

Zone 28

Shore	south	Zone 28 is composed of Seldovia
Total Surveys	2	
Start Point	west base of MacDonald Spit	
End Point	Seldovia Point	
Dates Walked	1988, 91	
Spring Surveys	2	
Fall Surveys	0	
First Walked	1988	
Last Walked	1991	
Total Person-Hours	60	
Total Trash Bags Collected	1	
Total Estimated Weight of Trash Collected	0	

General Info

Date	30-Apr-88	28-Apr-91				TOTALS
Subzone	26	25				
Start Time		1000				
End Time		1600				
Lowest Tide						
	at time					
Temperature (F)						
Sky						
Vertical Zones Walked:						
	High	x				
	Middle	x				
	Low	x				
# of Observers	12	4				
Hours Spent	3	6				
Person-Hours	36	24	0	0	0	
Shoreline Walked (miles)	2					
Total Trip Mileage						
Did Observers . . .						
	Hike?	x	x			
	Kayak?					
	Other (specify)?					
Trash Bags Collected			1			
Estimated Weight of Collected Trash						

Wildlife *Birds*

Loons	1				1
Sea Ducks	4				4
Other Ducks and Geese					0
Bald Eagles					
	Adults	2	1		3
	Immatures	1			1
	Nests				0

Shorebirds			0
Seabirds	2	427	429
Crows and Ravens		2	2
Others (see separate Bird list)	32	1	33

Domestic Mammals

Cattle			0
Horses			0
Dogs			0
Other			0

Land Mammals

Moose			
	Adults		0
	Calves		0
Black Bears			0
Brown Bears			0
Land/River Otters			0
Red Squirrels			0
Tracks Identified		hare, squirrel	0
Other			0

Marine Mammals

Sea Otters		2	2
Harbor Seals		2	2
Steller's Sea Lions			0
Harbor Porpoises			0
Whales			
	Beluga		0
	Orca		0
	Minke		0
	Humpback		0
	Gray		0
	Unknown		0
Other/Unidentified			0

Please note any unusual wildlife sightings River otter trail.

Invertebrates

(from the Intertidal Biodiversity Checklist)

Please note any interesting observations or changes in abundance here Thousands of black clusters of worms very thin bunched

Sponges

Breadcrumb Sponge
Purple Sponge

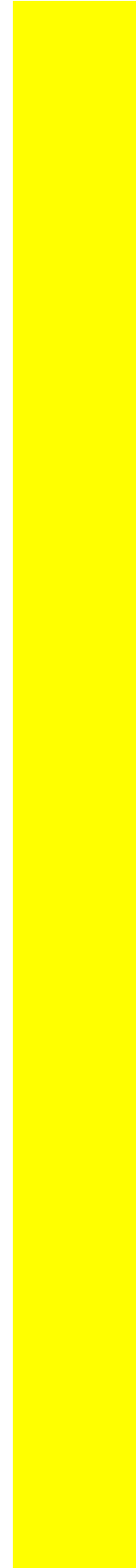
Cnidarians

Anemones

Burrowing Green Anemone
Orange Colonial Anemone
Frilled (Plumose) Anemone
Christmas Anemone

x

Sea Jellies	x	
Moon Jelly		
Many-ribbed Hydromedusa		
Compass Jelly		
Lion's Mane Jelly		
Worms	x	
Giant Flatworm		
Nemerteans		
Amphiporus (Two-spotted) Ribbon Worm		
Red Ribbon Worm		
Echiurans		
Fat Innkeeper (Alaskan Spoonworm)		
Sipunculids		
Peanut Worm		
Annelids		
Mussel Worm (Clam Worm)		
Northern Feather Duster Worm (Carpet Worm)		
Cone Worm		
Calcareous Tube Worm		
Spiral Tube Worm		
Scaleworm		
Brachiopods		
Transverse Lampshell		
Mollusks		
Chitons	x	x
Gumboot Chiton		
Black Katy Chiton		
Brick Chiton		
Mossy Chiton		
Tiger Chiton		
Lined Chiton		
Limpets	x	x
Dunce Cap Limpet		
Plate Limpet		
Snails		x
Hairy Triton		
Sitka Periwinkle		
Helicina Margarite		
Puppet Margarite		
Aleutian Moonsnail	x	
Ridged Neptune		
Channeled Dogwinkle		
Emarginate Dogwinkle		
Frilled Dogwinkle		
File Dogwinkle		
Big-mouth Whelk		
Nudibranchs		
Maned Nudibranch		
False Sea Lemon (False Lemon Peel)		
Orange-tipped Nudibranch		
Opalescent Nudibranch		
Bushy-backed Nudibranch		



Clams		X
Nuttal's Cockle	X	
Northwest Ugly Clam		
Arctic Rock Borer		
Baltic Macoma		
Stained Macoma		
Pacific Surf Clam		
Truncated Mya		
Steamer Clam (Pacific Littleneck Clam)		
Butter Clam		
Razor Clam		
Mussels	X	X
Horse Mussel		
Pacific Blue Mussel		
Scallops		
Pink Scallop		
Jingles		
Rock Jingle		
Cephalopods		
Giant Pacific Octopus		
Stubby Squid		
Arthropods		
Barnacles	X	X
Acorn Barnacle		
Pelagic Gooseneck Barnacle		
Thatched Acorn Barnacle		
Crabs	X	X
Dungeness Crab		
Black-clawed Cancer Crab		
Red Hermit Crab		
Striped Hermit Crab		
Decorator Crab		
Carapace Crab		
Red King Crab		
Northern Kelp Crab		
Helmet Crab		
Shrimp		
Broken-back Shrimp		
Coonstripe Shrimp		
Sand Shrimp		
Isopods		
Pillbug Isopod		
Rockweek Isopod		
Amphipods	X	
Skeleton Shrimp		
Small Beach Hopper		
Echinoderms		
Sea Stars	X	X
Little Six-rayed Star		
Red-banded Star (Rainbow Star)		
Ochre Star		
Sunflower Star		

Morning Sun Star
 Stimpson's Sun Star
 Rose Star
 Leather Star
 True Star (False Ochre Star, Mottled Star)
 Blood Star
Brittle Stars
 Serpent Star
 Daisy Brittle Star
Sea Urchins
 Green Sea Urchin
 Red Sea Urchin
Sea Cucumbers
 Silky Burrowing Cucumber
 Orange Cucumber (Red Cucumber)
 Tar-spot Cucumber (Black Cucumber)
Sand Dollars
 Green-spined Sand Dollar (Northern Sand Dollar)

x x

Chordates

Tunicates
 Colonial Tunicate (Sea Pork)
 Sea Peach

Seaweeds

Green Seaweed		x
	Band	
	Attached	
	Washed Up	
Red Seaweed		x
	Band	
	Attached	
	Washed Up	
Rockweed		
	Band	
	Attached	
	Washed Up	
Kelps		
	Band	
	Attached	
	Washed Up	
Eelgrass		
	Band	
	Attached	
	Washed Up	

Beach Substrate

Type

Bluff and Cliff Erosion

Comments Small slides along bank.

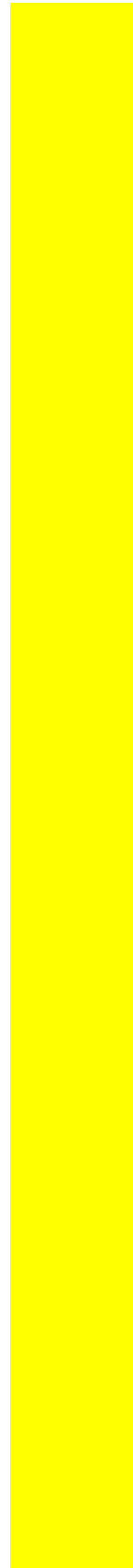


Human Activities

Walking	Signs of Actual observation	1	
Camping	Signs of Actual observation	1	
Partying	Signs of Actual observation		
Fire Pits	Signs of Actual observation		
Trash Accumulations	Signs of Actual observation	1	1
Clamming	Signs of Actual observation	1	
Fishing	Signs of Actual observation	1	
Coaling	Signs of Actual observation		
Picnicking	Signs of Actual observation		
Horseback Riding	Signs of Actual observation		
Harvesting (specify)	Signs of Actual observation		
Other (specify)			

Vehicle Use

Cars/Trucks	Sets of tracks Actual observation	1	
ATVs/Motorcycles	Sets of tracks Actual observation		1
Bicycles	Sets of tracks Actual observation		
Aircraft	Sets of tracks Actual observation		
Other (specify)			



Structures on the Beach

Buildings 3
Docks
Driftwood Structures
Riprapped Areas
Erosion Control Structures
Abandoned Vehicles
Abandoned Boats
Boat Parts

Archaeological Sites

Shell Middens 1 old cave (tidal)
Other (specify)

Outfalls or Pipes

Number 1
Comments

Toxic Pollution

Fuel (oil, gas, etc.)
Lubricating Oil
Paint
Batteries

Trash & Debris

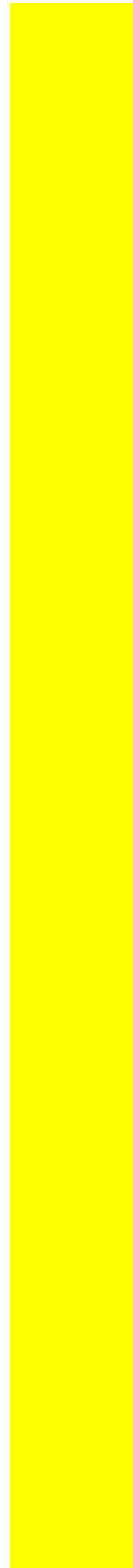
(from International Coastal Cleanup Data Card)

Shoreline and Recreational Activities

Bags (Paper & Plastic)
Balloons
Beverage Bottles, plastic, 2-liter or less
Beverage Bottles, glass
Beverage Cans
Caps, Lids
Clothing, Cloth
Cups, Plates, Forks, Knives, Spoons
Food Wrappers/Containers
6-pack Holders
Pull Tabs
Shotgun Shells/Wadding
Straws, Stirrers
Toys

Ocean/Waterway Activities

Bait Containers/Packaging
Bleach/Cleaner Bottles
Buoys/Floats
Crab/Lobster/Fish Traps
Crates
Fishing Line
Fishing Lures



Fishing Nets
Light Bulbs/Tubes
Oil/Lube Bottles
Pallets
Plastic Sheeting/Tarps
Rope/cable
Strapping Bands

Smoking-Related Activities

Cigarettes/Cigarette Filters
Cigarette Lighters
Cigar Tips
Tobacco Packaging/Wrappers

Dumping Activities

Appliances (refrigerators, washers, etc.)
Batteries
Building Materials
Cars/Car Parts
55-gallon Drums
Tires

Medical/Personal Hygiene

Condoms
Diapers
Syringes
Tampons/Tampon Applicators

Debris Items of Local Concern

Styrofoam Pieces
Plastic Pieces
Paper products
Metal Pieces
Other

Entangled Animals

Type of Animal
Form of Entangling Debris
Comments

Most Peculiar Item Collected?

Comments

Glass, met Plastic containers common. Other plastic, me

Additional Observations and Comments

Boys explored everywhere.

subzones 25 and 26.

0 0 0 0 0 0 0 0 0

in balls under rocks.

etal, fishing gear uncommon. Aluminum cans, visqueen, vehicle/boat parts rare.

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