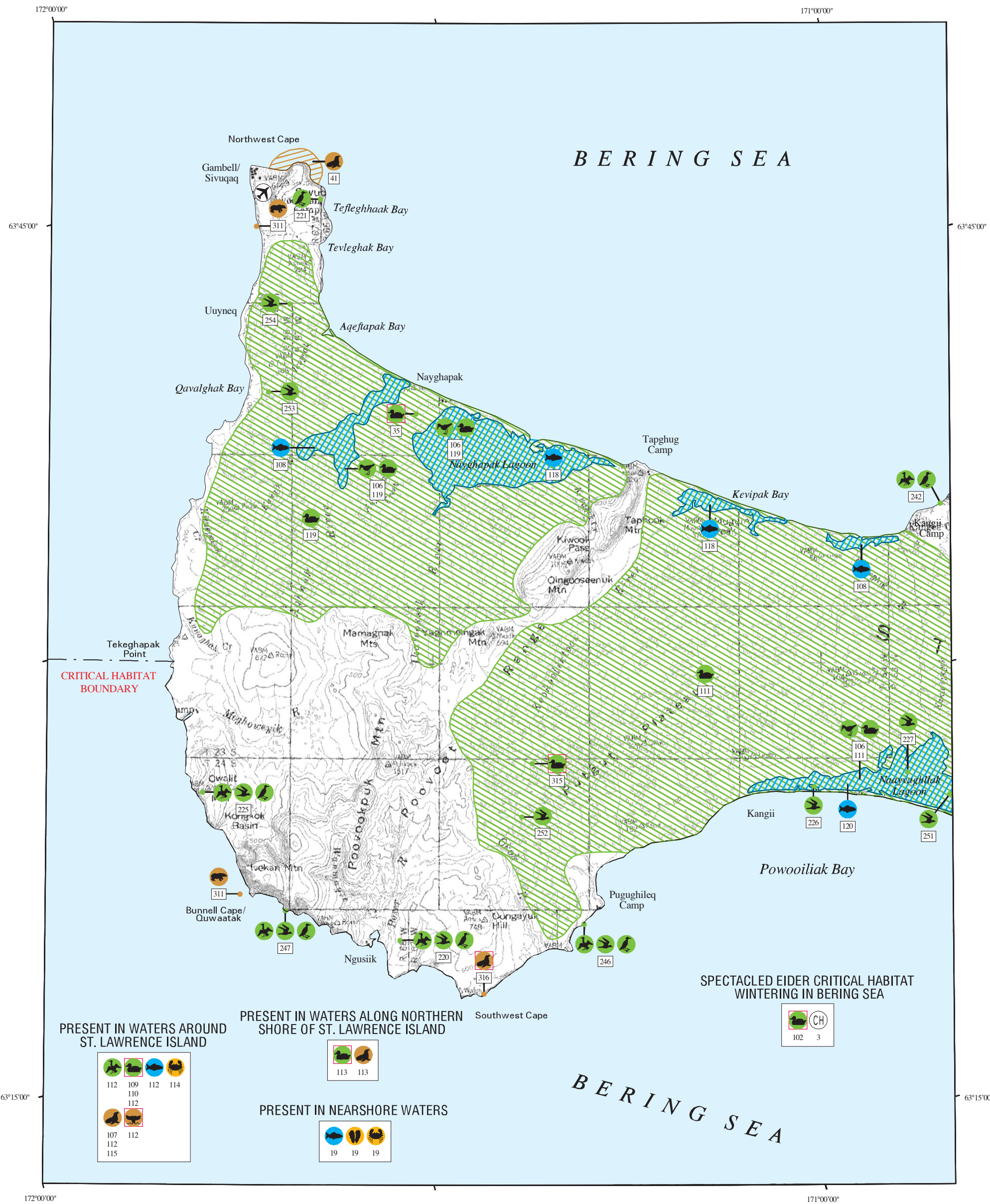


ENVIRONMENTAL SENSITIVITY INDEX MAP



PRESENT IN WATERS AROUND ST. LAWRENCE ISLAND



PRESENT IN WATERS ALONG NORTHERN SHORE OF ST. LAWRENCE ISLAND



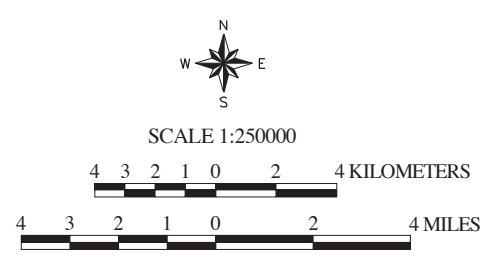
PRESENT IN NEARSHORE WATERS



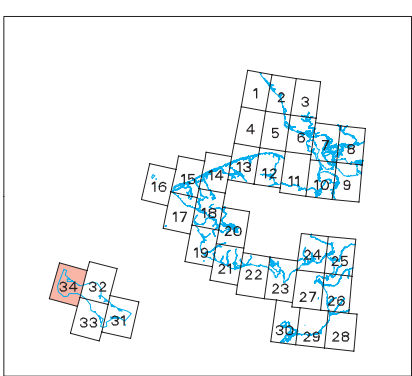
SPECTACLED EIDER CRITICAL HABITAT WINTERING IN BERING SEA



- 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 34

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
35	Spectacled eider	S/F	C/T						X	X	X	X	X	X	X	X	APR-JUN	JUN-AUG	JUL-NOV
102	Spectacled eider	S/F	C/T	363030	X	X	X	X					X	X	X	X	-	-	-
106	Dunlin			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Dunlin			10000s							X	X	X				-	-	JUL-SEP
	Long-billed dowitcher			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Long-billed dowitcher			10000s							X	X	X				-	-	JUL-SEP
	Pacific golden-plover			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Pacific golden-plover			10000s							X	X	X				-	-	JUL-SEP
	Red phalarope			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Red phalarope			10000s							X	X	X				-	-	JUL-SEP
	Red-necked phalarope			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Red-necked phalarope			10000s							X	X	X				-	-	JUL-SEP
	Rock sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Rock sandpiper			10000s							X	X	X				-	-	JUL-SEP
	Ruddy turnstone			1000s					X	X	X						MAY-JUN	MAY-JUL	-
	Ruddy turnstone			10000s							X	X	X				-	-	JUL-SEP
109	Common eider			1000s	X	X	X	X							X	X	X	-	-
	King eider			1000s	X	X	X	X							X	X	-	-	-
	Long-tailed duck			1000s	X	X	X	X							X	X	X	-	-
110	Brant			100s									X	X			-	-	AUG-SEP
	Greater scaup			1000s						X	X	X	X				-	-	JUN-SEP
	Tundra swan			10s							X	X	X	X			-	-	JUL-OCT
111	Brant								X	X	X	X	X				MAY-JUL	MAY-SEP	AUG-SEP
	Common eider			100s					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP
	Emperor goose			10s					X	X	X	X	X				-	MAY-SEP	-
	Greater scaup								X	X	X	X	X				MAY-JUN	MAY-SEP	JUN-SEP
	Long-tailed duck								X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP
	Snow goose			1000s					X	X		X	X	X			MAY-JUN	-	AUG-OCT
	Tundra swan			10s					X	X	X	X	X	X			MAY-JUN	MAY-SEP	JUL-OCT
112	Emperor goose			1000s					X			X	X				MAY-MAY	-	AUG-SEP
	Red-throated loon				X	X	X	X	X	X	X	X	X				-	-	-
	Snow goose			1000s					X	X		X	X	X			MAY-JUN	-	AUG-OCT
	Steller's eider	S/F	C/T	1000s	X	X	X	X	X	X	X	X	X				-	-	-
113	Spectacled eider	S/F	C/T	1000s	X	X	X	X	X	X	X	X	X				-	-	-
119	Common eider			FEW					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP
	Long-tailed duck			FEW					X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP
220	Black-legged kittiwake			5634	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			16758	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			290	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			1299	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			248	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			1314	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			313	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			18696	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			486	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
221	Crested auklet			127500	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Dovekie			9	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			830	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			382600	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			UNKNOWN	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			795	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			251	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
225	Black-legged kittiwake			5390	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			29070	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			109900	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			18	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			660	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			106014	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			1069	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			708	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			585	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			6343	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			948	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
226	Herring gull			UNKNOWN	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
227	Glaucous gull			44	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			44	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
242	Black-legged kittiwake			3432	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			1904	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			75	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			162	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			6	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			209	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			6198	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			42	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
246	Black-legged kittiwake			2	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			2	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			115	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			84	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			434	X	X	X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			282</															

NW ARCTIC, AK - ESIMAP 34 (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
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
108	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
	Whitefish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
112	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
118	Chum salmon (dog)				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
	Rainbow smelt											X	X	X			-	-	-	-	SEP-NOV
	Saffron cod											X	X	X			-	-	-	-	SEP-NOV
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
120	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC
	Rainbow smelt											X	X	X			-	-	-	-	SEP-NOV
	Saffron cod											X	X	X			-	-	-	-	SEP-NOV
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	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	-	-	-	-	-
114	Blue king crab				X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	JAN-DEC	FEB-JUN	JAN-DEC	JAN-DEC

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
41	Walrus			HIGH	X	X	X	X	X	X				X	X	X	-	-	-	-
107	Walrus			HIGH	X	X	X	X	X	X				X	X	X	-	-	-	-
112	Beluga whale						X	X									-	-	-	-
	Blue whale	S/F	E/E							X	X	X	X	X	X		-	-	-	-
	Bowhead whale	S/F	C/E				X	X									-	-	-	-
	Fin whale	F	E							X	X	X	X	X	X	X	-	-	-	-
	Gray whale									X	X	X	X	X	X	X	-	-	-	-
	Killer whale									X	X	X	X	X	X	X	-	-	-	-
	Minke whale									X	X	X					-	-	-	-
	Northern right whale	S/F	E/E							X	X	X	X	X	X		-	-	-	-
	Ringed seal				X	X	X	X	X	X				X	X	X	-	-	MAR-MAY	MAR-JUN
113	Bearded seal			HIGH				X	X	X							-	-	-	-
115	Spotted seal			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-JUL
311	Polar bear				X	X	X	X	X					X	X	X	-	-	OCT-MAY	-
316	Steller (Northern) sea lion	S/F	C/E							X	X	X	X	X	X		-	-	JUN-JUL	JUL-NOV

HUMAN USE RESOURCES:

CRITICAL HABITAT:															
HUN#	Name	Owner					Contact					Phone			
3	SPECTACLED EIDER CRITICAL HABITAT						US FISH & WILDLIFE SERVICE					907/271-2781			

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.