

<b><u>Zone 21</u></b>									
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								
<b><u>General Info</u></b>									
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								
	Middle								
	Low								
# 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?								
	Kayak?								

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	
<b>Trash Bags Collected</b>									1
<b>Estimated Weight of Collected Trash</b>									
<b><u>Wildlife</u></b>									
<b><i>Birds</i></b>									
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
<b><i>Domestic Mammals</i></b>									
Cattle									
Horses									
Dogs	2	1	2	2					
Other									
<b><i>Land Mammals</i></b>									
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				
<b><i>Marine Mammals</i></b>									
Sea Otters				2				1	1
Harbor Seals	3		25	2			1	4	





<b>Date</b>	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									
<b>Nudibranchs</b>									
Maned Nudibranch									
False Sea Lemon (False Lemon Peel)									
Orange-tipped Nudibranch									
Opalescent Nudibranch									
Bushy-backed Nudibranch									
<b>Clams</b>			x	x	x	x	x		
Nuttall's Cockle									x
Northwest Ugly Clam									
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									
<b>Mussels</b>			x	x	x	x	x	x	
Horse Mussel									
Pacific Blue Mussel									x
<b>Scallops</b>									
Pink Scallop									
<b>Jingles</b>									
Rock Jingle									x
<b>Cephalopods</b>									
Giant Pacific Octopus							x		
Stubby Squid									
<b>Arthropods</b>									
<b>Barnacles</b>				x	x	x	x		
Acorn Barnacle									
Pelagic Gooseneck Barnacle									
Thatched Acorn Barnacle									
<b>Crabs (crab molts, enter y)</b>			x	x	x	x	x		

<b>Date</b>	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
<b>Shrimp</b>									
Broken-back Shrimp									
Coonstripe Shrimp									
Sand Shrimp									
<b>Isopods</b>									
Pillbug Isopod									
Rockweek Isopod									
<b>Amphipods</b>									
Skeleton Shrimp									
Small Beach Hopper									x
<b>Echinoderms</b>									
<b>Sea Stars</b>		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									
<b>Brittle Stars</b>									
Serpent Star									
Daisy Brittle Star									
<b>Sea Urchins</b>									
Green Sea Urchin	x		x	x	x	x	x	x	x

<b>Date</b>	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									
<b>Sea Cucumbers</b>									
Silky Burrowing Cucumber									
Orange Cucumber (Red Cucumber)									
Tar-spot Cucumber (Black Cucumber)									
<b>Sand Dollars</b>									
Green-spined Sand Dollar (Northern Sand Dollar)									x
<b>Chordates</b>									
<b>Tunicates</b>									
Colonial Tunicate (Sea Pork)									
Sea Peach									
<b>Seaweeds</b>									
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									
<b>Beach Substrate</b>									
Type	mud in pools			pebbles	pebbles, s	rocky	rocky, pebt	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
<b><u>Bluff and Cliff Erosion</u></b>									
Comments				differs, depending on		slight	slight	slight	
<b><u>Human Activities</u></b>									
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)									
<b><u>Vehicle Use</u></b>									
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)									
<b><u>Structures on the Beach</u></b>									
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				
<b><u>Archaeological Sites</u></b>									
Shell Middens					2				
Other (specify)	2 sites					Haystack Rock, McKeon Spit			





<b>Date</b>	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									
<b><i>Most Peculiar Item Collected?</i></b>									coconut in
<b><i>Comments</i></b>	Subsistenc	Encouragir	Metal unco	Glass rare.	Glass, fishing gear cor	Dead pine needles con	have walke		
<b><u>Additional Observations and Comments</u></b>	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								
<b>Trash Bags Collected</b>	1	1	1						
<b>Estimated Weight of Collected Trash</b>		10							
<b><u>Wildlife</u></b>									
<b><i>Birds</i></b>									
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								
<b><i>Domestic Mammals</i></b>									
Cattle	0								
Horses	0								
Dogs	0								
Other	0								
<b><i>Land Mammals</i></b>									
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									
<b><i>Marine Mammals</i></b>									
Sea Otters	4								
Harbor Seals	65	3	1						



















<b>Date</b>	09.16.04	10.09.05	9.25.05						
Comments									
<b><i>Most Peculiar Item Collected?</i></b>	ts husk!!								
	a porta potty complete new								
<b><i>Comments</i></b>	d the beach over the last 30 years, most surprising was a tremendous number of crab molts (horse) a								
<b><u>Additional Observations and Comments</u></b>	sible in the high country.								
	Wasnesensu doroshin river about to change erse seaweeds versus almost none. Compared to previous - very very few dead sea stars or jellies. C								















<b>Date</b>									
	<b><u>Bluff and Cliff Erosion</u></b>								
Comments									
	<b><u>Human Activities</u></b>								
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							







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

<b><u>Zone 21</u></b>									
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									
<b><u>General Info</u></b>									
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?									













<b>Date</b>									
	<b><u>Bluff and Cliff Erosion</u></b>								
Comments									
	<b><u>Human Activities</u></b>								
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							









<b><u>Zone 21</u></b>									
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									
<b><u>General Info</u></b>									
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?									













<b>Date</b>									
	<b><u>Bluff and Cliff Erosion</u></b>								
Comments									
	<b><u>Human Activities</u></b>								
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								









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

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



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

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

<b>Date</b>					
Dungeness Crab					
Black-clawed Cancer Crab					
Red Hermit Crab					
Striped Hermit Crab					
Decorator Crab					
Carapace Crab					
Red King Crab					
Northern Kelp Crab					
Helmet Crab					
<b>Shrimp</b>					
Broken-back Shrimp					
Coonstripe Shrimp					
Sand Shrimp					
<b>Isopods</b>					
Pillbug Isopod					
Rockweek Isopod					
<b>Amphipods</b>					
Skeleton Shrimp					
Small Beach Hopper					
<b>Echinoderms</b>					
<b>Sea Stars</b>					
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					
<b>Brittle Stars</b>					
Serpent Star					
Daisy Brittle Star					
<b>Sea Urchins</b>					
Green Sea Urchin					

<b>Date</b>					
Red Sea Urchin					
<b>Sea Cucumbers</b>					
Silky Burrowing Cucumber					
Orange Cucumber (Red Cucumber)					
Tar-spot Cucumber (Black Cucumber)					
<b>Sand Dollars</b>					
Green-spined Sand Dollar (Northern Sand Dollar)					
<b><u>Chordates</u></b>					
<b>Tunicates</b>					
Colonial Tunicate (Sea Pork)					
Sea Peach					
<b><u>Seaweeds</u></b>					
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					
<b><u>Beach Substrate</u></b>					
Type					

<b>Date</b>					
	<b><u>Bluff and Cliff Erosion</u></b>				
Comments					
	<b><u>Human Activities</u></b>				
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				

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

<b>Date</b>					
<b><u>Outfalls or Pipes</u></b>					
Number					
Comments					
<b><u>Toxic Pollution</u></b>					
Fuel (oil, gas, etc.)					
Lubricating Oil					
Paint					
Batteries					
<b><u>Trash &amp; Debris</u></b>					
(from International Coastal Cleanup Data Card)					
<b><i>Shoreline and Recreational Activities</i></b>					
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					
<b><i>Ocean/Waterway Activities</i></b>					
Bait Containers/Packaging					
Bleach/Cleaner Bottles					
Buoys/Floats					
Crab/Lobster/Fish Traps					
Crates					

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

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