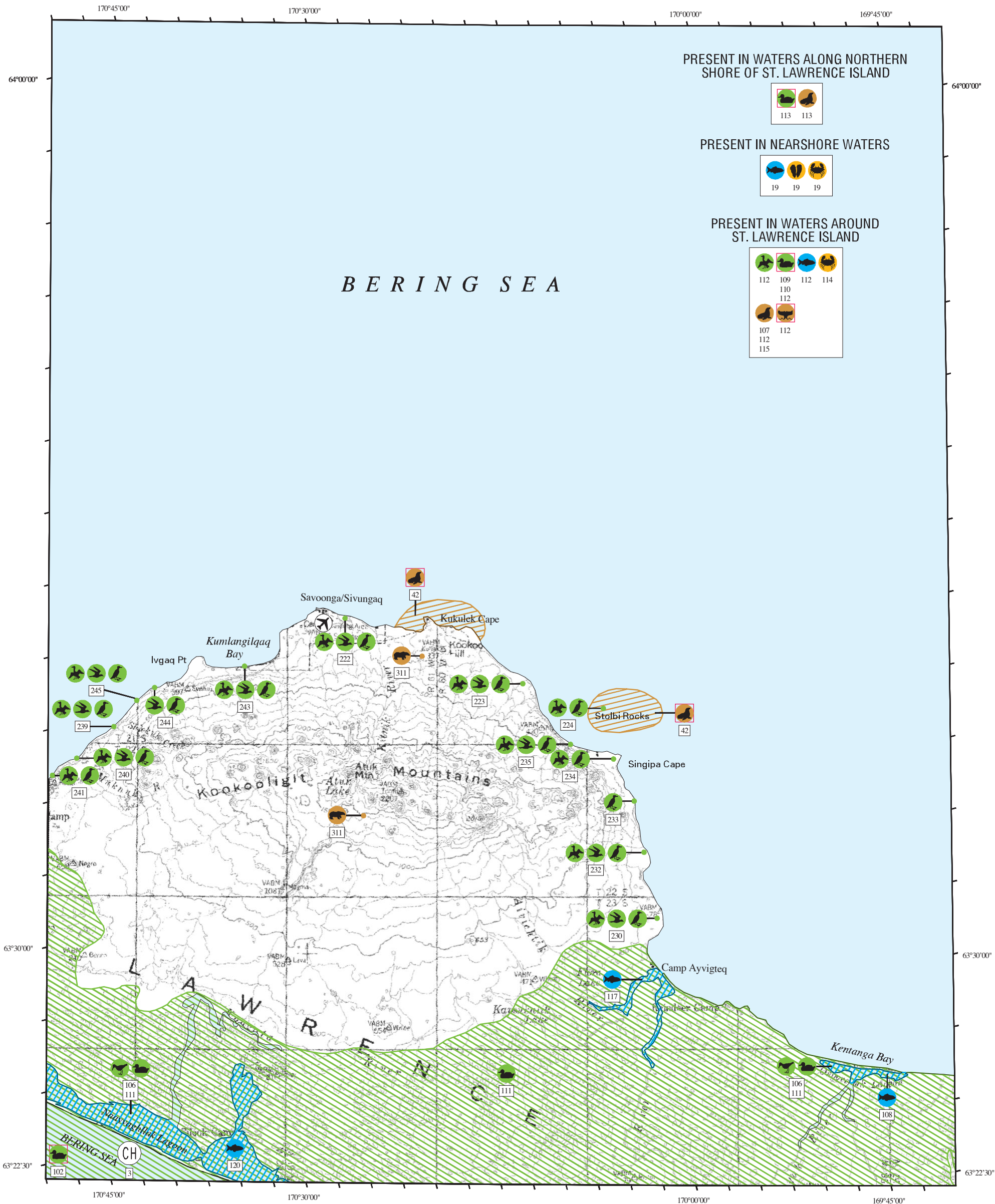
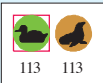


ENVIRONMENTAL SENSITIVITY INDEX MAP



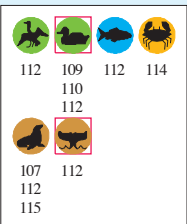
PRESENT IN WATERS ALONG NORTHERN SHORE OF ST. LAWRENCE ISLAND



PRESENT IN NEARSHORE WATERS

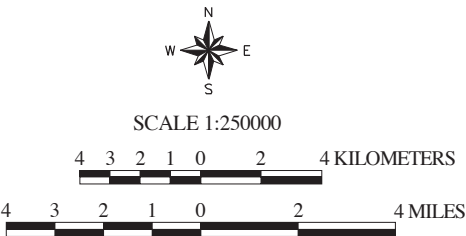


PRESENT IN WATERS AROUND ST. LAWRENCE ISLAND



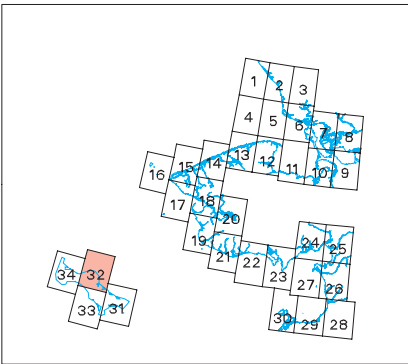
SHORELINE HABITATS (ESI)

- 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



Not For Navigation
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Office of Response and Restoration
Hazardous Materials Response Division



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
102	Spectacled eider	S/F	C/T	363030	X	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	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				-	-	-
222	Black-legged kittiwake			387			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			168			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			128208			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			4			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			2			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			155			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			17814			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			151			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			8			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			402			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			733			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			104			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
223	Black-legged kittiwake			3249			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			7317			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			194550			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			10			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			441			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			606060			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			483			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			18			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			723			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			10917			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			286			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
224	Black-legged kittiwake			168			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			8564			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			20			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			2433			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
230	Black-legged kittiwake			2537			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			1435			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			35412			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			4			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			236			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			29928			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			151			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			62			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			324			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			4311			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			210			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
232	Black-legged kittiwake			4331			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			8648			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			10			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			4			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			82			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			30			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			119			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			26			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			210			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			2979			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			19			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
233	Crested auklet			234			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			17			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			3108			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			46			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			64			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			6			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT

NW ARCTIC, AK - ESIMAP 32 (cont.)

BIOLOGICAL RESOURCES: (cont.)

BIRD: (cont.)

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Pre-nest	Nesting	Post-nest
234	Black-legged kittiwake			123				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Common murre			33				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Crested auklet			85542				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Dovekie			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			28				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Least auklet			335868				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Parakeet auklet			64				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			24				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			79				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Thick-billed murre			287				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			70				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
235	Crested auklet			10710				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Herring gull			24				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			142				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Least auklet			28350				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Parakeet auklet			320				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			14				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			56				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			43				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
239	Herring gull			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			81				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			16				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			22				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Thick-billed murre			162				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			20				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
240	Black-legged kittiwake			1850				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Common murre			19403				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Glaucous gull			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			92				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Parakeet auklet			9				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			44				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			35				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Thick-billed murre			14568				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			23				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
241	Black-legged kittiwake			2218				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Common murre			2920				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			35				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			44				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Thick-billed murre			3958				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			5				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
243	Herring gull			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			3				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Parakeet auklet			78				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			4				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			56				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			3				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
244	Black-legged kittiwake			463				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Common murre			246				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Herring gull			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			35				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Parakeet auklet			9				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			40				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Thick-billed murre			986				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			8				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
245	Black-legged kittiwake			3184				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Common murre			2507				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Glaucous gull			4				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Herring gull			6				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Horned puffin			43				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Parakeet auklet			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pelagic cormorant			12				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Pigeon guillemot			26				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Thick-billed murre			5182				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -
	Tufted puffin			30				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT -

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					-	-	-	-	JUL-OCT
117	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC
	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

NW ARCTIC, AK - ESIMAP 32 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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
42	Steller (Northern) sea lion	S/F	C/E							X	X	X	X	X	X	X	-	-	JUN-JUL	JUL-NOV
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	X	-	-	-	-
	Bowhead whale	S/F	C/E				X	X									-	-	-	-
	Fin whale	F	E						X	X	X	X	X	X	X	X	-	-	-	-
	Gray whale								X	X	X	X	X	X	X	X	-	-	-	-
	Killer whale								X	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	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	-

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.