

2009 Kachemak CoastWalk Data Summary

Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 Zone 8

Invertebrates

(from the Intertidal Biodiversity Checklist)

Please note any interesting observations or changes in abundance here

Sponges

Breadcrumb Sponge x
Purple Sponge

Cnidarians

Anemones

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

Sea Jellies

Moon Jelly x
Many-ribbed Hydromedusa
Compass Jelly
Lion's Mane Jelly

Worms

Giant Flatworm

Nemertean

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 x
Helicina Margarite
Puppet Margarite
Aleutian Moonshell
Ridged Neptune
Channeled Dogwinkle
Emarginate Dogwinkle
Fringed Dogwinkle
File Dogwinkle
Big-mouth Whelk

Nudibranchs

Maned Nudibranch
False Sea Lemon (False Lemon Peel)
Orange-tipped Nudibranch
Opalescent Nudibranch
Bushy-backed Nudibranch

2009 Kachemak CoastWalk Data Summary

Zone 1 Zone 2 Zone 3 Zone 4 Zone 5 Zone 6 Zone 7 Zone 8

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

Colonial Tunicate (Sea Pork)
 Sea Peach

Seaweeds

Green Seaweed

Band x
 Attached x
 Washed Up x

x

Red Seaweed

Band x
 Attached
 Washed Up x

x

Rockweed

Band
 Attached x
 Washed Up x

x

Kelps

Band
 Attached
 Washed Up x

x

Eelgrass

Band x
 Attached x
 Washed Up x

x

x

2009 Kachemak CoastWalk Data Summary

	<u>Zone 1</u>	<u>Zone 2</u>	<u>Zone 3</u>	<u>Zone 4</u>	<u>Zone 5</u>	<u>Zone 6</u>	<u>Zone 7</u>	<u>Zone 8</u>
<i>Most Peculiar Item Collected?</i>								small bag c
<i>Comments</i>		Beach Zone 2 is was much surprisingly cleaner y clean for than in the a high use past. Ken beach. Hahn, Recent who has a storms cabin on		most of the building materials were nails found in fire pit areas (likely				most of trash from high wrack line, mostly under second set of businesses

Additional Observations and Comments

2009 Kachemak CoastWalk Data Sheet

	<u>Zone 9</u>	<u>Zone 10</u>	<u>Zone 11</u>	<u>Zone 12</u>	<u>Zone 13</u>	<u>Zone 14</u>	<u>Zone 15</u>	<u>Zone 16</u>
Date	9.12;9.29	9.19;9.26;9.27	9.21-23.09	9.26;9.29	9.17;9.19	no survey	11.14.09	10.2;10.3
Start Time							1600	
End Time							1800	
Lowest Tide			-2.2				-1.9	
Temperature (F)		at time	2303				1848	
Sky			65				clouds	
Vertical Zones Walked:			sun					
	High	x	x	x	x		x	x
	Middle	x	x	x	x		x	x
	Low		x					x
# of Observers	26	39	1	55	3		2	4
Hours Spent	5.5	4.5	8.5	5.5	4.25		2	7.5
Person-Hours	53.5	62.5	8.5	159	6.5		4	15
Shoreline Walked (miles)	1.75	3.5	2	1.75	6		1.5	5
Total Trip Mileage	23.25	4.5	6	3.5	12		3	10
Did Observers . . .								
	Hike?	x	x	x	x		x	x
	Kayak?							
	Other (specify)?							
Trash Bags Collected	31	11	4	26	2.5		1	11
Estimated Weight of Collected Trash	360	110	40	438	60.5		1	100

Wildlife

Birds

Loons	0				1			
Sea Ducks	0		1		107			
Other Ducks and Geese	0				0			
Bald Eagles	0				0			
	Adults	0			3		1	3
	Immatures	0			1			
	Nests	0			1		1	
Shorebirds	0				0			
Seabirds	40		100		2		82	
Crows and Ravens	0				0			
Others	0				0			

Domestic Mammals

Cattle	0				0			
Horses	0				0			1
Dogs	3		2		1			
Other	0				0			

Land Mammals

Moose	0			droppings	0			
	Adults	0			0			
	Calves	0			0			
Black Bears	0				0			1
Brown Bears	0				0			
Land/River Otters	0				0			
Red Squirrels	0				0			3
Tracks Identified	0				0			red squirrel, dog
Other	0				0			

Marine Mammals

Sea Otters	0				2			
Harbor Seals	0				7			
Steller's Sea Lions	0				0			
Harbor Porpoises	0				0			
Whales	0							
	Beluga	0			0			
	Orca	0			0			
	Minke	0			0			
	Humpback	0			0			
	Gray	0			0			
	Unknown	0			0			
Other/Unidentified	0				0			

Please note any unusual wildlife sightings

2009 Kachemak CoastWalk Data Sheet

Zone 9 Zone 10 Zone 11 Zone 12 Zone 13 Zone 14 Zone 15 Zone 16

Invertebrates

(from the Intertidal Biodiversity Checklist)

Please note any interesting observations or changes in abundance here

dead skate

Sponges

Breadcrumb Sponge
Purple Sponge

Cnidarians

Anemones

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

Sea Jellies

Moon Jelly
Many-ribbed Hydromedusa
Compass Jelly
Lion's Mane Jelly

Worms

Giant Flatworm

Nemertean

Amphiporus (Two-spotted) Ribbon Worm
Red Ribbon Worm

x

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

x

x

Brachiopods

Transverse Lampshell

Mollusks

Chitons

Gumboot Chiton
Black Katy Chiton
Brick Chiton
Mossy Chiton
Tiger Chiton
Lined Chiton

Limpets

Dunce Cap Limpet
Plate Limpet

x

Snails

Hairy Triton
Sitka Periwinkle
Helicina Margarite
Puppet Margarite
Aleutian Moonshell
Ridged Neptune
Channeled Dogwinkle
Emarginate Dogwinkle
Fringed Dogwinkle
File Dogwinkle
Big-mouth Whelk

x

x

Nudibranchs

Maned Nudibranch
False Sea Lemon (False Lemon Peel)
Orange-tipped Nudibranch
Opalescent Nudibranch
Bushy-backed Nudibranch

2009 Kachemak CoastWalk Data Sheet

Zone 9 Zone 10 Zone 11 Zone 12 Zone 13 Zone 14 Zone 15 Zone 16

Sea Cucumbers

- Silky Burrowing Cucumber
- Orange Cucumber (Red Cucumber)
- Tar-spot Cucumber (Black Cucumber)

Sand Dollars

- Green-spined Sand Dollar (Northern Sand D)

Chordates

Tunicates

- Colonial Tunicate (Sea Pork)
- Sea Peach

bryozoan

Seaweeds

Green Seaweed

Band
Attached
Washed Up

x

x

x

Red Seaweed

Band
Attached
Washed Up

x

x

Rockweed

Band
Attached
Washed Up

x

x

Kelps

Band
Attached
Washed Up x

x

x

Eelgrass

Band
Attached
Washed Up

x

x

x

x

2009 Kachemak CoastWalk Data Sheet

Zone 9 Zone 10 Zone 11 Zone 12 Zone 13 Zone 14 Zone 15 Zone 16

Trash & Debris

(from International Coastal Cleanup Data Cards)

Shoreline and Recreational Activities

Bags (Paper)	0	0	0	0	0	0	0
Bags (Plastic)	102	33	8	145	3	0	26
Balloons	7	0	0	3	0	0	0
Beverage Bottles, plastic, 2-liter or less	62	7	16	40	4	0	9
Beverage Bottles, glass	8	21	6	54	3	0	33
Beverage Cans	63	18	12	117	6	1	194
Caps, Lids	36	6	8	23	0	0	0
Clothing, Cloth	17	4	5	9	2	0	2
Cups, Plates, Forks, Knives, Spoons	50	10	2	52	3	0	33
Food Wrappers/Containers	65	33	3	145	0	0	10
6-pack Holders	34	1	0	2	0	0	0
Pull Tabs	2	0	0	2	0	0	0
Shotgun Shells/Wadding	4	2	6	4	1	1	26
Straws, Stirrers	22	5	0	7	0	0	0
Toys	3	0	0	3	0	0	1

Ocean/Waterway Activities

Bait Containers/Packaging	24	1	1	2	1	0	0
Bleach/Cleaner Bottles	0	3	0	3	0	0	0
Buoys/Floats	35	1	1	1	2	0	1
Crab/Lobster/Fish Traps	0	0	0	0	0	0	0
Crates	0	0	0	0	0	0	0
Fishing Line	17	1	1	3	0	0	0
Fishing Lures	2	2	0	2	0	0	0
Fishing Nets	0	0	1	2	0	0	7
Light Bulbs/Tubes	0	0	0	0	0	0	0
Oil/Lube Bottles	0	1	0	0	0	0	2
Pallets	1	0	0	2	2	0	0
Plastic Sheeting/Tarps	31	2	0	15	0	0	3
Rope/cable	123	0	6	16	1	1	9
Strapping Bands	10	2	4	2	0	0	1

Smoking-Related Activities

Cigarettes/Cigarette Filters	495	110	0	130	0	0	0
Cigarette Lighters	1	0	0	4	0	0	1
Cigar Tips	5	0	0	0	0	0	0
Tobacco Packaging/Wrappers	9	0	1	7	0	0	2

Dumping Activities

Appliances (refrigerators, washers, etc.)	0	0	0	0	1	0	1
Batteries	0	3	0	1	0	0	0
Building Materials	22	1	0	52	0	0	9
Cars/Car Parts	16	3	0	6	3	0	5
55-gallon Drums	0	0	0	0	0	0	0
Tires	1	0	0	4	8	0	1

Medical/Personal Hygiene

Condoms	1	0	0	1	0	0	5
Diapers	0	0	1	0	0	0	0
Syringes	2	0	0	0	0	0	0
Tampons/Tampon Applicators	5	0	0	0	0	0	0

Debris Items of Local Concern

Styrofoam pieces	49	10	0	79	6	0	0
Plastic Pieces	39	0	53	96	0	0	0
Paper products	47	0	0	108	0	0	0
Metal Pieces	0	0	0	3	0	0	0
Other	0	0	0	18	2	0	5

Entangled Animals

Type of Animal
Form of Entangling Debris
Comments

2009 Kachemak CoastWalk Data Sheet

Zone 9 Zone 10 Zone 11 Zone 12 Zone 13 Zone 14 Zone 15 Zone 16

Most Peculiar Item Collected?

of beads from AK Beads

Comments

infinite
number of
of beer
cans/bottl
es/cups.
We
document
ed what

Additional Observations and Comments

The beach
is
beautiful
and
mostly
clean
except for
the party
zone.

2009 Kachemak CoastWalk Data Sheet

	<u>Zone 17</u>	<u>Zone 18</u>	<u>Zone 19</u>	<u>Zone 20</u>	<u>Zone 21</u>	<u>Zone 22</u>	<u>Zone 23</u>	<u>Zone 24</u>
Date	no survey i		6.13;7.22;8	no survey i	10.5.09	9.29;10.1	9.12.09	no survey i
Start Time				1100		1300		
End Time				1300		1600		
Lowest Tide				-1.2		2.7		
	at time			2128		222		
Temperature (F)			55	50		50		
Sky			cloudy,sun	clouds	cloudy	sun, clouds		
Vertical Zones Walked:								
	High		x	x	x			
	Middle				x			
	Low				x	x		
# of Observers			19	35	5	2		
Hours Spent			18	2	8	3		
Person-Hours			132	70	23	6		
Shoreline Walked (miles)			11	3	4	3		
Total Trip Mileage			11	3	8	3		
Did Observers . . .								
	Hike?		x	x	x	x		
	Kayak?							
	Other (specify)?							
Trash Bags Collected			65	8	6	1		
Estimated Weight of Collected Trash			1355	200	270	30		
Wildlife								
Birds								
Loons				0	0	3		
Sea Ducks			17	0	2	0		
Other Ducks and Geese				0	10	0		
Bald Eagles								
	Adults		2	1	6	3		
	Immatures			0	2	0		
	Nests		2	0	3	0		
Shorebirds			105	0	0	0		
Seabirds			1	0	0	35		
Crows and Ravens				0	0	0		
Others				0	0	0		
Domestic Mammals								
Cattle				0	0	0		
Horses				0	0	0		
Dogs			1	0	1	0		
Other				0	0	0		
Land Mammals								
Moose					0	0		
	Adults			0	0	0		
	Calves			0	0	0		
Black Bears				0	0	0		
Brown Bears				0	1	0		
Land/River Otters			1	2	2	0		
Red Squirrels			1	0	0	0		
Tracks Identified				domestic d river otter		0		
Other				0	0	0		
Marine Mammals								
Sea Otters				1	5	2		
Harbor Seals				1	0	0		
Steller's Sea Lions				0	0	0		
Harbor Porpoises			2	0	0	0		
Whales				0	0	0		
	Beluga			0	0	0		
	Orca			0	0	0		
	Minke			0	0	0		
	Humpback			0	0	0		
	Gray			0	0	0		
	Unknown			0	0	0		
Other/Unidentified				0	0	0		
Please note any unusual wildlife sightings			dead eagle					

2009 Kachemak CoastWalk Data Sheet**Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24****Invertebrates***(from the Intertidal Biodiversity Checklist)***Please note any interesting observations or changes in abundance here****Sponges**

Breadcrumb Sponge	x
Purple Sponge	orange encrusting sponge

Cnidarians**Anemones**

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

Sea Jellies

Moon Jelly	x
Many-ribbed Hydromedusa	
Compass Jelly	
Lion's Mane Jelly	x

Worms

Giant Flatworm

Nemertean

Amphiporus (Two-spotted) Ribbon Worm	
Red Ribbon Worm	x

Echiurans

Fat Innkeeper (Alaskan Spoonworm)	x
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Sipunculids

Peanut Worm	x
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Annelids

Mussel Worm (Clam Worm)	x
Northern Feather Duster Worm (Carpet Worm)	
Cone Worm	
Calcareous Tube Worm	x
Spiral Tube Worm	x
Scaleworm	

Brachiopods

Transverse Lampshell

Mollusks**Chitons**

Gumboot Chiton	
Black Katy Chiton	x
Brick Chiton	
Mossy Chiton	x
Tiger Chiton	x
Lined Chiton	x

Limpets

Dunce Cap Limpet	x	x
Plate Limpet	x	x

Snails

Hairy Triton	
Sitka Periwinkle	x
Helicina Margarite	
Puppet Margarite	x
Aleutian Moonshell	
Ridged Neptune	
Channeled Dogwinkle	x
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	

2009 Kachemak CoastWalk Data Sheet

Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24

Sea Cucumbers

Silky Burrowing Cucumber	x						
Orange Cucumber (Red Cucumber)				x			
Tar-spot Cucumber (Black Cucumber)				x			

Sand Dollars

Green-spined Sand Dollar (Northern Sand D)

Chordates

Tunicates

Colonial Tunicate (Sea Pork)
Sea Peach

Seaweeds

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

2009 Kachemak CoastWalk Data S

Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24

Beach Substrate
 Type Cobble cobble, sar cobble

Bluff and Cliff Erosion
 Comments bluff erosion some parts no
 ing this beach

Human Activities

Walking	Signs of Actual observation	2	1	x	x
Camping	Signs of Actual observation	2 3	1	6	x
Partying	Signs of Actual observation			x	x
Fire Pits	Signs of Actual observation	4 18	2	6	
Trash Accumulations	Signs of Actual observation				
Clamming	Signs of Actual observation				
Fishing	Signs of Actual observation	1		x	
Coaling	Signs of Actual observation			3 set net sights	
Picnicking	Signs of Actual observation			x	
Horseback Riding	Signs of Actual observation				
Harvesting (specify)	Signs of Actual observation				
Other (specify)	Signs of Actual observation				

2009 Kachemak CoastWalk Data Sheet

Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24

Vehicle Use

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

Structures on the Beach

Buildings				CACS Stairs	x
Docks					
Driftwood Structures	1			4	
Riprapped Areas					
Erosion Control Structures					
Abandoned Vehicles				wrecked wood boat	
Abandoned Boats					
	Boat Parts			1	

Archaeological Sites

Shell Middens
Other (specify)

Outfalls or Pipes

Number
Comments

Toxic Pollution

Fuel (oil, gas, etc.) 5 lbs of drying tar
Lubricating Oil
Paint
Batteries

2009 Kachemak CoastWalk Data Sheet**Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24****Trash & Debris**

(from International Coastal Cleanup Data Cards)

Shoreline and Recreational Activities

Bags (Paper)	2	0	0	0
Bags (Plastic)	11	42	3	0
Balloons	2	0	7	0
Beverage Bottles, plastic, 2-liter or less	25	1	30	3
Beverage Bottles, glass	22	13	0	0
Beverage Cans	36	0	12	8
Caps, Lids	33	12	7	2
Clothing, Cloth	15	3	6	0
Cups, Plates, Forks, Knives, Spoons	19	6	0	0
Food Wrappers/Containers	70	38	3	0
6-pack Holders	6	0	0	0
Pull Tabs	1	0	0	3
Shotgun Shells/Wadding	53	2	87	0
Straws, Stirrers	3	1	1	0
Toys	12	1	0	0

Ocean/Waterway Activities

Bait Containers/Packaging	6	1	0	0
Bleach/Cleaner Bottles	1	0	1	0
Buoys/Floats	11	2	3	0
Crab/Lobster/Fish Traps	0	0	2	0
Crates	2	0	0	0
Fishing Line	5	3	4	0
Fishing Lures	5	1	0	0
Fishing Nets	3	1	4	0
Light Bulbs/Tubes	1	0	0	0
Oil/Lube Bottles	0	0	0	0
Pallets	3	1	3	0
Plastic Sheeting/Tarps	7	25	1	0
Rope/cable	30	5	10	0
Strapping Bands	5	6	4	0

Smoking-Related Activities

Cigarettes/Cigarette Filters	24	9	0	0
Cigarette Lighters	1	0	3	0
Cigar Tips	1	4	0	0
Tobacco Packaging/Wrappers	1	0	2	0

Dumping Activities

Appliances (refrigerators, washers, etc.)	0		0	0
Batteries	0		1	0
Building Materials	0	179	25	0
Cars/Car Parts	508	0	0	0
55-gallon Drums	1	0	0	0
Tires	0	0	0	0

Medical/Personal Hygiene

Condoms	0	0	0	0
Diapers	2	0	0	0
Syringes	0	0	0	0
Tampons/Tampon Applicators	1	0	0	0

Debris Items of Local Concern

Styrofoam pieces	420	642	88	0
Plastic Pieces	23	0	0	0
Paper products	0	0	0	0
Metal Pieces	1	0	0	0
Other	28	0	0	1

Entangled Animals

Type of Animal
Form of Entangling Debris
Comments

2009 Kachemak CoastWalk Data Sheet

Zone 17 Zone 18 Zone 19 Zone 20 Zone 21 Zone 22 Zone 23 Zone 24

Most Peculiar Item Collected?

Seldovia Bay Drift Card #228, Mexican Fish C

Comments

Additional Observations and Comments

Debris Overall
composed beach
mostly of conditions
shotgun are
shells, favorably
treated clean.
wood,
metal
cables
and
debris.

2009 Kachemak CoastWalk Data Sheet

	<u>Zone 25</u>	<u>Zone 26</u>	<u>Zone 27</u>	<u>Zone 28</u>	<u>Zone 29</u>	<u>Zone 30</u>	<u>Zone 31</u>	<u>Zone 32</u>
Date	no survey i	9.19.09	9.16-20.09	no survey i	8.1.09	no survey i	6.22.09	8.1.09
Start Time		1530						
End Time		1830						
Lowest Tide		-3.1	-1					
Temperature (F)	at time	1744	717					
Sky		sun	clouds					
Vertical Zones Walked:								
	High	x	x		x		x	x
	Middle		x					
	Low							
# of Observers		2	19		4		7	37
Hours Spent		3	3.5		1		0.75	1
Person-Hours		6	31		4		5.25	37
Shoreline Walked (miles)		6	2.5		1		1	3
Total Trip Mileage		6	2.5		2		2	3
Did Observers . . .								
	Hike?		x		x		x	x
	Kayak?	x						
	Other (specify)?							
Trash Bags Collected		1	4		6		14	11
Estimated Weight of Collected Trash		2	70		150		220	400
Wildlife								
Birds								
Loons					no biodiversity survey		no biodiversity survey	no biodiversity survey
Sea Ducks		9						
Other Ducks and Geese								
Bald Eagles								
	Adults	2						
	Immatures							
	Nests							
Shorebirds								
Seabirds		21	10					
Crows and Ravens			3					
Others		10						
Domestic Mammals								
Cattle								
Horses			1					
Dogs			30					
Other								
Land Mammals								
Moose								
	Adults							
	Calves							
Black Bears								
Brown Bears								
Land/River Otters								
Red Squirrels		2						
Tracks Identified								
Other								
Marine Mammals								
Sea Otters		2						
Harbor Seals								
Steller's Sea Lions								
Harbor Porpoises								
Whales								
	Beluga							
	Orca							
	Minke							
	Humpback							
	Gray							
	Unknown							
Other/Unidentified								

Please note any unusual wildlife sightings

2009 Kachemak CoastWalk Data Sheet**Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32****Invertebrates***(from the Intertidal Biodiversity Checklist)***Please note any interesting observations or changes in abundance here**

Sponges	x		
Breadcrumb Sponge			
Purple Sponge			
Cnidarians			
Anemones	x		
Burrowing Green Anemone			
Orange Colonial Anemone			
Frilled (Plumose) Anemone			
Christmas Anemone			
Sea Jellies			
Moon Jelly		x	
Many-ribbed Hydromedusa			
Compass Jelly			
Lion's Mane Jelly	x	x	
Worms			
Giant Flatworm			x
Nemertean			
Amphiporus (Two-spotted) Ribbon Worm			
Red Ribbon Worm			x
Echiurans			
Fat Innkeeper (Alaskan Spoonworm)	x		
Sipunculids			
Peanut Worm			
Annelids			
Mussel Worm (Clam Worm)	x		
Northern Feather Duster Worm (Carpet Worm)			
Cone Worm			
Calcareous Tube Worm			x
Spiral Tube Worm			
Scaleworm			
Brachiopods			
Transverse Lampshell			
Mollusks			
Chitons			
Gumboot Chiton			
Black Katy Chiton	x		
Brick Chiton			x
Mossy Chiton			
Tiger Chiton			x
Lined Chiton			
Limpets	x shield		
Dunce Cap Limpet			
Plate Limpet	x		
Snails			
Hairy Triton			
Sitka Periwinkle	x		
Helicina Margarite			
Puppet Margarite			
Aleutian Moonshell			
Ridged Neptune			
Channeled Dogwinkle	x		
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			

2009 Kachemak CoastWalk Data Sheet

Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32

Clams

shells

- 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

x
x

Mussels

- Horse Mussel
- Pacific Blue Mussel

x
x

Scallops

- Pink Scallop

Jingles

- Rock Jingle

Cephalopods

- Giant Pacific Octopus
- Stubby Squid

Arthropods

Barnacles

- Acorn Barnacle
- Pelagic Gooseneck Barnacle
- Thatched Acorn Barnacle

x
x

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

x
0
x
x

Shrimp

- Broken-back Shrimp
- Coonstripe Shrimp
- Sand Shrimp

x

Isopods

- Pillbug Isopod
- Rockweek Isopod

Amphipods

- Skeleton Shrimp
- Small Beach Hopper

x

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

x
x
x

Brittle Stars

- Serpent Star
- Daisy Brittle Star

0

Sea Urchins

- Green Sea Urchin
- Red Sea Urchin

0
0

2009 Kachemak CoastWalk Data Sheet

Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32

Sea Cucumbers

Silky Burrowing Cucumber	x						
Orange Cucumber (Red Cucumber)			x				
Tar-spot Cucumber (Black Cucumber)							

Sand Dollars

Green-spined Sand Dollar (Northern Sand D)			x				
--	--	--	---	--	--	--	--

Chordates

Tunicates

Colonial Tunicate (Sea Pork)			x				
Sea Peach							

bryozoans

Seaweeds

Green Seaweed

Band Attached	x						
Washed Up			x				

Red Seaweed

Band Attached	x						
Washed Up				x			

Rockweed

Band Attached	x						
Washed Up				x			

Kelps

Band Attached	x						
Washed Up	x			x			

Eelgrass

Band Attached							
Washed Up				x			

2009 Kachemak CoastWalk Data Sheet

Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32

Beach Substrate

Type cobble, box sand, cobble, mud, man-made

Bluff and Cliff Erosion

Comments boulders at yes

Human Activities

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

2009 Kachemak CoastWalk Data Sheet

Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32

Vehicle Use

Cars/Trucks

Sets of tracks
Actual observation

ATVs/Motorcycles

Sets of tracks
Actual observation

x x

Bicycles

Sets of tracks
Actual observation

Aircraft

Sets of tracks
Actual observation

Other (specify)

Structures on the Beach

Buildings

2

Docks

x

Driftwood Structures

Riprapped Areas

Erosion Control Structures

all over beach

Abandoned Vehicles

Abandoned Boats

Boat Parts

Archaeological Sites

Shell Middens

Other (specify)

Outfalls or Pipes

Number

Comments

Toxic Pollution

Fuel (oil, gas, etc.)

Lubricating Oil

Paint

Batteries

2009 Kachemak CoastWalk Data Sheet

Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32

Trash & Debris

(from International Coastal Cleanup Data Cards)

	Zone 25	Zone 26	Zone 27	Zone 28	Zone 29	Zone 30	Zone 31	Zone 32
Shoreline and Recreational Activities								
Bags (Paper)	0	0		0		0	0	0
Bags (Plastic)	0	12		0		19	47	
Balloons	0	1		0		0	17	
Beverage Bottles, plastic, 2-liter or less	1	7		0		49	53	
Beverage Bottles, glass	0	0		30		20	21	
Beverage Cans	2	8		0		116	131	
Caps, Lids	0	9		0		54	63	
Clothing, Cloth	0	1		0		12	17	
Cups, Plates, Forks, Knives, Spoons	0	6		0		0	17	
Food Wrappers/Containers	0	2		0		15	13	
6-pack Holders	0	0		0		3	2	
Pull Tabs	0	0		0		0	8	
Shotgun Shells/Wadding	4	1		0		0	6	
Straws, Stirrers	0	0		0		0	7	
Toys	0	3				0	5	
Ocean/Waterway Activities								
Bait Containers/Packaging	0	0		0		3	0	
Bleach/Cleaner Bottles	0	0		0		0	0	
Buoys/Floats	0	0		0		6	5	
Crab/Lobster/Fish Traps	0	1		0		1	1	
Crates	0	0		15		0	0	
Fishing Line	0	0		0		13	18	
Fishing Lures	0	0		2		0	0	
Fishing Nets	0	0		0		12	13	
Light Bulbs/Tubes	0	0		0		0	0	
Oil/Lube Bottles	0	0		0		6	23	
Pallets	0	1		10		0	0	
Plastic Sheeting/Tarps	0	4		23		3	10	
Rope/cable	0	3		15		21	27	
Strapping Bands	0	0				0	18	
Smoking-Related Activities								
Cigarettes/Cigarette Filters	0	0		0	57	0	57	
Cigarette Lighters	0	0		0		0	12	
Cigar Tips	0	0		0		0	0	
Tobacco Packaging/Wrappers	0	0				0	14	
Dumping Activities								
Appliances (refrigerators, washers, etc.)	0	0		0		2	0	
Batteries	0	0		96		3	33	
Building Materials	0	0		0		34	0	
Cars/Car Parts	0	1		11		0	15	
55-gallon Drums	0	1		0		0	0	
Tires	0	0				0	1	
Medical/Personal Hygiene								
Condoms	0	0		0		0	0	
Diapers	0	0		0		0	0	
Syringes	0	0		0		0	0	
Tampons/Tampon Applicators	0	0				0	22	
Debris Items of Local Concern								
Styrofoam pieces	0	21		0		0	0	
Plastic Pieces	0	0		0		0	0	
Paper products	0	0		0		0	0	
Metal Pieces	0	0		0		15	60	
Other	0	4				0	24	

Entangled Animals

Type of Animal
 Form of Entangling Debris
 Comments

2009 Kachemak CoastWalk Data Sheet

Zone 25 Zone 26 Zone 27 Zone 28 Zone 29 Zone 30 Zone 31 Zone 32

Most Peculiar Item Collected?

Carving

Comments

Clean-up
done as a
part of
Cook Inlet
Keeper
Clean
Harbors
Day

Clean-up
done as a
part of
Cook Inlet
Keeper
Clean
Harbors
Day

Clean-up
done as a
part of
Cook Inlet
Keeper
Clean
Harbors
Day

Additional Observations and Comments

Only surveyed
Jakolof Bay.
Beach looked
very good at
high tide.
Walked a short
way

Survey only of
McDonald Spit.
At the end of
the spit there
is a residence
with a lot of
garbage

2009 Kachemak CoastWalk Data Sheet**2009 totals**

Date
Start Time
End Time
Lowest Tide at time 22 zones surveyed
Temperature (F)
Sky
Vertical Zones Walked:
 High
 Middle
 Low
of Observers 454
Hours Spent 118.95
Person-Hours 901.15
Shoreline Walked (miles) 72.37
Total Trip Mileage 177.02
Did Observers . . .
 Hike?
 Kayak?
 Other (specify)?
Trash Bags Collected 264
Estimated Weight of Collected Trash 4604.5

Wildlife***Birds***

Loons 10
 Sea Ducks 179
 Other Ducks and Geese 33
 Bald Eagles
 Adults 31
 Immatures 5
 Nests 8
 Shorebirds 108
 Seabirds 489
 Crows and Ravens 107
 Others 25

Domestic Mammals

Cattle 0
 Horses 2
 Dogs 59
 Other 0

Land Mammals

Moose 0
 Adults 0
 Calves 0
 Black Bears 1
 Brown Bears 1
 Land/River Otters 5
 Red Squirrels 6
 Tracks Identified 0
 Other 0

Marine Mammals

Sea Otters 13
 Harbor Seals 45
 Steller's Sea Lions 0
 Harbor Porpoises 2
 Whales 0
 Beluga 0
 Orca 0
 Minke 0
 Humpback 0
 Gray 0
 Unknown 0
 Other/Unidentified 1

Please note any unusual wildlife sightings

2009 Kachemak CoastWalk Data Sheet

2009 totals

Invertebrates

(from the Intertidal Biodiversity Checklist)

Please note any interesting observations or changes in abundance here

	66	Invertebrate species richness
Sponges		
Breadcrumb Sponge	x	
Purple Sponge	x	
Cnidarians		
Anemones		
Burrowing Green Anemone	x	
Orange Colonial Anemone		
Frilled (Plumose) Anemone	x	
Christmas Anemone	x	
Sea Jellies		
Moon Jelly	x	
Many-ribbed Hydromedusa		
Compass Jelly		
Lion's Mane Jelly	x	
Worms		
Giant Flatworm	x	
Nemertean		
Amphiporus (Two-spotted) Ribbon Worm		
Red Ribbon Worm	x	
Echiurans		
Fat Innkeeper (Alaskan Spoonworm)	x	
Sipunculids		
Peanut Worm	x	
Annelids		
Mussel Worm (Clam Worm)	x	
Northern Feather Duster Worm (Carpet Worm)		
Cone Worm		
Calcareous Tube Worm	x	
Spiral Tube Worm	x	
Scaleworm		
Brachiopods		
Transverse Lampshell		
Mollusks		
Chitons		
Gumboot Chiton		
Black Katy Chiton	x	
Brick Chiton	x	
Mossy Chiton	x	
Tiger Chiton	x	
Lined Chiton	x	
Limpets	shield limpet	
Dunce Cap Limpet	x	
Plate Limpet	x	
Snails		
Hairy Triton	x	
Sitka Periwinkle	x	
Helicina Margarite		
Puppet Margarite	x	
Aleutian Moonshell	x	
Ridged Neptune		
Channeled Dogwinkle	x	
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		

2009 Kachemak CoastWalk Data Sheet**2009 totals****Clams**

Nuttall's Cockle	x
Northwest Ugly Clam	x
Arctic Rock Borer	x
Baltic Macoma	x
Stained Macoma	
Pacific Surf Clam	
Truncated Mya	x
Steamer Clam (Pacific Littleneck Clam)	x
Butter Clam	x
Razor Clam	

Mussels

Horse Mussel	x
Pacific Blue Mussel	x

Scallops

Pink Scallop	x
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Jingles

Rock Jingle	x
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Cephalopods

Giant Pacific Octopus	x
Stubby Squid	

Arthropods**Barnacles**

Acorn Barnacle	x
Pelagic Gooseneck Barnacle	
Thatched Acorn Barnacle	x

Crabs

Dungeness Crab	x
Black-clawed Cancer Crab	x
Red Hermit Crab	x
Striped Hermit Crab	x
Decorator Crab	x
Carapace Crab	
Red King Crab	
Northern Kelp Crab	x
Helmet Crab	x

Shrimp

Broken-back Shrimp	x
Coonstripe Shrimp	
Sand Shrimp	

Isopods

Pillbug Isopod	
Rockweek Isopod	x

Amphipods

Skeleton Shrimp	
Small Beach Hopper	x

Echinoderms**Sea Stars**

Little Six-rayed Star	x
Red-banded Star (Rainbow Star)	x
Ochre Star	
Sunflower Star	x
Morning Sun Star	x
Stimpson's Sun Star	
Rose Star	x
Leather Star	x
True Star (False Ochre Star, Mottled Star)	x
Blood Star	x

Brittle Stars

Serpent Star	
Daisy Brittle Star	x

Sea Urchins

Green Sea Urchin	x
Red Sea Urchin	

2009 Kachemak CoastWalk Data Sheet

2009 totals

Sea Cucumbers

Silky Burrowing Cucumber x

Orange Cucumber (Red Cucumber) x

Tar-spot Cucumber (Black Cucumber) x

Sand Dollars

Green-spined Sand Dollar (Northern Sand Dollar) x

Chordates

Tunicates

Colonial Tunicate (Sea Pork) x

Sea Peach
bryozoan

Seaweeds

Green Seaweed

Band x

Attached x

Washed Up x

Red Seaweed

Band x

Attached x

Washed Up x

Rockweed

Band x

Attached x

Washed Up x

Kelps

Band x

Attached x

Washed Up x

Eelgrass

Band x

Attached x

Washed Up x

2009 Kachemak CoastWalk Data S

Beach Substrate

Type

Bluff and Cliff Erosion

Comments

2009 totals

all types

present in many
parts of Kachemak Bay

Human Activities

Walking

Signs of 22
Actual observation 54

Camping

Signs of 21
Actual observation 8

Partying

Signs of 10
Actual observation 1

Fire Pits

Signs of 36
Actual observation 45

Trash Accumulations

Signs of 0
Actual observation 1

Clamming

Signs of 3
Actual observation 0

Fishing

Signs of 9
Actual observation 4

Coaling

Signs of 1
Actual observation 2

Picnicking

Signs of 2
Actual observation 1

Horseback Riding

Signs of 1
Actual observation 2

Harvesting (specify)

Signs of 2
Actual observation 1

Other (specify)

Calculated total number of recorded human activities
by summing the numerical observations and
then adding each categorical observations
as an additional record.

2009 Kachemak CoastWalk Data S

<u>Vehicle Use</u>		
Cars/Trucks	Sets of tracks	14
	Actual observation	11
ATVs/Motorcycles	Sets of tracks	11
	Actual observation	0
Bicycles	Sets of tracks	2
	Actual observation	0
Aircraft	Sets of tracks	4
	Actual observation	1
Other (specify)		0

2009 totals

Calculated total number of vehicle use and structure observations by summing the numerical observations and then adding each categorical observations as an additional record.

<u>Structures on the Beach</u>		
Buildings		12
Docks		5
Driftwood Structures		8
Riprapped Areas		8
Erosion Control Structures		6
Abandoned Vehicles		7
Abandoned Boats		1
	Boat Parts	2

<u>Archaeological Sites</u>		
Shell Middens		0
Other (specify)		0

<u>Outfalls or Pipes</u>		
Number		8
Comments		0

<u>Toxic Pollution</u>		
Fuel (oil, gas, etc.)		2
Lubricating Oil		1
Paint		0
Batteries		0

2009 Kachemak CoastWalk Data Sheet**2009 totals****Trash & Debris**

(from International Coastal Cleanup Data Card)

Shoreline and Recreational Activities	
Bags (Paper)	41
Bags (Plastic)	815
Balloons	60
Beverage Bottles, plastic, 2-liter or less	452
Beverage Bottles, glass	652
Beverage Cans	996
Caps, Lids	441
Clothing, Cloth	143
Cups, Plates, Forks, Knives, Spoons	279
Food Wrappers/Containers	823
6-pack Holders	57
Pull Tabs	32
Shotgun Shells/Wadding	230
Straws, Stirrers	98
Toys	69
Ocean/Waterway Activities	
Bait Containers/Packaging	85
Bleach/Cleaner Bottles	19
Buoys/Floats	122
Crab/Lobster/Fish Traps	6
Crates	30
Fishing Line	88
Fishing Lures	16
Fishing Nets	45
Light Bulbs/Tubes	3
Oil/Lube Bottles	40
Pallets	31
Plastic Sheeting/Tarps	208
Rope/cable	354
Strapping Bands	91
Smoking-Related Activities	
Cigarettes/Cigarette Filters	1321
Cigarette Lighters	66
Cigar Tips	28
Tobacco Packaging/Wrappers	51
Dumping Activities	
Appliances (refrigerators, washers, etc.)	6
Batteries	140
Building Materials	959
Cars/Car Parts	587
55-gallon Drums	3
Tires	16
Medical/Personal Hygiene	
Condoms	25
Diapers	5
Syringes	6
Tampons/Tampon Applicators	29
Debris Items of Local Concern	
Styrofoam pieces	2574
Plastic Pieces	327
Paper products	211
Metal Pieces	121
Other	105
Entangled Animals	
Type of Animal	Kittiwake
Form of Entangling Debris	fishing line
Comments	dead

2009 Kachemak CoastWalk Data Sheet

2009 totals

Most Peculiar Item Collected?

Comments

Additional Observations and Comments