

## Zone 27

Shore south  
Total Surveys 9  
Start Point Kasitsna Bay

Zone 27 is composed of

Start Lat/Long  
End Point west base of MacDonald Spit  
End Lat/Long

Dates Walked 1987-89, 96, 2003, 08-09  
Spring Surveys 8  
Fall Surveys 3  
First Walked 1987  
Last Walked 2014  
Total Person-Hours 254.75  
Total Trash Bags Collected 21.5  
Total Estimated Weight of Trash Collected 595

### General Info

Date 25-Apr-87 28-Apr-88 8-May-88 29-Apr to 6  
Start Time 700  
End Time 1015  
Lowest Tide

at time

Temperature (F)  
Sky

Vertical Zones Walked:

High x  
Middle  
Low x

# of Observers	5	2	4	2	3
Hours Spent	3.25	3	1	4.5	2
Person-Hours	16.25	6	4	9	6
Shoreline Walked (miles)	3	3		1.5	2
Total Trip Mileage					
Did Observers . . .					

Hike?	x	x		x	x
Kayak?					
Other (specify)?					

Trash Bags Collected  
Estimated Weight of Collected Trash

### Wildlife Birds

Loons		6	1		
Sea Ducks	30	162			30
Other Ducks and Geese		6			
Bald Eagles					
Adults	7	1	1	2	
Immatures	2		4	3	2

	Nests			
Shorebirds				
Seabirds		24	4	20
Crows and Ravens		4		
Others (see separate Bird list)	2	28	2	

***Domestic Mammals***

Cattle	
Horses	
Dogs	1
Other	

***Land Mammals***

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

***Marine Mammals***

Sea Otters	2		
Harbor Seals			
Steller's Sea Lions		4	1
Harbor Porpoises			
Whales			
		Beluga	
		Orca	
		Minke	
		Humpback	
		Gray	
		Unknown	

Other/Unidentified

***Please note any unusual wildlife sightings***

1 male mallard eaten t 1 dead sea lion.

**Invertebrates**

*(from the Intertidal Biodiversity Checklist)*

***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**

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 Moonshell

Ridged Neptune

Channeled Dogwinkle

Emarginate Dogwinkle

Friiled Dogwinkle

File Dogwinkle

Big-mouth Whelk

**Nudibranchs**

Maned Nudibranch

False Sea Lemon (False Lemon Peel)

Orange-tipped Nudibranch

Opalescent Nudibranch

Bushy-backed Nudibranch		
<b>Clams</b>	x	
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>Mussels</b>	x	x
Horse Mussel		
Pacific Blue Mussel		
<b>Scallops</b>		
Pink Scallop		
<b>Jingles</b>		
Rock Jingle		
<b>Cephalopods</b>		
Giant Pacific Octopus		
Stubby Squid		
<b>Arthropods</b>		
<b>Barnacles</b>		x
Acorn Barnacle		
Pelagic Gooseneck Barnacle		
Thatched Acorn Barnacle		
<b>Crabs</b>	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		
<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>	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

x

x

**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

x

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

**Beach Substrate**

Type

rocky, sand, pebbles

rocky, pebl

rocky

**Bluff and Cliff Erosion**

Comments

serious both sides of spit

slight

**Human Activities**

Walking	Signs of Actual observation	3	1	
Camping	Signs of Actual observation	6		
Partying	Signs of Actual observation			
Fire Pits	Signs of Actual observation			
Trash Accumulations	Signs of Actual observation	1		
Clamming	Signs of Actual observation			1
Fishing	Signs of Actual observation			
Coaling	Signs of Actual observation			
Picnicking	Signs of Actual observation			
Horseback Riding	Signs of Actual observation			
Harvesting (specify)	Signs of Actual observation			
Other (specify)			Subsistence activity.	Subsistenc Living.

**Vehicle Use**

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

**Structures on the Beach**

Buildings	37	many		
Docks				
Driftwood Structures				
Riprapped Areas		1		
Erosion Control Structures				
Abandoned Vehicles				
Abandoned Boats	2	1	2	
Boat Parts				

**Archaeological Sites**

Shell Middens	1	5	1 new	
Other (specify)		4 washing away		

**Outfalls or Pipes**

Number  
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	16			
Beverage Bottles, glass	3			
Beverage Cans	20			
Caps, Lids				
Clothing, Cloth	2			
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	5			
Crab/Lobster/Fish Traps	3			
Crates				
Fishing Line				

Fishing Lures			
Fishing Nets	3	3	2
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	1		
Cars/Car Parts	1		1
55-gallon Drums	2		
Tires	5		

***Medical/Personal Hygiene***

Condoms  
 Diapers  
 Syringes  
 Tampons/Tampon Applicators

***Debris Items of Local Concern***

Styrofoam Pieces			Coal chunks.
Plastic Pieces			6
Paper products			
Metal Pieces			
Other			

***Entangled Animals***

Type of Animal  
 Form of Entangling Debris  
 Comments

***Most Peculiar Item Collected?***

***Comments***

Glass, met We didn't find much tr: Glass and \

**Additional Observations and Comments**

Covered M A midden exposed in spring of '87



of Seldovia subzone 27.

29-Apr to 6	30-Apr-89	12-May-89	24-Sep-96	06.09.03	9.3.08	9.16-20.09	9.12.10	9.13.11
	930	1100	1100	1100	1015		1:00pm	
	1030	1400	1330	1400	1200		3:00pm	
					0.9	-1		
					1130	717		
			60	50	50	50	60	
			sunny	sunny		clouds	clear	
				x		x	x	
			x			x	x	
2	2	1	2	2	9	7	7	9
4.5	1	3	2.5	3	2	5	5	5
9	2	3	5	6	18	31	35	45
		3	1	1	0.5	1.5	4	3
				1.5		3	3	
	x	x	x	x	x	x	x	x
skiff			boat					
		1		1	0.5	4	1	5
				20	35	70	20	200
70	10	2		2				
	46	90		60				
		7						
	3	2		1				
2	2							

		1					
		40					
22	4	75		400	12	10	1
12		40		25	1	3	
6	10	5			1		1
				0			
				0		1	
4		3	2	0		30	1
				0			
				0			
				0			
				0			
				0			
				0			
		river otter	dog	1			
				0			
				0			
2		1		5	5		
	1			2			
		5		0			
				10	2		
				0			
				0			
				0			
				0			
				0			
				0			
				0			

1 murre wit 1 moose hi 1 remains of murre, ligh while nearshore in our boat on the way over looking for a

Lots of nev Tide too high.

so many lions manes v

			x	
			x	
		x		
				x
			x	
			x	
				x

			lots	
	x		x	
			x	
	x		x, many!	
			x	x
		x	x	
		x		x
		x		x
		x	x	
		x		
x				x
		x		
			x	
			x	
x				
		x		
		x		x
x				
		x		
		x		
				x
				x

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molts only

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x

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x

x

x

x

x

x

x

x

	x		x		x		x	x
				x				
x				x		x		
				x		x		x
x	x		x	x				
				x				
				x				
	x		x	x				
				x				
				x				
x				x				
				x			x	
				x			x	
			x	x		x		
			x					
all	rocky, pebl	sand	rocky, pebtand and mu	mud	ible, mud, r			sand
	severe botl	slight, also l	slight		yes			no

4	2	1	1	x		x
		1	1			x
1		1	1	x		
		1				
				x		

x  
x

1		1	1			x
		1				
1		1	1	1		x

1

Subsistenc 1 boat--cat Subsistence activity.

clamming  
crab pots  
home building

	1					
1			1			x
		2		1		x
						x
	6	1				

30

45

4

2

x

several

one

all over beach

2

2

1

x

4

outhouse at edge of bluff

1  
1

0  
0  
6  
0  
0  
0  
2  
0  
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10  
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9

2  
  
  
  
  
  
  
  
  
1

12  
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7  
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4  
4  
  
1

			0			
		3	3			
1			0			
1			0			
			0		1	
			1	1	4	1
			9		3	6
			0			1
			0			1
			0			
			0			
			0			
			0			
			0			
			0			
2			0		1	7
	2		0	2	1	
		4	0		1	
			0			1
			0			
			0			
			0			
			0			

Rail from e Collected all oil mousse that was seen. Approximately 1/3 cup mousse, mostly oil

21	15	56	
	11	60	
	2		
			1
4		1	

vehicle/boat Chunks of Lots of styrc Buoy common. All other trash rare.

Large styrofoam piece: Plastic sheeting and net

by a fallen tree has no Covered boat Overall condition okay.

Survey only of McDonald Spit. At the



9.23.12 9.6.2014  
11:15  
2:45

55  
cloudy/slightly sunny

14 5  
3 3.5  
42 17.5  
2 2  
2 2

x x

8 1  
250

TOTAL

0

21  
488  
13

2

17  
15

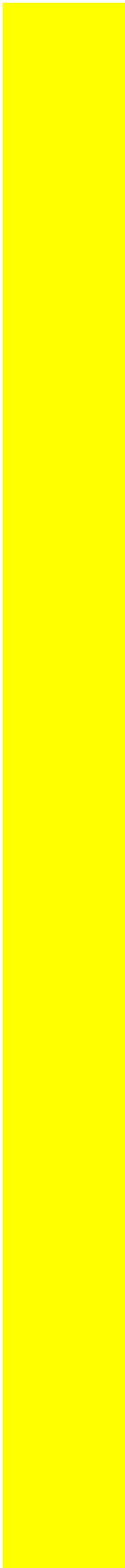
	1
	40
50	622
	85
	55
	0
	1
3	44
	0
	0
	0
	0
	0
	0
	1
	0
	0
3	18
1	4
	10
	12
	0
	0
	0
	0
	0
	0
	0

place to beach, 10 porpoises were playing near the bow of the skiff. We put the boat in idle, and they cc

vasjed up at high/mid tide line







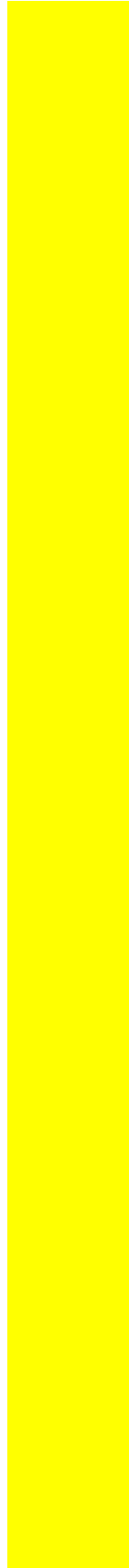
x

sandy

x  
x

x

x



10	27	54
	1	2
12	13	57
4	3	14
12	16	61
6	10	30
2		9
1	4	11
12	33	48
		0
		0
4		18
	3	5
1		6
2		2
1		3
4	4	21
		4
1		1
	3	13

		0
	6	20
		1
4		5
		1
2		13
21	13	61
	2	4
	1	3
		0
		0
3		3
		0
		0
24	12	45
		13
		3
		6
		0
1	1	2
		0
		0
n kelp. Total of about 21 gobs.		
329	528	955
33	9	113
2		4
29		30
2	15	22

s clothing, cardboard pieces and shotgun waddings.  
 at buried

re end of the spit there is a residence with a lot of garbage at the high tide line: styrofoam, building insul:



0

Continued playing for about a half an hour!!! Terry has a lot of ocean experience and has never had such a











ation, an old rug, and other garbage. An empty oil drum is on 3/4 way up the east side of the spit.





an amazing encounter before, let alone in Kachemak Bay or with the usually very shy harbor porpoise s;

















pecies.