Zone 3

Shore north
Total Surveys 14
Start Point Point
Start Lat/Long
End Point Eroding House
End Lat/Long
Dates Walked 1987-88, 90, 92, 96, 98-02, 05, 07-08 13-Sep
Spring Surveys 6
Fall Surveys 12
First Walked 1987
Last Walked 2008
Total Person-Hours 369.2 3.5
Total Trash Bags Collected 56
Total Estimated Weight of Trash Collected 725

General Info

Date 25-Apr-87 30-Apr-88 30-Apr-88 29-Apr-90 9-May-92
Start Time 1600
End Time 1700
Lowest Tide -2.6

at time 1229

Temperature (F)

Sky

Vertical Zones Walked:

High x x
Middle x x
Low x

# of Observers 2 3 5 2 3
Hours Spent 3 3.5 3 1 4
Person-Hours 6 10.5 15 2 12
Shoreline Walked (miles) 3 7 3 1
Total Trip Mileage

Did Observers . . .
Hike? x x x x
Kayak?
Other (specify)?

Trash Bags Collected

Estimated Weight of Collected Trash

Wildlife

Birds

Loons 1
Sea Ducks 54 78 105
Other Ducks and Geese 6
Bald Eagles

Adults 3 2 1 7
Immatures 1 6
Nests 1
Shorebirds 4 2 2
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<th>Group</th>
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<tr>
<td>Seabirds</td>
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<td>Crows and Ravens</td>
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<td>Others (see separate Bird list)</td>
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**Domestic Mammals**

- Cattle
- Horses
- Dogs
- Other

**Land Mammals**

- Moose
  - Adults
  - Calves
- Black Bears
- Brown Bears
- Land/River Otters
- Red Squirrels
- Tracks Identified
  - squirrel
  - dog
- Other

**Marine Mammals**

- Sea Otters
- Harbor Seals
- Steller's Sea Lions
- Harbor Porpoises
- Whales
  - Beluga
  - Orca
  - Minke
  - Humpback
  - Gray
  - Unknown

| Other/Unidentified | Harbor seal pup on beach seemed | Wood frog | 1 sea otter |

**Invertebrates**

*(from the Intertidal Biodiversity Checklist)*

**Please note any unusual wildlife sightings**

**Please note any interesting observations or changes in abundance here**

**Sponges**

- Breadcrumb Sponge
- Purple Sponge

**Cnidarians**

**Anemones**

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

**Sea Jellies**
Moon Jelly
Many-ribbed Hydromedusa
Compass Jelly
Lion's Mane Jelly

**Worms**

Giant Flatworm

**Nemertean**s
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**
Gumboot Chiton
Black Katy Chiton
Brick Chiton
Mossy Chiton
Tiger Chiton
Lined Chiton

**Limpets**
Dunce Cap Limpet
Plate Limpet

**Snails**
Hairy Triton
Sitka Periwinkle
Helicina Margarite
Puppet Margarite
Aleutian Moonsnail
Rridged 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**
Nuttal's Cockle
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**
Horse Mussel
Pacific Blue Mussel

**Scallops**
Pink Scallop

**Jingles**
Rock Jingle

**Cephalopods**
Giant Pacific Octopus
Stubby Squid

**Arthropods**

**Barnacles**
Acorn Barnacle
Pelagic Gooseneck Barnacle
Thatched Acorn Barnacle

**Crabs**
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**
Skeleton Shrimp
Small Beach Hopper

**Echinoderms**

**Sea Stars**
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)

**Chordates**

**Tunicates**
Colony Tunicate (Sea Pork)
Sea Peach

**Seaweeds**
Green Seaweed
Red Seaweed
Rockweed
Kelps
Eelgrass

**Beach Substrate**
Type: pebble rocky

**Bluff and Cliff Erosion**
Comments: minor severe
| **Human Activities** |  |  |
|----------------------|--------------------------|
| Walking              | Signs of 1               |
|                      | Actual observation 10    |
| Camping              | Signs of 1               |
|                      | Actual observation 6     |
| Partying             | Signs of                |
|                      | Actual observation       |
| Fire Pits            | Signs of                |
|                      | Actual observation       |
| Trash Accumulations  | Signs of 1              |
|                      | Actual observation 1     |
| Clamming             | Signs of                |
|                      | Actual observation       |
| Fishing              | Signs of                |
|                      | Actual observation       |
| Coaling              | Signs of 3              |
|                      | 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 11        |
|                 | Actual observation 1     |
| ATVs/Motorcycles| Sets of tracks 20       |
|                 | Actual observation       |
| Bicycles        | Sets of tracks           |
|                 | Actual observation       |
| Aircraft        | Sets of tracks           |
|                 | Actual observation       |
| Other (specify) |                         |


**Structures on the Beach**

Buildings
Docks
Driftwood Structures
Riprapped Areas
Erosion Control Structures
Abandoned Vehicles 1
Abandoned Boats

**Archaeological Sites**

Shell Middens
Other (specify) 1 (not described)

**Outfalls or Pipes**

Number
Comments

**Toxic Pollution**

Fuel (oil, gas, etc.)
Lubricating Oil 1
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 1
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 3
Bleach/Cleaner Bottles
Buoys/Floats 5
Crab/Lobster/Fish Traps
Crates
Fishing Line
Fishing Lures
Fishing Nets
Light Bulbs/Tubes
Oil/Lube Bottles 1
Pallets 10
Plastic Sheeting/Tarps
Rope/cable 4
Strapping Bands

**Smoking-Related Activities**
Cigarettes/Cigarette Filters
Cigarette Lighters
Cigar Tips
Tobacco Packaging/Wrappers

**Dumping Activities**
Appliances (refrigerators, washers, etc.)
Batteries
Building Materials 5
Cars/Car Parts 1 2 1
55-gallon Drums 1
Tires

**Medical/Personal Hygiene**
Condoms
Diapers
Syringes
Tampons/Tampon Applicators

**Debris Items of Local Concern**
Styrofoam pieces
Plastic Pieces 123
Paper products
Metal Pieces 3
Other

**Entangled Animals**
Type of Animal
Form of Entangling Debris
Comments

**Most Peculiar Item Collected?**

**Comments**
Metal, vehicle/boat par Junked van at Bluff Cr

**Additional Observations and Comments**
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<th>Time</th>
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<th>Weather</th>
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Partly cloudy sunny cloudy cloudy sunny sunny cloudy

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6 1 3 3 1 1
The surf was exceedingly rough, so we didn't see marine mammals. N 1 woolly ma

skull

Less and less sea life, more rock-covered sea. Large bed c

didn't do bc of time constraints and felt lik
all rocky, pebbly rocky, pebbly, rocky, pebbly, sandy pebbles, sand rocky, sandy

moderate to severe slight severe moderate to severe moderate moderate trivial
1 (driftwood)

ritual
ASH pickup. Clean, beach. Overall very clean of garbage. The beach looks similar to last year.
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**Temperature:**
- 9:00: 72°F
- 9:15: 73°F
- 9:30: 74°F
- 9:45: 75°F
- 10:00: 76°F
- 10:15: 77°F
- 10:30: 78°F
- 10:45: 79°F
- 11:00: 80°F
- 11:15: 81°F
- 11:30: 82°F
- 11:45: 83°F

**Wind Speed:**
- 9:00: 5 mph
- 9:15: 6 mph
- 9:30: 7 mph
- 9:45: 8 mph
- 10:00: 9 mph
- 10:15: 10 mph
- 10:30: 11 mph
- 10:45: 12 mph
- 11:00: 13 mph
- 11:15: 14 mph
- 11:30: 15 mph
- 11:45: 16 mph

**Visibility:**
- 9:00: 100 miles
- 9:15: 90 miles
- 9:30: 80 miles
- 9:45: 70 miles
- 10:00: 60 miles
- 10:15: 50 miles
- 10:30: 40 miles
- 10:45: 30 miles
- 11:00: 20 miles
- 11:15: 10 miles
- 11:30: 0 miles
- 11:45: 0 miles

**Humidity:**
- 9:00: 40%
- 9:15: 50%
- 9:30: 60%
- 9:45: 70%
- 10:00: 80%
- 10:15: 90%
- 10:30: 100%
- 10:45: 100%
- 11:00: 100%
- 11:15: 100%
- 11:30: 100%
- 11:45: 100%

**Cloud Cover:**
- 9:00: Mostly cloudy
- 9:15: Cloudy
- 9:30: Partly cloudy
- 9:45: Partly cloudy
- 10:00: Partly cloudy
- 10:15: Partly cloudy
- 10:30: Partly cloudy
- 10:45: Partly cloudy
- 11:00: Partly cloudy
- 11:15: Partly cloudy
- 11:30: Partly cloudy
- 11:45: Partly cloudy

**Precipitation:**
- 9:00: 0.1 in
- 9:15: 0.2 in
- 9:30: 0.3 in
- 9:45: 0.4 in
- 10:00: 0.5 in
- 10:15: 0.6 in
- 10:30: 0.7 in
- 10:45: 0.8 in
- 11:00: 0.9 in
- 11:15: 1.0 in
- 11:30: 1.1 in
- 11:45: 1.2 in
Ammoth hairball

...e much more qualified ppl were monitoring this area

...of thousands of protruding siphons--carpet worms! Massive school of thousands of transparent tiny fish

x

x

x

x
rocky, sandy, cobble, sand, cobble

and slipping, yes, areas alone, yes, yes
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am on creek runouts

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- pile of baby clothes
- pair of jeans
- cook pot
- car frame, blue funnel
- pots and pans

Also styrofoam and lots of rocks, lots of bluff erosion.

- t for high tide line.
- iteration of buoys(2) metal, glass, plastics and styrofoam noted as present.
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**Weather Conditions:**
- **Sun:** x
- **Clouds:** 1
- **High:**

| 1 | 1 | 4 | 1 | 2 | 2 | 9 |
| 1.5 | 2 | 2 | 2 | 2.5 | 4.1 | 1 |
| 1.5 | 2 | 8 | 2 | 5 | 8.2 | 9 |
| 1 | 2 | 2 | 2 | 3 | 0.25 | |
| 2 | 4 | 4 | 4 | 6 | 0.5 | |

**Walk:**
- 2
- 1
- 9
- 2
- 1
- 1

6 11
6 578
6 64
6 17
1 4
1 8
or shrimp--fascinating!
boulder, boulder, mud, sand

yes, yes, yes, pretty much everywhere
walked after storm surge and extreme high tides, lots of ig wood and styrofoam