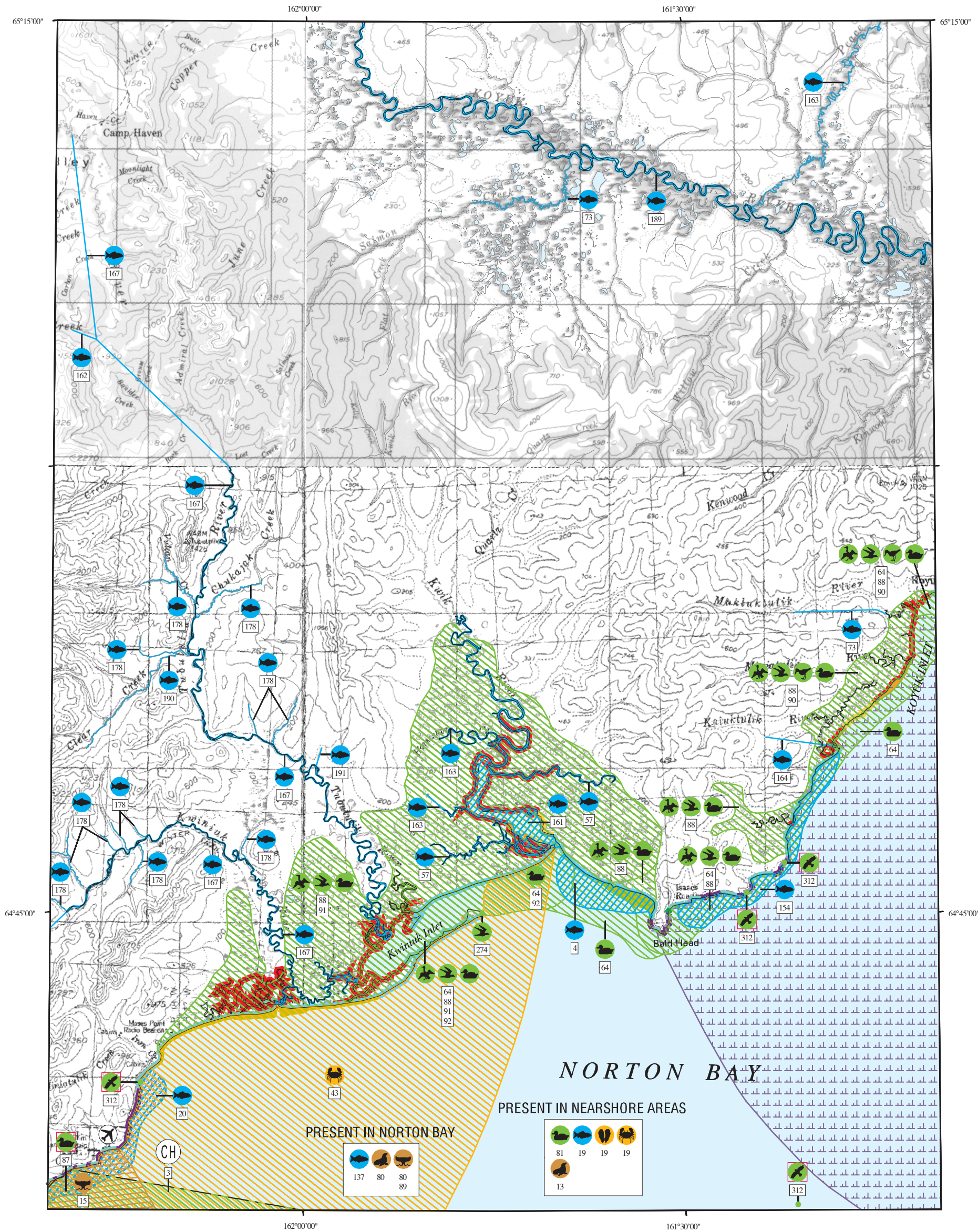

















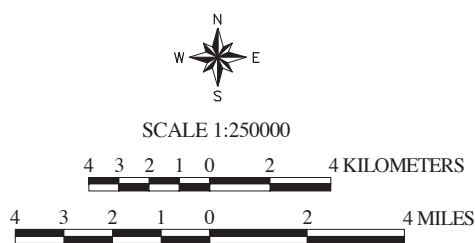


ENVIRONMENTAL SENSITIVITY INDEX MAP



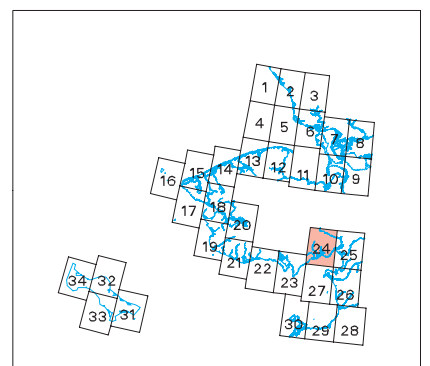
SHORELINE HABITATS (ESD)

- | | |
|---|--|
|  | 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 24

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	-
87	Spectacled eider	S/F	C/T	4030								X	X	X			-	-	-	-
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	-
91	Brant							X	X	X							MAY-JUL	-	-	-
92	American wigeon			1000s								X	X				-	-	AUG-SEP	-
	Greater scaup			100s					X	X	X	X					-	-	JUN-SEP	-
274	Aleutian tern			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
312	American peregrine falcon	S	C				X	X	X	X	X	X					-	APR-SEP	-	-

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
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
57	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	SEP-OCT	SEP-DEC	DEC-JUN	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
137	Pacific halibut										X	X	X	X			-	-	-	-	JUL-OCT
154	Pacific herring							X	X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
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
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
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
	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
190	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
	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
191	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
	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

NW ARCTIC, AK - ESIMAP 24 (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	X	-	-	-	-	-
	Softshell clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
43	Red king crab			HIGH	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
13	Ringed seal				X	X	X	X	X	X				X	X	X	-	-	MAR-MAY	MAR-JUN
15	Beluga whale									X	X	X	X	X			-	JUN-AUG	-	-
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							-	-	-	-

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.