAT: MUDDY SAND NON-VEGETATED BENTHIC

HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
RATHBUNASTER CALIFORNICUS
SEA STAR
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

TROPHIC LEVEL: (0)
FISHES

PLEURONICHTHYS COENOSUS
C-O SOLE

HABITAT: SAND NON-VEGETATED BENTHIC

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACHAEA MITRA
DUNCECAP LIMPET

**TROPHIC LEVEL: (2) HERBIVORE
FISHES**

ASTEROTHECA PENTACANTHUS
BIGEYE POACHER

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACHAEA LIMATULA
FILE LIMPET
ANTIPLANES ABARBAREA
SNAIL
ANTIPLANES PERVERSA
SNAIL
ANTIPLANES VINOSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BENTHOCTOPUS
OCTOPUS
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CADULUS STEARNSII
TOOTH SHELL
CALLIOSTOMA ANNULATUM
SNAIL
CHIONECTES BAIRDI
TANNER CRAB
CHIONECTES OPILIO
TANNER CRAB
CHIONECTES TANNERI
TANNER CRAB
COLUS ROSEUS
SNAIL
COLUS SERVINUS
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DENTALIUM
TOOTH SHELL
DERMASTERIAS IMBRICATA
LEATHER STAR
EPITONIUM INDIANORUM
SNAIL
EVASTERIAS TROSCHELI
SEA STAR
FUSITRITON OREGONENSIS
OREGON TRITON
HENRICIA LEVISCULA
BLOOD STAR
ISCHNOCHITON
CHITON
LEPIDAZONA
CHITON
LEPIDAZONA GOLISCHI
CHITON

LEPTOCHITON
CHITON
LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
METRIDIMUM FIMBRIATUM
SEA ANEMONE
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
NATICA CLAUSA
SNAIL
NEPTUNEA LYRATA
SNAIL
OCTOPUS DOLFEINI
OCTOPUS
PISASTER BREVISPINOSUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
POLINICES LEWISII
MOON SNAIL
POLINICES PALLIDUS
MOON SNAIL
POLYPUS
OCTOPUS
PTERASTER TESSELATUS ARQUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
ROSSIA PACIFICA
SQUID
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUN STAR
STYLASTERIAL FORRERI
SEA STAR
TACHYRHYNCHUS LACTEOLUM
SNAIL
TACHYRHYNCHUS PRATOMUM
SNAIL
THRASSACANTHIAS PENCILATUS
SEA STAR
TROPHON TRIPHERUS
SNAIL

**TROPHIC LEVEL: (3) CARNIVORE
FISHES**

ACIPENSER TRANSMONTANUS
WHITE STURGEON
BROSNOPHYCIS MARGINATA
RED BROTLA
CHITONOTUS PUGETENSIS
ROUGHBACK SCULPIN
CITHARICHTHYS SORDIDUS
PACIFIC SANDDAB
CITHARICHTHYS STIGMAEUS
SPECKLED SANDDAB
DASYTIS DIPTERURA
DIAMOND STINGRAY

DASYCOTTUS SETIGER
SPINYHEAD SCULPIN
EOPSETTA JORDANI
PETRALE SOLE
GADUS MACROCEPHALUS
PACIFIC COD
GLYPTOCEPHALUS ZACHIRUS
REX SOLE
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS STELLERI
WHITESPOTTED GREENLING
HEXANCHUS GRISEUS
SIXGILL SHARK
HIPPOGLOSSOIDES ELASSODON
FLATHEAD SOLE
HIPPOGLOSSUS STENCLEPIS
PACIFIC HALIBUT
HYDROLAGUS COLLIEI
RATFISH
ICELINUS FILAMENTOSUS
THREADFIN SCULPIN
ISOPSETTA ISOLEPIS
BUTTER SOLE
LYOPSETTA EXILIS
SLENDER SOLE
MICROSTOMUS PACIFICUS
DOVER SOLE
OPHIODON ELONGATUS
LINGCOD
PAROPHRYUS VETULUS
ENGLISH SOLE
PLATICHTHYS STELLATUS
STARRY FLOUNDER
PORICHTHYS NOTATUS
PLAINFIN MIDSHIPMEN
PSETTICHTHYS MELANOSTICTUS
SAND SOLE
RAJA BINOCULATA
BIG SKATE
RAJA KINCAIDI
BLACK SKATE
RAJA RHINA
LONGNOSE SKATE
RAJA STELLULATA
STARRY SKATE
SCORPAENICHTHYS MARMORATUS
CABEZON
SQUALUS ACANTHIAS
SPINY DOGFISH
TORPEDO CALIFORNICA
PACIFIC ELECTRIC RAY
TRIAKIS SEMIFASCIATA
LEOPARD SHARK

**TROPHIC LEVEL: (3) CARNIVORE
MAMMALS**

EUMETOPIAS JUBATUS
NORTHERN OR STELLAR SEA LION
KOGIA BREVICEPS
PYGMY SPERM WHALE
PHOCA VITULINA
HARBOR SEAL
PHOCOENA PHOCOENA
HARBOR PORPOISE
PHYSETER CATODON
SPERM WHALE
ZALOPHUS CALIFORNIANUS
CALIFORNIA SEA LION

HABITAT: SAND NON-VEGETATED BENTHIC

ZIPHEUS CAVIROSTRIS
CUVIER'S OR GOOSE BEAKED WHALE

TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES

ALLOCENTROTUS FRAGILIS
SEA URCHIN
AMPHIOPLUS STRONGYLOPLAX
BRITTLE STAR
APIHURA SARSII
BRITTLE STAR
BANKIA SETACEA
TEREDO
BRISASTER LATIFRONS
SEA URCHIN
DENDRASTER EXCENTRICUS
SAND DOLLAR
LOPHOLITHOIDES FORAMINATUS
BOX CRAB
LOPHOLITHOIDES MANDTII
PUGET SOUND KING CRAB
LUMBRINERIS BICIRRATA
POLYCHAETE
LUMBRINERIS SIMILABRIS
POLYCHAETE
MACOMA ALCAREA
CHALKY CLAM
MAGELONA JAPONICA
POLYCHAETE
MOLPADIA INTERMEDIA
SEA CUCUMBER
OPHIOPHOLIS BAKERI
BRITTLE STAR
OPHIURA LUTKENI
BRITTLE STAR
PARASTICHOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
PENTAMERA PSEUDOCALCIGERA
SEA CUCUMBER
STRONGYLOCENTROTUS ECHINOIDES
SEA URCHIN
TELLINA BUTTONI
BUTTON'S TELLIN CLAM
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD-EATER

TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES

AMPHISSA VERSICOLOR
SNAIL
GORGONOCEPHALUS CARYI
BASKET STAR
OENOPOTA
SNAIL
PSEUDARCHASTER PARELII ALASCEN
SEA STAR

TROPHIC LEVEL: (6) PARASITE
FISHES

LAMPETRA AYRESI
RIVER LAMPREY

TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES

ACILIA CASTRENSIS
DIVARICATE NUT CLAM

AXINOPSIDA SERICATA
CLAM
CARDIOMYA OLDROYDI
CUSPIDARIA CLAM
CARDIOMYA PLANETICA
CLAM
CARDITA STEARNSII
CLAM
CARDITA VENTICOSA
CLAM
CHLAMYS HASTATUS HERICIUS
PACIFIC PEAR SCALLOP
CHLAMYS HINDSI
HIND'S CLAM
CLINOCARDIUM MUTALLI
BASKET COCKLE
COMPSOMYAX SUBDIAPHANA
CLAM
CRENELLA COLUMBIANA
CLAM
EUPLEXAURA MARKI
SEA PEN
HUXLEYIA MUNITA
CLAM
LIEOPTULUS QUADRANGULARIS
SEA PEN
LYONSIA STRIATA
CLAM
NEMOCARDIUM CENTRIFILOSUM
HUNDRED-LINED COCKLE
MUCULA TENUIS
CLAM
MUCULANA AUSTINI
CLAM
MUCULANA PERNULS
CLAM
PATINOPECTIN CAURINUS
WEATHERVANE SCALLOP
PECTEN CAURINUS
GIANT PACIFIC SCALLOP
PROTOHACA STAMINEA
ROCK COCKLE
PSEPHIDIA LORDI
CLAM
PSOLUS SQUAMATUS
SEA CUCUMBER
SAXICAVA ARCTICA
ARCTIC SAXICLAVE CLAM
SCLEROPTILUM
SEA PEN
SILIGUA PATULA
PACIFIC RAZOR CLAM
SILIGUA SLOATI
SLOAT'S RAZOR CLAM
SOLEMYA AGASSIZI
AWNING CLAM
STYLATULA ELONGATA
SEA PEN
THRACIA CURTA
CLAM
THRACIA TRAPEZOIDES
CLAM
THYASIRA BARBARENSIS
CLAM
VENERICARDIA VENTRICOSA
STOUT CARDITA CLAM
YOLDIA LIMATULA GAIRDERI
FILE YOLDIA CLAM

TROPHIC LEVEL: (8) SCAVENGER

INVERTEBRATES

CANCER MAGISTER
DUNGENESS CRAB
OLIVELLA
OLIVE SNAIL
OLIVELLA BIPLICATA
PURPLE OLIVE SNAIL
PAGURISTES TURGIDUS
HERMIT CRAB
PAGURUS ALEUTICUS
HERMIT CRAB
PAGURUS OCHOTENSIS
HERMIT CRAB
PAGURUS TANNERI
HERMIT CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

APHRODITE JAPONICA
POLYCHAETE
ARCTONOE PULCHRA
POLYCHAETE
CARINOMELLA LACTEA
RIBBON WORM
CEREBRATULUS CALIFORNIENSIS
RIBBON WORM
CHORILLIA LONGIPES
SHRIMP
CRANGON COMMUNIS
SHRIMP
CRANGON FRANCISORUM
SHRIMP
ENIPO GRACILIS
POLYCHAETE
GLYCERA AMERICANA
POLYCHAETE
HAPLOSCOLOPOUS ELONGATUS
POLYCHAETE
MAGELONA PAPILLICORNIS
POLYCHAETE
MAGELONA PITELKAI
POLYCHAETE
NEPHTYS CACOIDES
POLYCHAETE
NEPHTYS CILIATA
POLYCHAETE
NEPHTYS CORNUTA
POLYCHAETE
NEPHTYS FERRUGINEA
POLYCHAETE
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS DANAE
DOCK SHRIMP
PANDALUS JORDANI
OCEAN PINK SHRIMP
PANDALUS PLATYCEROS
SPOT SHRIMP
PISTA CRISTATA
POLYCHAETE
PISTA FIMBRIATA
POLYCHAETE
PRAXILELLA GRACILIS
POLYCHAETE
SPIRONTOCARIS LAMELLICORNIS
SHRIMP
SPIRONTOCARUS HOLMESI
SHRIMP

HABITAT: SAND NON-VEGETATED BENTHIC

**TROPHIC LEVEL: (9) INVERTEBRATE
EATER - FISHES**

AGONOPSIS EMMELANE
NORTHERN SPEARNOSE POACHER
AGONUS ACIPENSERINUS
STURGEON POACHER
AMMOYTES HEXAPTERUS
PACIFIC SAND LANCE
AMPHISTICHUS RHODOTERUS
REDTAIL SURFPERCH
CLUPEA HARENGUS PALLASI
PACIFIC HERRING
CYMATOGASTER AGGREGATA
SHINER PERCH
EMBIOTOCA LATERALIS
STRIPED SEAPERCH
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN
LIPARIS PULCHELLUS
SHOWY SNAILFISH
MICROGADUS PROXIMUS
PACIFIC TOMCOD
POROCLINIS ROTHROCKI
WHITEBARRED BLENNY
PSYCHROLUTES PARADOXUS
TADPOLE SCULPIN
RADULINUS ASPRELLUS
SLIM SCULPIN
XENERETMUS LATIFRONS
BLACKTIP POACHER

**TROPHIC LEVEL: (-)
INVERTEBRATES**

ANCISTROLEPSIS
SNAIL
COLUS HALIDONUS
SNAIL

**TROPHIC LEVEL: (0)
INVERTEBRATES**

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
HIPASTERIA SPINOSA

SEA STAR
LAFOEA ADNATA
HYDROID
LAFOEA DUMOSA
HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
NEPTUNEA PRIBILOFFENSIS
SNAIL
PLUMULARIA ALICIA
HYDROID
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

**TROPHIC LEVEL: (0)
FISHES**

PLEURONICHTHYS COENOSUS
C-O SOLE

HABITAT: KELP FORESTS VEGETATED BENTHIC

**TROPHIC LEVEL: (1) PRODUCER
PLANTS**

AGARDHIELLA TENERA
RED ALGAE
AGARUM FIMBRIATUM
KELP
ANTITHAMNION PACIFICUM
RED ALGAE
BOTRYOCLADIA PSEUDODICHOTOMA
RED ALGAE
CALLOPHYLLIS EDENTATA
RED ALGAE
CERAMIIUM CALIFORNICUM
RED ALGAE
CONSTANTINEA SUBULIFERA
RED ALGAE
CRYPTOPLEURA RUPRECHTIANA
RED ALGAE
DELESSERIA DECIPIENS
RED ALGAE
DILSEA CALIFORNICA
RED ALGAE
EGREGIA MENZIESII
KELP
EISENIA ARBOREA
KELP
GELIDIUM ROBUSTUM
RED ALGAE
GIGARTINA EXASPERATA
RED ALGAE
GRATELOUPIA CALIFORNICA
RED ALGAE
HYMENENA SETCHELLII
RED ALGAE
LAMINARIA GROENLANDICA
KELP
LAMINARIA SACCHARINA
KELP
LAMINARIA SETCHELLII
KELP
MACROCYSTIS INTEGRIFOLIA
GIANT KELP
NEREOCYSTIS LUETKEANA
GIANT KELP
OPUNTIELLA CALIFORNICA
RED ALGAE
PHYLOSPADIX TORREYI
SEA GRASS
PLOCAMIIUM PACIFICUM
RED ALGAE
POLYNEURA LATISSIMA
RED ALGAE
PORPHYRA PERFORATA
RED ALGAE
PRIONITIS LANCEOLATA
RED ALGAE
PTERYGOPHORA CALIFORNICA
KELP
RHODOMENIA PERTUSA
RED ALGAE
RHODOPTILUM PLUMOSUM
RED ALGAE
SMITHORA NAIADUM
RED ALGAE

STENOGRAMME INTERUPTA
RED ALGAE

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACMAEA MITRA
DUNCECAP LIMPET
STRONGYLOCENTROTUS FRANSCANU
GIANT RED URCHIN
STRONGYLOCENTROTUS PURPURATUS
PURPLE SEA URCHIN

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACMAEA LIMATULA
FILE LIMPET
ANTIPLANES PERVERSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR
BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CALLIOSTOMA ANNULATUM
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DERMASTERIAS IMBRICATA
LEATHER STAR
EVASTERIAS TROSCHELI
SEA STAR
FUSITRITION OREGONENSIS
OREGON TRITON
HENRICIA LEVICULA
BLOOD STAR
LISCHKEIA CIDARIS
SNAIL
LUIDIA FOLIATA
SAND STAR
MITRELLA GOULDI
SNAIL
NASSARIUS FOSSATUS
SNAIL
NASSARIUS MENDICUS
SNAIL
PISASTER BREVISPINOUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
PTERASTER TESSELLATUS ARCUATUS
SLIME STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
SCYRA ACUTIFRONS
MASKING CRAB
SOLASTER DAWSONI
MORNING SUN STAR
SOLASTER STIMPSONI
SUM STAR

**TROPHIC LEVEL: (3) CARNIVORE
FISHES**

BRACHYISTIUS FRENATUS
KELP PERCH
HEXAGRAMMOS DECAGRAMMUS
KELP GREENLING
HEXAGRAMMOS STELLERI
WHITESPOTTED GREENLING
OPHIOIDON ELONGATUS
LINGCOD
SCORPAENICHTHYS MARMORATUS
CEBEZON
SEBASTES CAURINUS
COPPER ROCKFISH
SEBASTES MALIGER
QUILLBACK ROCKFISH
SEBASTES MYSTINUS
BLUE ROCKFISH

SEBASTODES MELANOPS
BLACK SEABASS
SQUALUS ACANTHIAS
SPINY DOGFISH

**TROPHIC LEVEL: (3) CARNIVORE
MAMMALS**

ENHYDRA LUTRIS
SEA OTTER
EUMETOPIAS JUBATUS
NORTHERN OR STELLAR SEA LION
PHOCA VITULINA
HARBOR SEAL
ZALOPHUS CALIFORNIAMUS
CALIFORNIA SEA LION

**TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES**

BANKIA SETACEA
TEREDO
PARASITICHOPIUS CALIFORNICUS
GIANT RED SEA CUCUMBER
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

**TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES**

AMPHISSA VERSICOLOR
SNAIL
OENOPOTA
SNAIL
ONCOSOECIA
BRYOZOAN

**TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES**

BALANUS CREMATUS
BARNACLE
BUGULA FLABELLATA
BRYOZOAN
CELLARIA MANDIBULATA
BRYOZOAN
CLINOCARDIUM MUTALLI
BASKET COCKLE
LAGENIPORA PUNCTULATA
BRYOZOAN
MEMOCARDIUM CENTRIFILISUM
HUNDRED-LINED COCKLE
PECTEN CAURINUS

HABITAT: KELP FORESTS VEGETATED BENTHIC

GIANT PACIFIC SCALLOP
PSOLUS SQUAMATUS
SEA CUCUMBER
SAXICAVA ARCTICA
ARCTIC SAXICAVE CLAM
TEREBRATALIA TRANSVERSA
LAMP SHELL

TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES

PHYLLOLITHOIDES PAPILLOSUS
PAPILLA CRAB

TROPHIC LEVEL: (9) INVERTEBRATE
EATER - INVERTEBRATES

BALANOPHYLLA ELEGANS
STONY CORAL
NEPHTYS LONGOSETOSA
POLYCHAETE
PANDALUS DANAE
DOCK SHRIMP

TROPHIC LEVEL (9) INVERTEBRATE
EATER - FISHES

CLUPEA HARENGUS PALLASI
PACIFIC HERRING
CYMATOGASTER AGGREGATA
SHINER PERCH
EMBIOTOCA LATERALIS
STRIPED SEAPERCH
LEPTOCOTTUS ARMATUS
PACIFIC STAGHORN SCULPIN

TROPHIC LEVEL: (0)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
ALLOPORA VERRILLI
HYDROCORAL
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
HALECIUM CORRUGATUM
HYDROID
LAFOEA ADMATA
HYDROID
LAFOEA DUMOSA

HYDROID
LAFOEA FRUTICOSA
HYDROID
LAFOEA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLOW STAR
PLUMULARIA ALICIA
HYDROID
PUGETTIA ARACILLIS
KELP CRAB
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

HABITAT: SURFGRASS VEGETATED BENTHIC

**TROPHIC LEVEL: (1) PRODUCER
PLANTS**

AHNFELTIA CONCINNA
RED ALGAE
AHNFELTIA Plicata
RED ALGAE
ALARIA MARGINATA
KELP
ANTITHAMNION PACIFICUM
RED ALGAE
BOSSIELLA CALIFORNICA
CORALLINE RED ALGAE
BOSSIELLA PLUMOSA
CORALLINE RED ALGAE
BOTRYOCLADIA PSEUDODICHOTOMA
RED ALGAE
CALLIARTHON REGENERANS
CORALLINE RED ALGAE
CALLIARTHON SCHMITTII
CORALLINE RED ALGAE
CALLOPHYLLIS EDENTATA
RED ALGAE
CERAMIMUM CALIFORNICUM
RED ALGAE
CONSTANTINEA SIMPLEX
RED ALGAE
CONSTANTINEA SUBULIFERA
RED ALGAE
CORALLINA VANCOUVERIENSIS
CORALLINE RED ALGAE
CRYPTOPLEURA RUPRECHTIANA
RED ALGAE
CYSTOSEIRA GEMINATA
KELP
DELESSERIA DECIPIENS
RED ALGAE
DILSEA CALIFORNICA
RED ALGAE
EGREGIA MENZIESII
KELP
EISENIA ARBOREA
KELP
ERYTHROPHYLLUM DELESSERIOIDES
RED ALGAE
GASTROCLONIUM COULTERI
RED ALGAE
GELIDIUM ROBUSTUM
RED ALGAE
GIGARTINA EXASPERATA
RED ALGAE
GLOIOSIPHONIA VERTICILLARIS
RED ALGAE
GRACILARIOPSIS SJOESTEDII
RED ALGAE
GRATELOUPIA CALIFORNICA
RED ALGAE
GYMNOGONGRUS PLATYPHYLLUS
RED ALGAE
HYMENENA FLABELLIGERA
RED ALGAE
HYMENENA SETCHELLII
RED ALGAE
IRIAOEA CORDATA
RED ALGAE

LAMINARIA GROENLANDICA
KELP
LAMINARIA SACCHARINA
KELP
LAMINARIA SETCHELLII
KELP
LAURENCIA SPECTABILIS
RED ALGAE
MACROCYSTIS INTEGRIFOLIA
GIANT KELP
MEMBRANOPTERA PLATYPHYLLA
RED ALGAE
MICROCLAUDIA COULTARI
RED ALGAE
OPUNTIELLA CALIFORNICA
RED ALGAE
PHYLOSPADIX SCOLIERI
SEA GRASS
PHYLOSPADIX TORREYI
SEA GRASS
PLOCAMIMUM PACIFICUM
RED ALGAE
POLYNEURA LATISSIMA
RED ALGAE
PORPHYRA PERFORATA
RED ALGAE
PRIONITIS LANCEOLATA
RED ALGAE
PTEROSIPHONIA BIPIUNATA
RED ALGAE
PTERYGOPHORA CALIFORNICA
KELP
PTILOTA ASPLENOIDES
RED ALGAE
RHODOGLOSSUM LATISSIMUM
RED ALGAE
RHODOMENIA PALMATA
RED ALGAE
RHODOMENIA PERTUSA
RED ALGAE
RHODOPTILUM PLUMOSUM
RED ALGAE
SARGASSUM MUTICUM
KELP
SCHIZYMENTIA PACIFICA
RED ALGAE
SMITHORA NAIADUM
RED ALGAE
STENOGRAMME INTERRUPTA
RED ALGAE

**TROPHIC LEVEL: (2) HERBIVORE
INVERTEBRATES**

ACHAEA MITRA
DUNCECAP LIMPET
STRONGYLOCENTROTUS FRANCISCANU
GIANT RED URCHIN
STRONGYLOCENTROTUS PURPURATUS
PURPLE SEA URCHIN

**TROPHIC LEVEL: (3) CARNIVORE
INVERTEBRATES**

ACHAEA LIMATULA
FILE LIMPET
ANTIPLANES PERVERSA
SNAIL
ASTROPECTIN ARMATUS
SAND STAR

BORETROPHON STUARTI
SNAIL
BUCCINUM STRIGILLATUM
SNAIL
CALLIOSTOMA ANNULATUM
SNAIL
CROSSASTER PAPOSUS
ROSE STAR
DERMASTERIAS IMBRICATA
LEATHER STAR
LISCHKEIA CIDARIS
SNAIL
MITRELLA GOULDI
SNAIL
MASSARIUS FOSSATUS
SNAIL
MASSARIUS MENDICUS
SNAIL
PISASTER BREVISPINOUS
SHORT-SPINED PISASTER
PISASTER GIGANTEUS
GIANT STAR
PISASTER OCHRACEOUS
PURPLE STAR
PUNCTURELLA CUCULATA
LIMPET
PYCNOPODIA HELIANTHOIDES
SUNFLOWER STAR
SOLASTER STIMPSONI
SUN STAR

**TROPHIC LEVEL: (4) DETRITIVORE
INVERTEBRATES**

BANKIA SETACEA
TEREDO
PARASITICOPUS CALIFORNICUS
GIANT RED SEA CUCUMBER
XYLOPHAGA WASHINGTONA
WASHINGTON WOOD EATER

**TROPHIC LEVEL: (5) OMNIVORE
INVERTEBRATES**

AMPHISSA VERSICOLOR
SNAIL
OENOPOTA
SNAIL
ONCOSOECIA
BRYOZOAN

**TROPHIC LEVEL: (7) FILTER FEEDER
INVERTEBRATES**

BUGULA FLABELLATA
BRYOZOAN
CELLARIA MANDIBULATA
BRYOZOAN
CLINOCARDIUM MUTALLI
BASKET COCKLE
LAGENIPORA PUNCTULATA
BRYOZOAN
PECTEN CALURINUS
GIANT PACIFIC SCALLOP
TEREBRATALIA TRANSVERSA
LAMP SNELL

**TROPHIC LEVEL: (8) SCAVENGER
INVERTEBRATES**

HABITAT: SURFGRASS VEGETATED BENTHIC

PHYLLOLITHOIDES PAPILLOSUS
PAPILLA CRAB

TROPHIC LEVEL: (Q)
INVERTEBRATES

ABIETINARIA
HYDROID
ABIETINARIA ABIETINA
HYDROID
ABIETINARIA ALEXANDERI
HYDROID
ABIETINARIA TRASKI
HYDROID
ACRYPTOLARIA
HYDROID
AGLAOPHENIA
HYDROID
AGLAOPHENIA DIEGENSIS
HYDROID
AGLAOPHENIA INCONSPICUA
HYDROID
AGLAOPHENIA OCTOCARPA
HYDROID
CAMPANULARIA
HYDROID
CAMPANULARIA VERTICILLATA
HYDROID
CAMPANULARIA VOLUBILIS
HYDROID
MALECIIUM CORRUGATUM
HYDROID
LAFOEIA ADNATA
HYDROID
LAFOEIA DUMOSA
HYDROID
LAFOEIA FRUTICOSA
HYDROID
LAFOEIA GRACILLIMA
HYDROID
MEDIASTER AEQUALIS
VERMILLON STAR
PLUMULARIA ALICIA
HYDROID
SERTULARELLA TURGIDA
HYDROID
THUIARA ROBUSTA
HYDROID

HABITAT: SURFGRASS VEGETATED BENTHIC