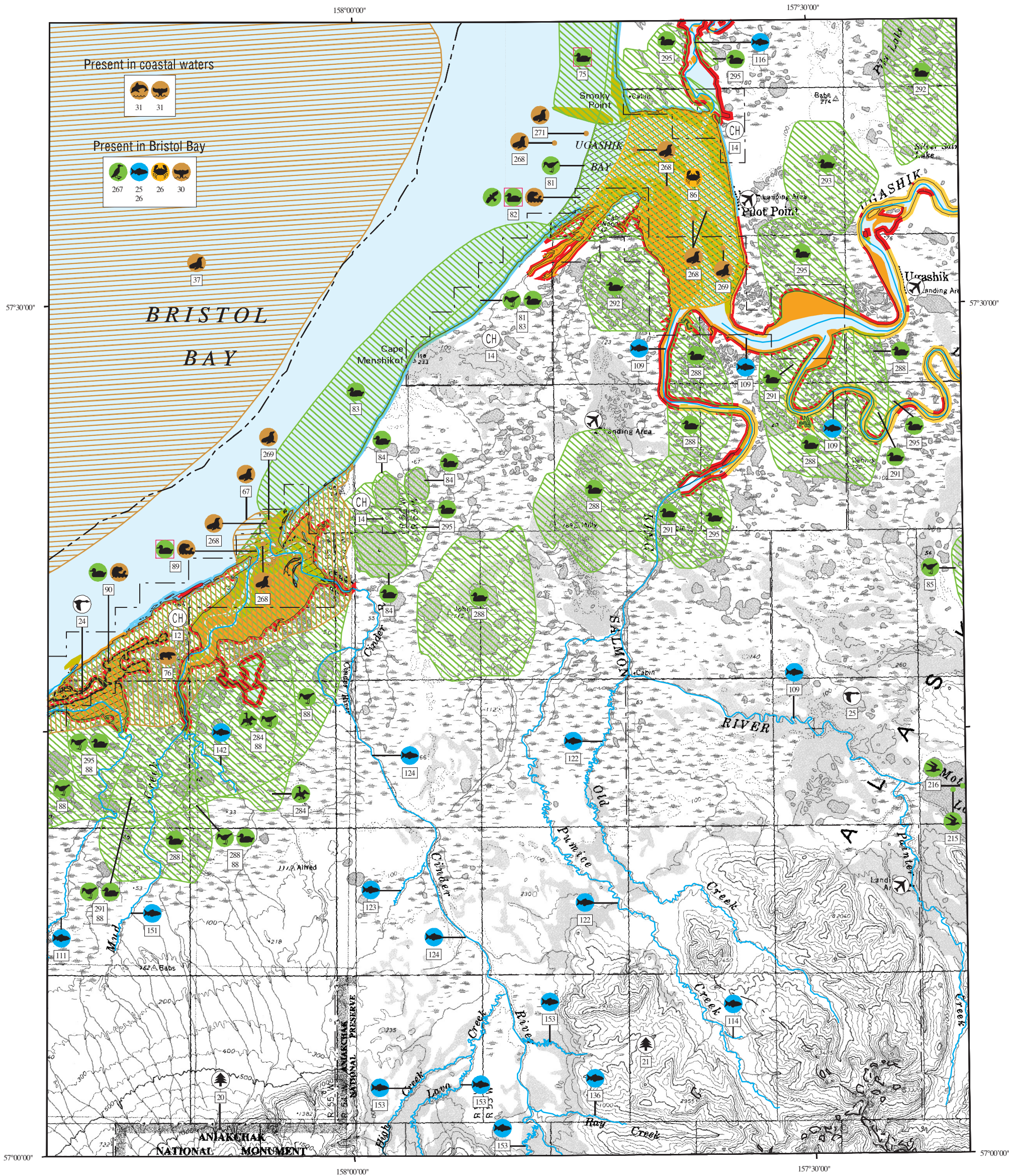


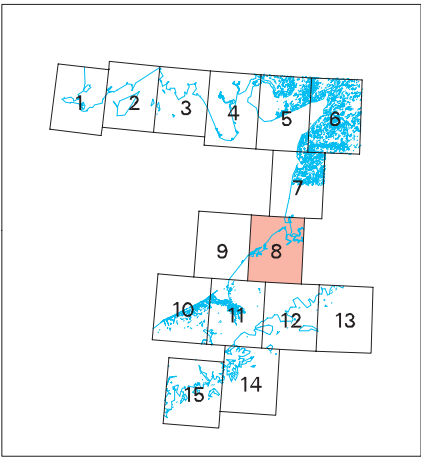
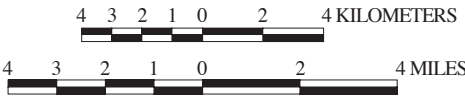
ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN MUD AND CLAY
- 8E PEAT SHORELINES
- 9A SHELTERED TIDAL FLATS
- 10A SALT-AND BRACKISH-WATER MARSHES

SCALE 1:250000



Bristol Bay: ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting	
75	Black scoter			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Canada goose			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Emperor goose			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	King eider			100S								X	X	X			-	-		-	
	Long-tailed duck			1,000S					X	X							-	APR-MAY		-	
	Northern pintail			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Scaup			100S					X	X							-	APR-MAY		-	
	Steller's eider	C	T	100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	White-winged scoter			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
81	Bar-tailed godwit			10S					X	X	X	X	X	X			-	APR-OCT		-	
	Dunlin			1,000S					X	X	X	X	X	X			MAY-JUL	MAY-OCT		-	
	Greater yellowlegs			100S							X	X	X	X			-	JUN-OCT		-	
	Marbled godwit			100S					X	X	X	X	X	X			MAY-JUL	APR-OCT		-	
	Pectoral sandpiper										X	X	X	X			-	JUN-OCT		-	
	Sharp-tailed sandpiper										X	X	X	X			-	JUN-OCT		-	
	Short-billed dowitcher										X	X	X	X			-	JUN-OCT		-	
	Western sandpiper										X	X	X				-	MAY-JUL		-	
82	Bald eagle					X	X	X	X	X	X	X	X	X	X	X	-	-		-	
	Black scoter			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Canada goose			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Emperor goose			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	King eider			1,000S					X	X	X	X	X	X			-	APR-MAY	AUG-OCT	-	
	Long-tailed duck			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Northern pintail			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Scaup			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Steller's eider	C	T	100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	White-winged scoter			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
83	Black scoter			1,000S					X	X		X	X	X	X		-	APR-MAY	AUG-OCT	JUL-OCT	
	Long-tailed duck			100S					X	X							-	APR-MAY		-	
84	Greater white-fronted goose										X	X					-	-		JUL-AUG	
85	Marbled godwit			1,000-3,000							X	X					JUN-JUL	-		-	
88	Bar-tailed godwit			1,000S					X	X	X	X	X	X	X		MAY-JUL	APR-OCT		-	
	Dunlin			10,000S					X	X	X	X	X	X	X		MAY-JUL	APR-OCT		-	
	Greater yellowlegs			100S							X	X	X	X	X		-	JUN-OCT		-	
	Long-billed dowitcher										X	X	X	X	X		-	JUN-OCT		-	
	Marbled godwit			100S					X	X	X	X	X	X	X		-	APR-OCT		-	
	Pacific golden-plover								X	X	X	X	X	X			-	MAY-OCT		-	
	Pectoral sandpiper			100S							X	X	X	X	X		-	JUN-OCT		-	
	Rock sandpiper			1,000S					X	X	X	X	X	X	X		-	APR-OCT		-	
	Sharp-tailed sandpiper			1,000S							X	X	X	X	X		-	JUN-OCT		-	
	Short-billed dowitcher			100S					X	X	X						-	APR-JUN		-	
	Western sandpiper			100S					X	X	X	X	X	X	X		-	APR-OCT		-	
89	Black scoter			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Canada goose			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Emperor goose			10,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	King eider			1,000S					X	X	X	X	X	X			-	APR-MAY	AUG-OCT	-	
	Northern pintail			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	Steller's eider	C	T	1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	JUL-AUG	
	White-winged scoter			100S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
90	Canada goose			100S								X	X	X			-	AUG-OCT		-	
	Emperor goose			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
	King eider			1,000S					X	X	X	X	X	X			-	APR-MAY	AUG-OCT	-	
	Northern pintail			1,000S					X	X		X	X	X			-	APR-MAY	AUG-OCT	-	
215	Glaucous-winged gull			310					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-	
216	Glaucous-winged gull			284					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-	
267	Kittlitz's murrelet					X	X	X	X	X			X	X	X	X	-	-		-	
284	Pacific loon			1-1.5 BIRDS/SQ.KM					X	X	X	X	X				MAY-JUN	MAY-MAY	JUL-SEP	-	
288	Scaup			3-8 BIRDS/SQ.KM					X	X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-	
291	Scaup			3-8 BIRDS/SQ.KM					X	X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-	
	Tundra swan			1-1.5 BIRDS/SQ.KM					X	X	X	X	X				MAY-JUN	MAY-MAY	JUL-SEP	-	
292	Black scoter			3-7 BIRDS/SQ.KM					X	X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-	
	Scaup			3-8 BIRDS/SQ.KM					X	X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-	
	Tundra swan			1-1.5 BIRDS/SQ.KM					X	X	X	X	X				MAY-JUN	MAY-MAY	JUL-SEP	-	
293	Black scoter			3-7 BIRDS/SQ.KM					X	X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-	
295	Tundra swan			1-1.5 BIRDS/SQ.KM					X	X	X	X	X				MAY-JUN	MAY-MAY	JUL-SEP	-	
FISH:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
25	Chinook salmon									X	X	X	X				-	-	-	MAY-JUN	MAY-AUG
	Chum salmon (dog)									X	X	X	X				-	-	-	MAY-JUN	JUN-AUG
	Coho salmon (silver)									X	X	X	X	X	X		-	-	-	MAY-JUN	JUL-OCT
	Dolly varden									X	X	X	X				-	-	-	MAY-JUN	MAY-SEP
	Pink salmon (humpy)									X	X	X					-	-	-	MAY-JUN	JUN-JUL
	Sockeye salmon (red)			HIGH						X	X	X					-	-	-	MAY-JUN	MAY-AUG
26	Alaska plaice				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAY-JUN	MAY-JUN	JAN-DEC	JAN-DEC
	Pacific cod				X	X	X	X	X												

Biological information shown on the maps represents known concentration areas or occurrences, but does not necessarily represent the full distribution or range of each species. This is particularly important to recognize when considering potential impacts to protected species.

Bristol Bay: ESIMAP 8 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
-----		-	-	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----	-----	-----
136	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
142	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
151	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
153	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP

INVERTEBRATE:																								
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults			
26	Red king crab				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	-	JAN-DEC	JAN-DEC			
	Tanner crab				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	JAN-DEC	JAN-DEC			
86	Red king crab			HIGH						X	X	X					-	-	-	MAY-JUL	-			

MARINE MAMMAL:																				
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Molting	Pupping

30	Gray whale							X	X	X							-	-	-	-
31	Harbor porpoise									X	X	X					-	-	-	-
	Killer whale						X	X	X	X	X	X	X	X			-	SEP-OCT	-	-
	Minke whale									X	X	X					-	-	-	-
37	Walrus			HIGH						X	X	X	X	X			-	-	-	-
67	Seals			HIGH			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL
82	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC
89	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC
90	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC
268	Seals			100S			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL
269	Seals			<10			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL
271	Seals			1,000S			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL

TERRESTRIAL MAMMAL:																
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
-----		-----			-----											
76	Brown bear			HIGH						X	X	X				
=====																

HUMAN USE RESOURCES:

HUN#	Name	Owner	Contact	Phone

12	CINDER RIVER CRITICAL HABITAT AREA	ALASKA DEPT. OF FISH & GAME	MARK FINK	907/267-2342
14	PILOT POINT CRITICAL HABITAT AREA	ALASKA DEPT. OF FISH & GAME		

HUN#	Name	Owner	Contact	Phone

20	ANIAKCHAK NATIONAL MONUMENT	NATIONAL PARK SERVICE		907/246-3305
21	ANIAKCHAK NATIONAL MONUMENT & PRESERVE	NATIONAL PARK SERVICE		907/246-3305

HUN#	Name	Owner	Contact	Phone

24	ALASKA MARITIME NWR	US FISH & WILDLIFE SERVICE	REFUGE MANAGER	907/246-3339
25	ALASKA PENINSULA NWR	US FISH & WILDLIFE SERVICE	REFUGE MANAGER	907/246-3339

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