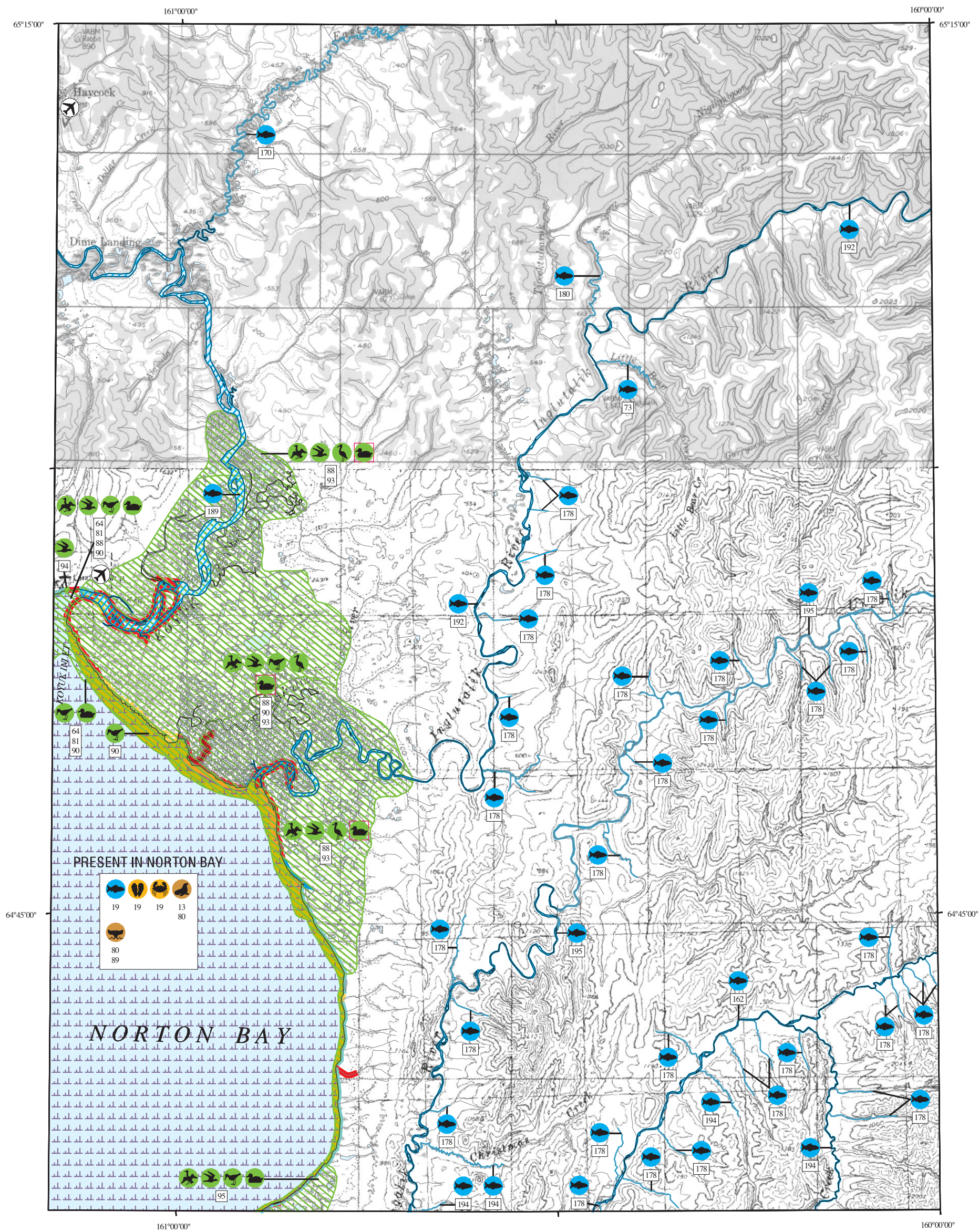

















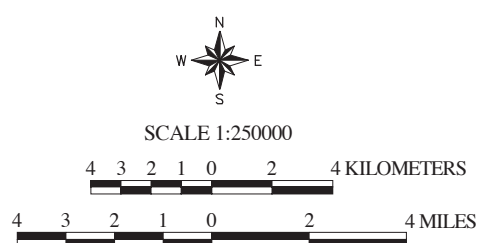


ENVIRONMENTAL SENSITIVITY INDEX MAP



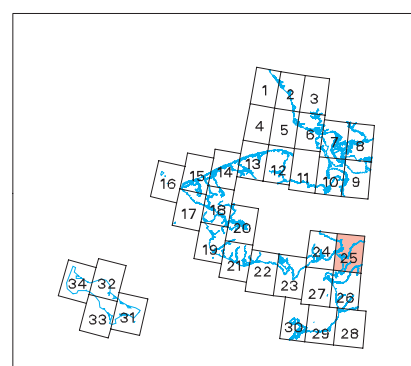
SHORELINE HABITATS (ESI)

- | | |
|---|--|
|  | 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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NW ARCTIC, AK - ESIMAP 25

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	
64	Canada goose			1000s								X	X				-	-	AUG-SEP	-
81	Common eider			HIGH									X	X			-	-	SEP-OCT	-
88	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	-
	Common eider						X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-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					MAY-MAY	MAY-AUG	JUN-SEP	-
	Pacific loon							X	X	X	X	X					MAY-JUN	MAY-SEP	AUG-SEP	-
	Red-breasted merganser							X	X	X	X	X	X				MAY-JUN	JUN-OCT	JUL-OCT	-
	Red-throated loon							X	X	X	X	X					MAY-JUN	MAY-AUG	AUG-SEP	-
90	American golden-plover			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	American golden-plover			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Bar-tailed godwit			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Bar-tailed godwit			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Dunlin			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Dunlin			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Hudsonian godwit			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Hudsonian godwit			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Long-billed dowitcher			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Long-billed dowitcher			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Red-necked phalarope			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Red-necked phalarope			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Semipalmated sandpiper			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Semipalmated sandpiper			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Western sandpiper			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Western sandpiper			10000s					X	X	X	X	X				-	-	JUN-OCT	-
	Whimbrel			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Whimbrel			10000s					X	X	X	X	X				-	-	JUN-OCT	-
93	Brant			1650 NESTS/ KM2					X	X	X	X	X				-	MAY-SEP	-	-
	Brant			3000					X	X	X						MAY-JUL	-	-	-
	Emperor goose			27 NESTS/ KM2					X	X	X	X	X				-	MAY-SEP	-	-
	Sandhill crane			18000									X	X			-	-	AUG-SEP	-
	Sandhill crane			6000				X	X								APR-MAY	-	-	-
	Sandhill crane			75 NESTS					X	X	X						-	MAY-JUL	-	-
	Snow goose			5000						X	X						-	-	-	-
	Spectacled eider	S/F	C/T	6.8NESTS/ KM2						X	X	X					-	JUN-AUG	-	-
	Tundra swan			500					X	X							MAY-JUN	-	-	-
94	Aleutian tern			200				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
95	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	-
	Common eider								X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	Dunlin			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Dunlin			10000s						X	X	X	X				-	-	JUN-SEP	-
	Greater scaup								X	X	X	X	X				MAY-JUN	MAY-SEP	JUN-SEP	-
	Long-tailed duck						X	X	X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP	-
	Northern pintail							X	X	X	X	X					MAY-MAY	MAY-AUG	JUN-SEP	-
	Pacific loon							X	X	X	X	X					MAY-JUN	MAY-SEP	AUG-SEP	-
	Red-breasted merganser							X	X	X	X	X	X				MAY-JUN	JUN-OCT	JUL-OCT	-
	Red-necked phalarope			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Red-necked phalarope			10000s						X	X	X	X	X			-	-	JUN-OCT	-
	Red-throated loon								X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
	Semipalmated sandpiper			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Semipalmated sandpiper			10000s						X	X	X	X	X			-	-	JUN-OCT	-
	Western sandpiper			1000s					X	X							MAY-JUN	MAY-JUN	-	-
	Western sandpiper			10000s						X	X	X	X	X			-	-	JUN-OCT	-
	Yellow-billed loon								X	X	X	X	X	X			MAY-JUN	JUN-OCT	SEP-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
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
162	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
170	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
178	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUL	JAN-DEC	JUL-AUG
180	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
	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
189	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
	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

NW ARCTIC, AK - ESIMAP 25 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
192	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	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
194	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUL	JAN-DEC	JUL-AUG
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC
195	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	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

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
13	Ringed seal				X	X	X	X	X	X				X	X	X	-	-	MAR-MAY	MAR-JUN
80	Bearded seal				X	X	X	X	X	X					X	X	-	-	-	-
	Gray whale								X	X	X	X	X	X	X	X	-	-	-	-
	Spotted seal									X	X	X	X	X	X	X	-	-	-	-
	Walrus			HIGH					X	X							-	-	-	-
89	Beluga whale			HIGH					X	X							-	-	-	-

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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.