

<u>Zone 21</u>									
Shore	south								
Total Surveys	9								
Start Point	Moosehead Point (China Poot Bay)								
Start Lat/Long									
End Point	China Poot Bay (base of McKeon Spit)								
End Lat/Long									
Dates Walked	1985, 88, 90-91, 96, 99, 2002, 2004-05								
Spring Surveys	6								
Fall Surveys	6								
First Walked	1985								
Last Walked	2005								
Total Person-Hours	151								
Total Trash Bags Collected	4								
Total Estimated Weight of Trash Collected	10								
<u>General Info</u>									
Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
Start Time						810	1230		
End Time						1010	1330		
Lowest Tide									
at time									
Temperature (F)							44	50	64
Sky							sunny	sunny	partly cloudy
Vertical Zones Walked:									
High								x	x
Middle	x	x							
Low			x				x		
# of Observers	8	12	3	2	4	11	3	2	1
Hours Spent	2.5	1.5	3	6	4	2	1	2	2
Person-Hours	20	18	9	12	16	22	3	4	2
Shoreline Walked (miles)	2.5	2	4.5	6	6	0.75	circumference of Mc		
Total Trip Mileage									
Did Observers . . .									
Hike?	x	x	x	x	x	x	x	x	x
Kayak?				x					

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
Other (specify)?					boat to China Poot Ba		boat	water taxi	
Trash Bags Collected									1
Estimated Weight of Collected Trash									
<u>Wildlife</u>									
<i>Birds</i>									
Loons				3	3	1			5
Sea Ducks			2	20	43			11	48
Other Ducks and Geese								54	
Bald Eagles									
Adults	3		6	9	10	4		14	6
Immatures				2	13			1	
Nests	2							2	
Shorebirds				72					
Seabirds	24	2	2		32	3	14	259	100
Crows and Ravens	2		2	9	50				
Others (see separate Bird list)	4	4	3	12	4			6	black glaucou
<i>Domestic Mammals</i>									
Cattle									
Horses									
Dogs	2	1	2	2					
Other									
<i>Land Mammals</i>									
Moose									
Adults									
Calves									
Black Bears									
Brown Bears									2 first
Land/River Otters									4
Red Squirrels	6		4		3			1	popu
Tracks Identified								dog or coyote	
Other	Lots of black bear sign.				2 coyotes				
<i>Marine Mammals</i>									
Sea Otters				2				1	1
Harbor Seals	3		25	2			1	4	

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
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									
Nuttall's Cockle			x	x	x	x	x		
Northwest Ugly Clam									x
Arctic Rock Borer									
Baltic Macoma									x
Stained Macoma									x
Pacific Surf Clam									x
Truncated Mya									x
Steamer Clam (Pacific Littleneck Clam)									x
Butter Clam									x
Razor Clam									
Mussels									
Horse Mussel			x	x	x	x	x	x	
Pacific Blue Mussel									x
Scallops									
Pink Scallop									
Jingles									
Rock Jingle									x
Cephalopods									
Giant Pacific Octopus							x		
Stubby Squid									
Arthropods									
Barnacles									
Acorn Barnacle				x	x	x	x		
Pelagic Gooseneck Barnacle									
Thatched Acorn Barnacle									
Crabs (crab molts, enter y)									
			x	x	x	x	x		

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
Dungeness Crab									x
Black-clawed Cancer Crab									
Red Hermit Crab									
Striped Hermit Crab									
Decorator Crab									
Carapace Crab									
Red King Crab									
Northern Kelp Crab									
Helmet Crab									x
Shrimp									
Broken-back Shrimp									
Coonstripe Shrimp									
Sand Shrimp									
Isopods									
Pillbug Isopod									
Rockweek Isopod									
Amphipods									
Skeleton Shrimp									
Small Beach Hopper									x
Echinoderms									
Sea Stars		x	x	x	x	x	x		
Little Six-rayed Star									
Red-banded Star (Rainbow Star)									
Ochre Star									x
Sunflower Star	x								
Morning Sun Star									
Stimpson's Sun Star									
Rose Star									
Leather Star	x								
True Star (False Ochre Star, Mottled Star)	x								
Blood Star									
Brittle Stars									
Serpent Star									
Daisy Brittle Star									
Sea Urchins									
Green Sea Urchin	x		x	x	x	x	x	x	x

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
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
Chordates									
Tunicates									
Colonial Tunicate (Sea Pork)									
Sea Peach									
Seaweeds									
Green Seaweed				x	x	x	x		
Band									
Attached									x
Washed Up									x
Red Seaweed				x	x	x	x		
Band									
Attached									
Washed Up									x
Rockweed					x				
Band									
Attached									
Washed Up									
Kelps					x				
Band									
Attached									x
Washed Up									
Eelgrass									
Band									
Attached									
Washed Up									
Beach Substrate									
Type	mud in pools			pebbles	pebbles, s	rocky	rocky, pebb	rocky, pebbles	

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
									sand
<u>Bluff and Cliff Erosion</u>									
Comments				differs, depending on		slight	slight	slight	
<u>Human Activities</u>									
Walking									
Signs of					1	1			
Actual observation				2					
Camping									
Signs of		1	2		1		1		
Actual observation									
Partying									
Signs of									
Actual observation									
Fire Pits									
Signs of									
Actual observation									
Trash Accumulations									
Signs of	1						2		
Actual observation									
Clamming									
Signs of					1	1	1		
Actual observation			1						
Fishing									
Signs of					1		1		
Actual observation				1					
Coaling									
Signs of							1		
Actual observation									
Picnicking									
Signs of					1		1		
Actual observation					1				
Horseback Riding									
Signs of							1		

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
Actual observation									
Harvesting (specify)									
Signs of							hunting		x - salmon
Actual observation									
Other (specify)									
<u>Vehicle Use</u>									
Cars/Trucks									
Sets of tracks									
Actual observation			2						
ATVs/Motorcycles									
Sets of tracks									
Actual observation									
Bicycles									
Sets of tracks					1				
Actual observation									
Aircraft									
Sets of tracks					4				x
Actual observation									
Other (specify)									
<u>Structures on the Beach</u>									
Buildings	10	2	19	2		3	2	7	
Docks						1			
Driftwood Structures									
Riprapped Areas									
Erosion Control Structures									wood chips
Abandoned Vehicles									wre
Abandoned Boats					1				
Boat Parts				1	3				
<u>Archaeological Sites</u>									
Shell Middens					2				
Other (specify)	2 sites					Haystack Rock, McKeon Spit			

Date	13-Oct-85	13-Oct-85	30-Apr-88	24-Apr-90	26-Apr-91	27-Apr-91	29-Sep-96	23-Sep-99	20-Sep-02
Comments									
<i>Most Peculiar Item Collected?</i>									coconut in
<i>Comments</i>	Subsistenc	Encouragir	Metal unco	Glass rare.	Glass, fishing gear cor	Dead pine needles con	have walke		
<u>Additional Observations and Comments</u>	Comparativ	Not probat	Lots of sea	Hiked 1 mile, kayaked	Covered by Girl Scout	Gorgeous fall colors vis			
Wasnesensu doroshin river about to change course and drain into China Poot, as it did before '64 quake. Previous coastwalks countless tons of dive									

Date	09.16.04	10.09.05	9.25.05						
Other (specify)?	xboat								
Trash Bags Collected	1	1	1						
Estimated Weight of Collected Trash		10							
<u>Wildlife</u>									
<i>Birds</i>									
Loons	8		x						
Sea Ducks	200	330							
Other Ducks and Geese		20							
Bald Eagles									
Adults	16	6							
Immatures	16								
Nests	8	5							
Shorebirds	10								
Seabirds		152	x						
Crows and Ravens									
Others (see separate Bird list)	peregrine falcons								
<i>Domestic Mammals</i>									
Cattle	0								
Horses	0								
Dogs	0								
Other	0								
<i>Land Mammals</i>									
Moose	0								
Adults	0								
Calves	0								
Black Bears	many, many								
Brown Bears	seen in 36 years								
Land/River Otters	d family groups								
Red Squirrels	ation rebounding								
Tracks Identified	moose, black bear coyote								
Other									
<i>Marine Mammals</i>									
Sea Otters	4								
Harbor Seals	65	3	1						

<u>Zone 21</u>									
Shore									
Total Surveys									
Start Point									
Start Lat/Long									
End Point									
End Lat/Long									
Dates Walked									
Spring Surveys									
Fall Surveys									
First Walked									
Last Walked									
Total Person-Hours									
Total Trash Bags Collected									
Total Estimated Weight of Trash Collected									
<u>General Info</u>									
Date									
Start Time									
End Time									
Lowest Tide									
at time									
Temperature (F)									
Sky									
Vertical Zones Walked:									
High									
Middle									
Low									
# of Observers									
Hours Spent									
Person-Hours									
	0	0	0	0	0	0	0	0	0
Shoreline Walked (miles)									
Total Trip Mileage									
Did Observers . . .									
Hike?									
Kayak?									

Date									
	<u>Bluff and Cliff Erosion</u>								
Comments									
	<u>Human Activities</u>								
Walking									
		Signs of							
		Actual observation							
Camping									
		Signs of							
		Actual observation							
Partying									
		Signs of							
		Actual observation							
Fire Pits									
		Signs of							
		Actual observation							
Trash Accumulations									
		Signs of							
		Actual observation							
Clamming									
		Signs of							
		Actual observation							
Fishing									
		Signs of							
		Actual observation							
Coaling									
		Signs of							
		Actual observation							
Picnicking									
		Signs of							
		Actual observation							
Horseback Riding									
		Signs of							

Date									
Comments									
<i>Most Peculiar Item Collected?</i>									
<i>Comments</i>	nd thousands of Asturias amurensis washed up, around half alive, although there was no big wave sur								
<u>Additional Observations and Comments</u>									
	Wasnesensu doroshin river about to change dverall very clean considering proximity to Homer & harbor								

<u>Zone 21</u>									
Shore									
Total Surveys									
Start Point									
Start Lat/Long									
End Point									
End Lat/Long									
Dates Walked									
Spring Surveys									
Fall Surveys									
First Walked									
Last Walked									
Total Person-Hours									
Total Trash Bags Collected									
Total Estimated Weight of Trash Collected									
<u>General Info</u>									
Date									
Start Time									
End Time									
Lowest Tide									
at time									
Temperature (F)									
Sky									
Vertical Zones Walked:									
High									
Middle									
Low									
# of Observers									
Hours Spent									
Person-Hours									
Shoreline Walked (miles)									
Total Trip Mileage									
Did Observers . . .									
Hike?									
Kayak?									

Date									
	<u>Bluff and Cliff Erosion</u>								
Comments									
	<u>Human Activities</u>								
Walking									
		Signs of							
		Actual observation							
Camping									
		Signs of							
		Actual observation							
Partying									
		Signs of							
		Actual observation							
Fire Pits									
		Signs of							
		Actual observation							
Trash Accumulations									
		Signs of							
		Actual observation							
Clamming									
		Signs of							
		Actual observation							
Fishing									
		Signs of							
		Actual observation							
Coaling									
		Signs of							
		Actual observation							
Picnicking									
		Signs of							
		Actual observation							
Horseback Riding									
		Signs of							

<u>Zone 21</u>									
Shore									
Total Surveys									
Start Point									
Start Lat/Long									
End Point									
End Lat/Long									
Dates Walked									
Spring Surveys									
Fall Surveys									
First Walked									
Last Walked									
Total Person-Hours									
Total Trash Bags Collected									
Total Estimated Weight of Trash Collected									
<u>General Info</u>									
Date									
Start Time									
End Time									
Lowest Tide									
at time									
Temperature (F)									
Sky									
Vertical Zones Walked:									
High									
Middle									
Low									
# of Observers									
Hours Spent									
Person-Hours									
Shoreline Walked (miles)									
Total Trip Mileage									
Did Observers . . .									
Hike?									
Kayak?									

Date									
	<u>Bluff and Cliff Erosion</u>								
Comments									
	<u>Human Activities</u>								
Walking									
	Signs of								
	Actual observation								
Camping									
	Signs of								
	Actual observation								
Partying									
	Signs of								
	Actual observation								
Fire Pits									
	Signs of								
	Actual observation								
Trash Accumulations									
	Signs of								
	Actual observation								
Clamming									
	Signs of								
	Actual observation								
Fishing									
	Signs of								
	Actual observation								
Coaling									
	Signs of								
	Actual observation								
Picnicking									
	Signs of								
	Actual observation								
Horseback Riding									
	Signs of								

<u>Zone 21</u>					
Shore					
Total Surveys					
Start Point					
Start Lat/Long					
End Point					
End Lat/Long					
Dates Walked					
Spring Surveys					
Fall Surveys					
First Walked					
Last Walked					
Total Person-Hours					
Total Trash Bags Collected					
Total Estimated Weight of Trash Collected					
<u>General Info</u>					
Date					
Start Time					
End Time					
Lowest Tide					
at time					
Temperature (F)					
Sky					
Vertical Zones Walked:					
High					
Middle					
Low					
# of Observers					
Hours Spent					
Person-Hours					
Shoreline Walked (miles)					
Total Trip Mileage					
Did Observers . . .					
Hike?					
Kayak?					

Date					
Other (specify)?					
Trash Bags Collected					
Estimated Weight of Collected Trash					
<u>Wildlife</u>					
<i>Birds</i>					
Loons					
Sea Ducks					
Other Ducks and Geese					
Bald Eagles					
Adults					
Immatures					
Nests					
Shorebirds					
Seabirds					
Crows and Ravens					
Others (see separate Bird list)					
<i>Domestic Mammals</i>					
Cattle					
Horses					
Dogs					
Other					
<i>Land Mammals</i>					
Moose					
Adults					
Calves					
Black Bears					
Brown Bears					
Land/River Otters					
Red Squirrels					
Tracks Identified					
Other					
<i>Marine Mammals</i>					
Sea Otters					
Harbor Seals					

Date					
Steller's Sea Lions					
Harbor Porpoises					
Whales					
	Beluga				
	Orca				
	Minke				
	Humpback				
	Gray				
	Unknown				
Other/Unidentified					
<i>Please note any unusual wildlife sightings</i>					
<u>Invertebrates</u>					
<i>(from the Intertidal Biodiversity Checklist)</i>					
<i>Please note any interesting observations or changes in abundance here</i>					
<i>Sponges</i>					
Breadcrumb Sponge					
Purple Sponge					
<i>Cnidarians</i>					
<i>Anemones</i>					
Burrowing Green Anemone					
Orange Colonial Anemone					
Frilled (Plumose) Anemone					
Christmas Anemone					
<i>Sea Jellies</i>					
Moon Jelly					
Many-ribbed Hydromedusa					
Compass Jelly					
Lion's Mane Jelly					
<i>Worms</i>					
Giant Flatworm					

Date					
<i>Nemerteans</i>					
Amphiporus (Two-spotted) Ribbon Worm					
Red Ribbon Worm					
<i>Echiurans</i>					
Fat Innkeeper (Alaskan Spoonworm)					
<i>Sipunculids</i>					
Peanut Worm					
<i>Annelids</i>					
Mussel Worm (Clam Worm)					
Northern Feather Duster Worm (Carpet Worm)					
Cone Worm					
Calcareous Tube Worm					
Spiral Tube Worm					
Scaleworm					
<i>Brachiopods</i>					
Transverse Lampshell					
<i>Mollusks</i>					
<i>Chitons</i>					
Gumboot Chiton					
Black Katy Chiton					
Brick Chiton					
Mossy Chiton					
Tiger Chiton					
Lined Chiton					
<i>Limpets</i>					
Dunce Cap Limpet					
Plate Limpet					
<i>Snails</i>					
Hairy Triton					
Sitka Periwinkle					
Helicina Margarite					
Puppet Margarite					
Aleutian Moonsnail					
Ridged Neptune					
Channeled Dogwinkle					
Emarginate Dogwinkle					

Date					
Frilled Dogwinkle					
File Dogwinkle					
Big-mouth Whelk					
<i>Nudibranchs</i>					
Maned Nudibranch					
False Sea Lemon (False Lemon Peel)					
Orange-tipped Nudibranch					
Opalescent Nudibranch					
Bushy-backed Nudibranch					
<i>Clams</i>					
Nuttall'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					
<i>Mussels</i>					
Horse Mussel					
Pacific Blue Mussel					
<i>Scallops</i>					
Pink Scallop					
<i>Jingles</i>					
Rock Jingle					
<i>Cephalopods</i>					
Giant Pacific Octopus					
Stubby Squid					
<i>Arthropods</i>					
<i>Barnacles</i>					
Acorn Barnacle					
Pelagic Gooseneck Barnacle					
Thatched Acorn Barnacle					
<i>Crabs (crab molts, enter y)</i>					

Date					
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					

Date					
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)					
<u>Chordates</u>					
Tunicates					
Colonial Tunicate (Sea Pork)					
Sea Peach					
<u>Seaweeds</u>					
Green Seaweed					
Band					
Attached					
Washed Up					
Red Seaweed					
Band					
Attached					
Washed Up					
Rockweed					
Band					
Attached					
Washed Up					
Kelps					
Band					
Attached					
Washed Up					
Eelgrass					
Band					
Attached					
Washed Up					
<u>Beach Substrate</u>					
Type					

Date					
	<u>Bluff and Cliff Erosion</u>				
Comments					
	<u>Human Activities</u>				
Walking					
	Signs of				
	Actual observation				
Camping					
	Signs of				
	Actual observation				
Partying					
	Signs of				
	Actual observation				
Fire Pits					
	Signs of				
	Actual observation				
Trash Accumulations					
	Signs of				
	Actual observation				
Clamming					
	Signs of				
	Actual observation				
Fishing					
	Signs of				
	Actual observation				
Coaling					
	Signs of				
	Actual observation				
Picnicking					
	Signs of				
	Actual observation				
Horseback Riding					
	Signs of				

Date					
	Actual observation				
Harvesting (specify)					
	Signs of				
	Actual observation				
Other (specify)					
	<u>Vehicle Use</u>				
Cars/Trucks					
	Sets of tracks				
	Actual observation				
ATVs/Motorcycles					
	Sets of tracks				
	Actual observation				
Bicycles					
	Sets of tracks				
	Actual observation				
Aircraft					
	Sets of tracks				
	Actual observation				
Other (specify)					
	<u>Structures on the Beach</u>				
Buildings					
Docks					
Driftwood Structures					
Riprapped Areas					
Erosion Control Structures					
Abandoned Vehicles					
Abandoned Boats					
	Boat Parts				
	<u>Archaeological Sites</u>				
Shell Middens					
Other (specify)					

Date					
<u>Outfalls or Pipes</u>					
Number					
Comments					
<u>Toxic Pollution</u>					
Fuel (oil, gas, etc.)					
Lubricating Oil					
Paint					
Batteries					
<u>Trash & Debris</u>					
(from International Coastal Cleanup Data Card)					
<i>Shoreline and Recreational Activities</i>					
Bags/Food Wrappers					
Balloons					
Beverage Bottles, plastic, 2-liter or less					
Beverage Bottles, glass					
Beverage Cans					
Caps, Lids					
Clothing, Cloth					
Cups, Plates, Forks, Knives, Spoons					
Diapers					
Fast-food Containers					
6-pack Holders					
Pull Tabs					
Shotgun Shells/Wadding					
Straws, Stirrers					
Toys					
<i>Ocean/Waterway Activities</i>					
Bait Containers/Packaging					
Bleach/Cleaner Bottles					
Buoys/Floats					
Crab/Lobster/Fish Traps					
Crates					

Date					
Fishing Line					
Fishing Lures					
Fishing Nets					
Light Bulbs/Tubes					
Oil/Lube Bottles					
Pallets					
Plastic Sheeting/Tarps					
Rope					
Strapping Bands					
<i>Smoking-Related Activities</i>					
Cigarettes/Cigarette Filters					
Cigarette Lighters					
Cigar Tips					
Tobacco Packaging/Wrappers					
<i>Dumping Activities</i>					
Appliances (refrigerators, washers, etc.)					
Batteries					
Cars/Car Parts					
Construction Materials					
55-gallon Drums					
Tires					
<i>Medical/Personal Hygiene</i>					
Syringes					
Condoms					
Tampons/Tampon Applicators					
<i>Debris Items of Local Concern</i>					
<i>Entangled Animals</i>					
Type of Animal					
Form of Entangling Debris					

Date					
Comments					
<i>Most Peculiar Item Collected?</i>					
<i>Comments</i>	es. thanks for all the good work your org is doing				
<u>Additional Observations and Comments</u>					
Wasnesensu doroshin river about to change c					