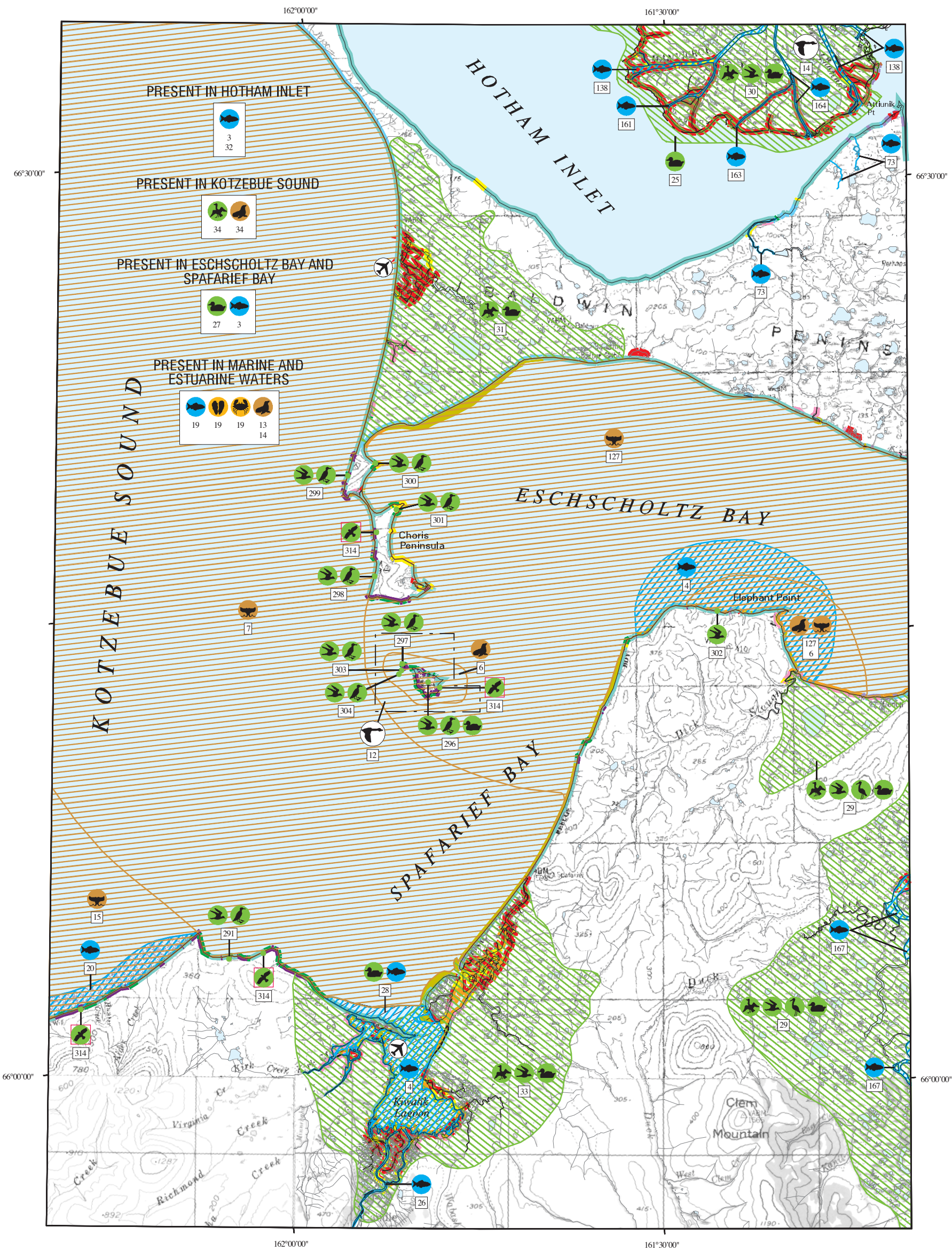
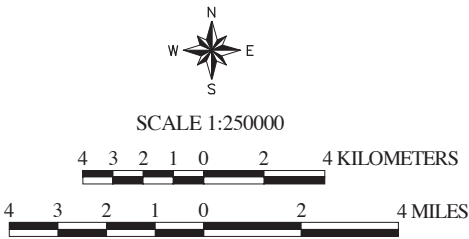


ENVIRONMENTAL SENSITIVITY INDEX MAP



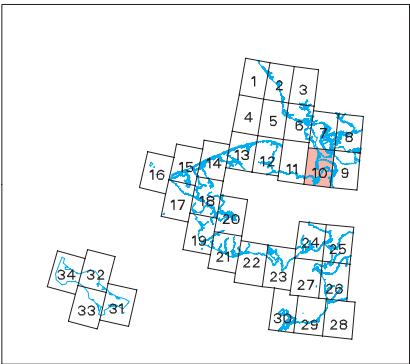
SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 1B EXPOSED, SOLID MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 2B EXPOSED SCARPS AND STEEP SLOPES IN CLAY
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 3B SCARPS AND STEEP SLOPES IN SAND
- 3C TUNDRA CLIFFS
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN MUD AND CLAY
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 8E PEAT SHORELINES
- 9A SHELTERED TIDAL FLATS
- 9B SHELTERED, VEGETATED LOW BANKS
- 10A SALT- AND BRACKISH-WATER MARSHES
- 10D SCRUB-SHRUB WETLANDS
- 10E INUNDATED, LOW-LYING TUNDRA



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Hazardous Materials Response Division



NW ARCTIC, AK - ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Pre-nest	Nesting	Post-nest	
25	Geese			HIGH						X	X	X	X	X			-	-	-	-
	Tundra swan			HIGH						X	X	X	X	X			-	-	-	-
27	Surf scoter			HIGH				X	X	X	X	X	X				-	-	-	-
28	Greater scaup			100s						X	X	X	X				-	-	JUN-SEP	-
29	American wigeon			100s								X	X				-	-	AUG-SEP	-
	Arctic tern							X	X	X	X						MAY-JUN	MAY-AUG	JUL-AUG	-
	Black scoter							X	X	X	X	X	X	X			MAY-JUN	JUN-SEP	JUN-OCT	-
	Canada goose			1000s								X	X				-	-	AUG-SEP	-
	Common eider							X	X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	Greater scaup							X	X	X	X	X	X				MAY-JUN	MAY-SEP	JUN-SEP	-
	Long-tailed duck							X	X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP	-
	Northern pintail							X	X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Pacific loon							X	X	X	X	X	X				MAY-JUN	MAY-SEP	AUG-SEP	-
	Red-breasted merganser			HIGH				X	X	X	X	X	X	X			MAY-JUN	JUN-OCT	JUL-OCT	-
	Red-throated loon							X	X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
	Sandhill crane			HIGH				X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
	Snow goose			100s				X	X								-	-	-	-
30	Arctic tern							X	X	X	X						MAY-JUN	MAY-AUG	JUL-AUG	-
	Black scoter							X	X	X	X	X	X	X			MAY-JUN	JUN-SEP	JUN-OCT	-
	Greater scaup							X	X	X	X	X					MAY-JUN	MAY-SEP	JUN-SEP	-
	Long-tailed duck							X	X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP	-
	Northern pintail							X	X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Pacific loon							X	X	X	X	X	X				MAY-JUN	MAY-SEP	AUG-SEP	-
	Red-throated loon							X	X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
31	Greater scaup							X	X	X	X	X	X				MAY-JUN	MAY-SEP	-	-
	Long-tailed duck							X	X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP	-
	Northern pintail							X	X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Red-breasted merganser							X	X	X	X	X	X	X			MAY-JUN	JUN-OCT	JUL-OCT	-
	Red-throated loon							X	X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
33	Arctic tern							X	X	X	X						MAY-JUN	MAY-AUG	JUL-AUG	-
	Black scoter							X	X	X	X	X	X				MAY-JUN	JUN-SEP	JUN-OCT	-
	Canada goose			1000s								X	X				-	-	AUG-SEP	-
	Common eider							X	X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	Greater scaup							X	X	X	X	X	X				MAY-JUN	MAY-SEP	-	-
	Long-tailed duck							X	X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP	-
	Northern pintail							X	X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Red-breasted merganser							X	X	X	X	X	X	X			MAY-JUN	JUN-OCT	JUL-OCT	-
	Red-throated loon							X	X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
	Snow goose			100s				X	X								-	-	-	-
	Yellow-billed loon							X	X	X	X	X	X				MAY-JUN	JUN-OCT	SEP-OCT	-
34	Red-throated loon									X	X	X	X	X			-	-	-	-
291	Glaucous gull			54				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			40				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
296	Common eider			16				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			120				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			20				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			2800				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Thick-billed murre			180				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			10				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
297	Black-legged kittiwake			3308				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			24				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			10000				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Murre			10400				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Thick-billed murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			10				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
298	Glaucous gull			14				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			70				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			4				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
299	Glaucous gull			90				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			60				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
300	Glaucous gull			6				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			50				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
301	Glaucous gull			7				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			30				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
302	Arctic tern			20				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
303	Black-legged kittiwake			84				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			20				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			8				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Murre			300				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Thick-billed murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
304	Black-legged kittiwake			106				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			30				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			10				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Murre			80				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Thick-billed murre			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
314	Arctic peregrine falcon	S	C					X	X	X	X	X	X				-	APR-SEP	-	-

NW ARCTIC, AK - ESIMAP 10 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults	
3	Pacific herring				X	X	X	X								X	X	-	-	-	NOV-APR	NOV-APR
4	Pacific herring							X	X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP	
19	Chinook salmon								X	X	X						-	-	-	MAY-JUL	JUN-JUL	
	Chum salmon (dog)							X	X	X	X						-	-	-	MAY-JUL	JUN-AUG	
	Coho salmon (silver)							X	X	X	X						-	-	-	MAY-JUL	AUG-AUG	
	Dolly varden							X	X	X	X	X	X				-	-	-	MAY-JUL	AUG-OCT	
	Pink salmon (humpy)							X	X	X							-	-	MAY-JUL	MAY-JUL	JUN-JUL	
	Rainbow smelt				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC	
	Saffron cod				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC	
	Starry flounder								X	X	X						-	-	-	JUN-AUG	JUN-AUG	
20	Pacific herring							X	X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP	
26	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP	
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	AUG-SEP	AUG-DEC	DEC-JUN	JAN-DEC	AUG-SEP	
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUN	MAY-JUN	JUL-AUG	
28	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV	
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV	
32	Burbot									X	X	X	X				-	-	-	-	JUN-OCT	
	Northern pike									X	X	X	X	X			-	-	-	-	JUN-OCT	
	Sheefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	NOV-APR	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
73	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
138	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP	
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUN	MAY-JUN	JUL-AUG	
	Sheefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
161	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP	
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUN	MAY-JUN	JUL-AUG	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
163	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP	
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUN	MAY-JUN	JUL-AUG	
164	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUN	MAY-JUN	JUL-AUG	
167	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUL	JAN-DEC	JUL-AUG	
	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP	
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	AUG-SEP	AUG-DEC	DEC-JUN	JAN-DEC	AUG-SEP	
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Pink salmon (humpy)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUN	MAY-JUN	JUL-AUG	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC	

INVERTEBRATE:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawn/Mate	Eggs	Larvae	Juveniles	Adults
					-	-	-	-	-	-	-	-	-	-	-	-					
19	Alaska razor clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Butter clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Crenulate astarte				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Helmet crab				X	X	X	X	X	X						X	X	-	-	-	-
	Pinkneck clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Siberia softshell clam				X	X	X	X	X	X	X	X	X			X	X	-	-	-	-
	Softshell clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-

MARINE MAMMAL:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
					-	-	-	-	-	-	-	-	-	-	-	-				
6	Spotted seal			HIGH						X	X	X	X	X	X		-	-	-	-
7	Beluga whale			HIGH						X	X	X					-	JUN-AUG	-	-
13	Ringed seal				X	X	X	X	X	X				X	X	X	-	-	MAR-MAY	MAR-JUN
14	Spotted seal									X	X	X	X	X	X		-	-	-	-
15	Beluga whale									X	X	X	X	X			-	JUN-AUG	-	-
34	Bearded seal				X	X	X	X	X	X	X			X	X	X	-	-	-	-
	Walrus									X	X	X					-	-	-	-
127	Beluga whale			VERY HIGH						X	X	X					-	JUN-AUG	-	-

HUMAN USE RESOURCES:

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
12	CHAMISSO ISLAND REFUGE		US FISH & WILDLIFE SERVICE	907/235-6961
14	SELAWIK NATIONAL WILDLIFE REFUGE		US FISH & WILDLIFE SERVICE	907/442-3799

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.