

NW ARCTIC, AK - ESIMAP 1

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	
10	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	-
	Brant									X	X	X	X	X			MAY-JUL	MAY-SEP	AUG-SEP	-
	Common eider									X	X	X	X	X			MAY-JUN	JUN-JUL	JUL-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	-
	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	-
	Yellow-billed loon									X	X	X	X	X	X		MAY-JUN	JUN-OCT	SEP-OCT	-
11	Red phalarope			UNKNOWN						X	X	X					MAY-JUN	MAY-JUL	-	-
	Red phalarope			1000s							X	X	X				-	-	JUL-SEP	-
	Red-necked phalarope			UNKNOWN						X	X	X					MAY-JUN	MAY-JUL	-	-
	Red-necked phalarope			1000s							X	X	X				-	-	JUL-SEP	-
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-

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
18	Dolly varden								X	X	X	X	X	X			-	-	-	MAY-OCT	MAY-OCT
	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
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
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	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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X				X	X	X		-	-	-	-
	Gray whale							X	X	X	X	X	X	X			-	-	-	-
	Walrus							X	X				X	X			-	-	-	-
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	-	-
16	Beluga whale						X	X	X	X			X	X	X		-	-	-	-
	Ringed seal									X	X	X					-	-	-	-

TERRESTRIAL MAMMAL:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
17	Muskox			HIGH	X	X	X	X	X	X	X	X	X	X	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.

NW ARCTIC, AK - ESIMAP 2

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	
10	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	-
	Brant									X	X	X	X	X			MAY-JUL	MAY-SEP	AUG-SEP	-
	Common eider									X	X	X	X	X			MAY-JUN	JUN-JUL	JUL-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	-
	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	-
	Yellow-billed loon									X	X	X	X	X	X		MAY-JUN	JUN-OCT	SEP-OCT	-
11	Red phalarope			UNKNOWN						X	X	X					MAY-JUN	MAY-JUL	-	-
	Red phalarope			1000s							X	X	X				-	-	JUL-SEP	-
	Red-necked phalarope			UNKNOWN						X	X	X					MAY-JUN	MAY-JUL	-	-
	Red-necked phalarope			1000s							X	X	X				-	-	JUL-SEP	-
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
314	Arctic peregrine falcon	S	C				X	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
18	Dolly varden								X	X	X	X	X	X			-	-	-	MAY-OCT	MAY-OCT
	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
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
44	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
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
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
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
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
176	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
179	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
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

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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X			X	X	X			-	-	-	-
	Gray whale						X	X	X	X	X	X	X				-	-	-	-
	Walrus						X	X				X	X				-	-	-	-
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	-	-
16	Beluga whale					X	X	X	X			X	X	X			-	-	-	-
	Ringed seal							X	X	X							-	-	-	-

NW ARCTIC, AK - ESIMAP 2 (cont.)

BIOLOGICAL RESOURCES: (cont.)

TERRESTRIAL MAMMAL:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
17	Muskox			HIGH	X	X	X	X	X	X	X	X	X	X	X	X

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HUMAN USE RESOURCES:

MARINA:

HUN#	Name	Owner	Contact	Phone
6	RED DOG MINE PORT		JOHN KULES	907/426-9129

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
9	CAPE KRUSENSTERN NATIONAL MONUMENT		NATIONAL PARK SERVICE	907/442-3890

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NW ARCTIC, AK - ESIMAP 3

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	
314	Arctic 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
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
159	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
	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
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	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
170	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
176	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
177	Chum salmon (dog)				X	X	X	X	X		X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP
179	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
188	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC
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	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	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	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
198	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
	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
9	CAPE KRUSENSTERN NATIONAL MONUMENT		NATIONAL PARK SERVICE	907/442-3890
11	NOATAK NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/442-3890

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.

NW ARCTIC, AK - ESIMAP 4

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
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-

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
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
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E		X	X	X					X	X	X			-	-	-	-
	Gray whale							X	X	X	X	X	X	X			-	-	-	-
	Walrus							X	X				X	X			-	-	-	-
16	Beluga whale				X	X	X	X				X	X	X			-	-	-	-
	Ringed seal							X	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.

NW ARCTIC, AK - ESIMAP 5

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	
10	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	-
	Brant									X	X	X	X	X			MAY-JUL	MAY-SEP	AUG-SEP	-
	Common eider									X	X	X	X	X			MAY-JUN	JUN-JUL	JUL-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	-
	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	-
	Yellow-billed loon									X	X	X	X	X	X		MAY-JUN	JUN-OCT	SEP-OCT	-
11	Red phalarope			UNKNOWN						X	X	X					MAY-JUN	MAY-JUL	-	-
	Red phalarope			1000s								X	X	X			-	-	JUL-SEP	-
	Red-necked phalarope			UNKNOWN						X	X	X					MAY-JUN	MAY-JUL	-	-
	Red-necked phalarope			1000s								X	X	X			-	-	JUL-SEP	-
12	Common eider			1000s			X	X	X	X	X	X	X	X	X		-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X	X		-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X	X		-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X	X		-	-	-	-
	Spectacled eider		S/F	C/T	1000s		X	X	X	X	X	X	X	X	X		-	-	-	-
	Steller's eider		S/F	C/T	1000s		X	X	X	X	X	X	X	X	X		-	-	-	-
34	Red-throated loon									X	X	X	X	X			-	-	-	-
128	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	-
	Pectoral sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Pectoral sandpiper			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	-
	Ruddy turnstone			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Ruddy turnstone			10000s								X	X	X			-	-	JUL-SEP	-
	Semipalmated sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s								X	X	X			-	-	JUL-SEP	-
	Sharp-tailed sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Sharp-tailed sandpiper			10000s								X	X	X			-	-	JUL-SEP	-
	Western sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s								X	X	X			-	-	JUL-SEP	-
307	Arctic tern			100			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
308	Glaucous gull			30			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Mew gull			20			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
309	Aleutian tern			58			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Arctic tern			40			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			40			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
310	Aleutian tern			76			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Arctic tern			30			X	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	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
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	-	-	-	-	JAN-DEC
	Saffron cod					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	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC
129	Dolly varden									X	X	X	X	X			-	-	-	MAY-OCT	MAY-OCT
	Northern pike									X	X	X	X				-	-	-	-	JUN-OCT
	Pacific herring									X	X	X	X	X			MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
	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	-	-	-	JAN-DEC	JAN-DEC
164	Pink salmon (humpy)					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	-	-	-	-	-
	Butter clam					X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Crenulate astarte					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	-	-	-	-	-
	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	-	-	-	-	-
43	Red king crab			HIGH		X	X	X	X	X	X	X	X	X	X	X	FEB-APR	JAN-DEC	FEB-JUN	JAN-DEC	JAN-DEC

NW ARCTIC, AK - ESIMAP 5 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E			X	X	X				X	X	X			-	-	-	-
	Gray whale							X	X	X	X	X	X	X			-	-	-	-
	Walrus							X	X			X	X				-	-	-	-
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	-	-
16	Beluga whale					X	X	X	X			X	X	X			-	-	-	-
	Ringed seal							X	X	X							-	-	-	-
34	Bearded seal				X	X	X	X	X	X	X		X	X	X		-	-	-	-
	Walrus									X	X	X					-	-	-	-

TERRESTRIAL MAMMAL:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
17	Muskox			HIGH	X	X	X	X	X	X	X	X	X	X	X	X

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
9	CAPE KRUSENSTERN NATIONAL MONUMENT		NATIONAL PARK SERVICE	907/442-3890

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.

NW ARCTIC, AK - ESIMAP 6

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	
10	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	-
	Brant									X	X	X	X	X			MAY-JUL	MAY-SEP	AUG-SEP	-
	Common eider									X	X	X	X	X			MAY-JUN	JUN-JUL	JUL-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	-
	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	-
	Yellow-billed loon									X	X	X	X	X	X		MAY-JUN	JUN-OCT	SEP-OCT	-
34	Red-throated loon									X	X	X	X	X			-	-	-	-
128	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	-
	Pectoral sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Pectoral sandpiper			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	-
	Ruddy turnstone			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Ruddy turnstone			10000s							X	X	X				-	-	JUL-SEP	-
	Semipalmated sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Sharp-tailed sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Sharp-tailed sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Western sandpiper			1000s						X	X	X					MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
134	Dabbling ducks			VERY HIGH						X	X	X	X				-	-	-	-
	Diving ducks			HIGH						X	X	X	X				-	-	-	-
	Dunlin			1000s						X	X	X					MAY-JUN	JUN-JUL	-	-
	Dunlin			10000s							X	X	X				-	-	JUL-SEP	-
	Geese			HIGH						X	X	X	X				-	-	-	-
	Long-billed dowitcher			1000s						X	X	X					MAY-JUN	JUN-JUL	-	-
	Long-billed dowitcher			10000s							X	X	X				-	-	JUL-SEP	-
	Semipalmated sandpiper			1000s						X	X	X					MAY-JUN	JUN-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Tundra swan			VERY HIGH						X	X	X	X				-	-	-	-
	Western sandpiper			1000s						X	X	X					MAY-JUN	JUN-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
142	Arctic tern									X	X	X	X				MAY-JUN	MAY-AUG	JUL-AUG	-
	Greater scaup									X	X	X	X	X			MAY-JUN	MAY-SEP	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	-
	Yellow-billed loon									X	X	X	X	X	X		MAY-JUN	JUN-OCT	SEP-OCT	-
295	Aleutian tern			50						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
305	Aleutian tern			180						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
306	Aleutian tern			20						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Arctic tern			30						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	-	-

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
18	Dolly varden								X	X	X	X	X	X			-	-	-	MAY-OCT	MAY-OCT
	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
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					MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
32	Burbot								X	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
129	Dolly varden							X	X	X	X	X					-	-	-	MAY-OCT	MAY-OCT
	Northern pike								X	X	X	X	X				-	-	-	-	JUN-OCT
	Pacific herring							X	X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
	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
159	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
	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
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	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 6 (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	-	-	-	-	-
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
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					-	-	-	-

TERRESTRIAL MAMMAL:

RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
17	Muskox			HIGH	X	X	X	X	X	X	X	X	X	X	X	X

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HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
9	CAPE KRUSENSTERN NATIONAL MONUMENT		NATIONAL PARK SERVICE	907/442-3890
11	NOATAK NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/442-3890

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.

NW ARCTIC, AK - ESIMAP 7

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			-	-	-
30	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
	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-throated loon									X	X	X	X	X			MAY-JUN	MAY-AUG	AUG-SEP
34	Red-throated loon									X	X	X	X	X			-	-	-
134	Dabbling ducks			VERY HIGH						X	X	X	X				-	-	-
	Diving ducks			HIGH						X	X	X	X				-	-	-
	Dunlin			1000s					X	X	X						MAY-JUN	JUN-JUL	-
	Dunlin			10000s						X	X	X					-	-	JUL-SEP
	Geese			HIGH						X	X	X	X				-	-	-
	Long-billed dowitcher			1000s					X	X	X						MAY-JUN	JUN-JUL	-
	Long-billed dowitcher			10000s						X	X	X					-	-	JUL-SEP
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	JUN-JUL	-
	Semipalmated sandpiper			10000s						X	X	X					-	-	JUL-SEP
	Tundra swan			VERY HIGH						X	X	X	X				-	-	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	JUN-JUL	-
	Western sandpiper			10000s						X	X	X					-	-	JUL-SEP
141	Tundra swan			HIGH										X			-	-	-
142	Arctic tern									X	X	X	X				MAY-JUN	MAY-AUG	JUL-AUG
	Greater scaup									X	X	X	X	X			MAY-JUN	MAY-SEP	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
	Yellow-billed loon									X	X	X	X	X	X		MAY-JUN	JUN-OCT	SEP-OCT
143	Dabbling ducks			VERY HIGH						X	X	X	X	X			-	-	-

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					MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
32	Burbot									X	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
139	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
	Northern pike									X	X	X	X	X			-	-	-	-	JUN-OCT
	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
158	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
	Sheefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
159	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
	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
160	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
	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
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
179	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

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	-	-	-	-	-

NW ARCTIC, AK - ESIMAP 7 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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		-	-	-	-
34	Bearded seal				X	X	X	X	X	X	X			X	X	X	-	-	-	-
	Walrus									X	X	X					-	-	-	-

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
11	NOATAK NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/442-3890

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
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.

NW ARCTIC, AK - ESIMAP 8

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	
30	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	-
	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-throated loon									X	X	X	X	X			MAY-JUN	MAY-AUG	AUG-SEP	-
149	Geese			VERY HIGH						X	X	X	X	X			-	-	-	-
	Loons			HIGH						X	X	X	X	X			-	-	-	-
	Scoters			VERY HIGH						X	X	X	X	X			-	-	-	-
	Tundra swan			VERY HIGH						X	X	X	X	X			-	-	-	-

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
32	Burbot									X	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	-	-	-	JAN-DEC	NOV-APR	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
159	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
	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
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
165	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
179	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
193	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
	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
14	Spotted seal									X	X	X	X	X	X		-	-	-	-

HUMAN USE RESOURCES:

NATIONAL PARK:			
HUN#	Name	Owner	Phone
10	KOBUK VALLEY NATIONAL PARK		907/442-3890

WILDLIFE REFUGE:			
HUN#	Name	Owner	Phone
14	SELAWIK NATIONAL WILDLIFE REFUGE		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.

NW ARCTIC, AK - ESIMAP 9

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
27	Surf scoter			HIGH						X	X	X	X	X			-	-	-
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		MAY-JUN	JUN-SEP	JUN-OCT
	Canada goose			1000s									X	X			-	-	AUG-SEP
	Common eider									X	X	X	X	X			MAY-JUN	JUN-JUL	JUL-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
	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			HIGH						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
	Sandhill crane			HIGH						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		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			MAY-MAY	MAY-AUG	JUN-SEP
	Pacific loon									X	X	X	X	X			MAY-JUN	MAY-SEP	AUG-SEP
	Red-throated loon									X	X	X	X	X			MAY-JUN	MAY-AUG	AUG-SEP
149	Geese			VERY HIGH						X	X	X	X	X			-	-	-
	Loons			HIGH						X	X	X	X	X			-	-	-
	Scoters			VERY HIGH						X	X	X	X	X			-	-	-
	Tundra swan			VERY HIGH						X	X	X	X	X			-	-	-
157	Arctic tern			50 PAIRS						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
3	Pacific herring				X	X	X	X								X	X	-	-	-	NOV-APR
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
32	Burbot									X	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
165	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
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	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	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		-	-	-	-
14	Spotted seal									X	X	X	X	X	X		-	-	-	-
127	Beluga whale			VERY HIGH						X	X	X					-	JUN-AUG	-	-

HUMAN USE RESOURCES:

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
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.

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						MAY-JUN	JUN-JUL	JUL-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	-
	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			HIGH			X	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	-
	Sandhill crane			HIGH	X	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							MAY-MAY	MAY-AUG	JUN-SEP	-
	Pacific loon					X	X	X	X	X							MAY-JUN	MAY-SEP	AUG-SEP	-
	Red-throated loon					X	X	X	X	X							MAY-JUN	MAY-AUG	AUG-SEP	-
31	Greater scaup						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							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							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						MAY-JUN	JUN-JUL	JUL-SEP	-
	Greater scaup						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							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							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	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				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				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	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	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	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	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	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.

NW ARCTIC, AK - ESIMAP 11

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
34	Red-throated loon									X	X	X	X	X			-	-	-
287	Black-legged kittiwake			1000				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre			1600				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			70				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			1400				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
288	Black-legged kittiwake			702				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre			3250				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			50				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			400				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			6				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			3250				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
289	Black-legged kittiwake			1864				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			14				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			20				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Murre			1700				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
290	Glaucous gull			14				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
314	Arctic 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
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
44	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
163	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
	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	-	-	-	-	-
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	
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	X	-	-	-	-
	Walrus										X	X	X					-	-	-	-

HUMAN USE RESOURCES:

NATIONAL PARK:														
HUN#	Name	Owner					Contact					Phone		
8	BERING LAND BRIDGE NATIONAL PRESERVE						NATIONAL PARK SERVICE					907/443-2522		

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.

NW ARCTIC, AK - ESIMAP 12

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	
12	Common eider			1000s			X	X	X	X	X	X	X				-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X				-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X				-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X				-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X				-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X				-	-	-	-
34	Red-throated loon								X	X	X	X					-	-	-	-
48	Common eider			100s					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	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	-
	Long-tailed duck			HIGH			X	X	X	X	X	X					APR-JUN	MAY-AUG	JUN-SEP	-
	Pectoral sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Pectoral sandpiper			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	-
	Red-throated loon			100s					X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
	Ruddy turnstone			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Ruddy turnstone			10000s								X	X	X			-	-	JUL-SEP	-
	Sandhill crane			HIGH			X	X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
49	American wigeon			1000s								X	X				-	-	AUG-SEP	-
	Brant			800					X	X	X	X	X				MAY-JUL	MAY-SEP	-	-
	Brant			2000								X	X				-	-	AUG-SEP	-
	Canada goose			1000s								X	X				-	-	AUG-SEP	-
	Common eider			800					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	Greater scaup			1000s							X	X	X	X			-	-	JUN-SEP	-
	Greater white-fronted goose			FEW					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	Sandhill crane			HIGH			X	X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
	Snow goose			FEW			X	X		X	X	X	X				MAY-JUN	-	AUG-OCT	-
	Tundra swan			10s					X								-	-	-	-
51	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	-
	Emperor goose								X	X	X	X	X				MAY-MAY	MAY-SEP	AUG-SEP	-
	Green-winged teal								X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Northern pintail			VERY HIGH					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	-
	Yellow-billed loon								X	X	X	X	X	X			MAY-JUN	JUN-OCT	SEP-OCT	-
286	Arctic tern			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			100			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
292	Arctic tern			20			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Common eider			150			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			250			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
293	Common eider			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			800			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
294	Arctic tern			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			1000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Mew gull			UNKNOWN			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
50	Arctic char				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUL	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	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
6	Spotted seal			HIGH						X	X	X	X	X	X		-	-	-	-
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal								X	X	X						-	-	-	-
	Bowhead whale	S/F	C/E					X	X	X			X	X	X		-	-	-	-
	Gray whale								X	X	X	X	X	X			-	-	-	-
	Walrus								X	X				X	X		-	-	-	-
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					-	-	-	-

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NW ARCTIC, AK - ESIMAP 12 (cont.)

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
8	BERING LAND BRIDGE NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/443-2522

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.

NW ARCTIC, AK - ESIMAP 13

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	
12	Common eider			1000s		X	X	X	X	X	X	X	X				-	-	-	-
	King eider			1000s		X	X	X	X	X	X	X	X				-	-	-	-
	Long-tailed duck			1000s		X	X	X	X	X	X	X	X				-	-	-	-
	Red-throated loon			HIGH		X	X	X	X	X	X	X	X				-	-	-	-
	Spectacled eider	S/F	C/T	1000s		X	X	X	X	X	X	X	X				-	-	-	-
	Steller's eider	S/F	C/T	1000s		X	X	X	X	X	X	X	X				-	-	-	-
51	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	-
	Emperor goose						X	X	X	X	X						MAY-MAY	MAY-SEP	AUG-SEP	-
	Green-winged teal						X	X	X	X	X						MAY-MAY	MAY-AUG	JUN-SEP	-
	Northern pintail			VERY HIGH			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	-
	Yellow-billed loon						X	X	X	X	X	X					MAY-JUN	JUN-OCT	SEP-OCT	-
52	American golden-plover			1000s			X	X	X								MAY-JUN	MAY-JUL	-	-
	American golden-plover			10000s						X	X	X					-	-	JUL-SEP	-
	Brant			15000							X	X					-	-	AUG-SEP	-
	Common eider			HIGH			X	X	X	X	X						MAY-JUN	JUN-JUL	JUL-SEP	-
	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	-
	Pectoral sandpiper			1000s			X	X	X								MAY-JUN	MAY-JUL	-	-
	Pectoral sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
	Pomarine jaeger			HIGH						X	X						-	-	-	-
	Sandhill crane			HIGH		X	X	X	X	X	X	X					APR-MAY	MAY-JUL	AUG-SEP	-
	Seabirds			HIGH		X	X	X	X	X	X	X					-	-	-	-
	Semipalmated sandpiper			1000s			X	X	X								MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
	Western sandpiper			1000s			X	X	X								MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
53	Long-tailed duck			VERY HIGH						X	X						-	-	-	-
	Tundra swan			100s						X							-	-	-	-
54	Greater scaup			100s				X	X	X	X	X					MAY-JUN	MAY-SEP	JUN-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				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
52	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
55	Capelin									X	X	X					JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
56	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
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
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

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		-	-	-	-	-
	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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X			X	X	X			-	-	-	-
	Gray whale						X	X	X	X	X	X	X				-	-	-	-
	Walrus						X	X				X	X				-	-	-	-
13	Ringed seal				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	-	-
16	Beluga whale					X	X	X	X			X	X	X			-	-	-	-
	Ringed seal						X	X	X								-	-	-	-
52	Bearded seal			HIGH						X	X	X	X				-	-	-	-
	Spotted seal			HIGH						X	X	X	X				-	-	-	-

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NW ARCTIC, AK - ESIMAP 13 (cont.)

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
8	BERING LAND BRIDGE NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/443-2522

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.

NW ARCTIC, AK - ESIMAP 14

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	
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
51	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	-
	Emperor goose								X	X	X	X	X				MAY-MAY	MAY-SEP	AUG-SEP	-
	Green-winged teal								X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Northern pintail			VERY HIGH					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	-
	Yellow-billed loon								X	X	X	X	X	X			MAY-JUN	JUN-OCT	SEP-OCT	-
52	American golden-plover			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	American golden-plover			10000s							X	X	X				-	-	JUL-SEP	-
	Brant			15000								X	X				-	-	AUG-SEP	-
	Common eider			HIGH					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	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	-
	Pectoral sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Pectoral sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Pomarine jaeger			HIGH						X	X						-	-	-	-
	Sandhill crane			HIGH			X	X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
	Seabirds			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
285	Aleutian tern			6			X	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
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
52	Rainbow smelt											X	X	X			-	-	-	-	SEP-NOV
	Saffron cod											X	X	X			-	-	-	-	SEP-NOV
55	Capelin							X	X	X							JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
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
58	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	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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X				X	X	X		-	-	-	-
	Gray whale							X	X	X	X	X	X	X			-	-	-	-
	Walrus							X	X				X	X			-	-	-	-
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	-	-
16	Beluga whale						X	X	X	X			X	X	X		-	-	-	-
	Ringed seal								X	X	X						-	-	-	-
52	Bearded seal			HIGH								X	X	X	X		-	-	-	-
	Spotted seal			HIGH								X	X	X	X		-	-	-	-

HUMAN USE RESOURCES:

NATIONAL PARK:														
HUN#	Name	Owner					Contact					Phone		
8	BERING LAND BRIDGE NATIONAL PRESERVE						NATIONAL PARK SERVICE					907/443-2522		

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.

NW ARCTIC, AK - ESIMAP 15

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	
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
51	Arctic tern								X	X	X						MAY-JUN	MAY-AUG	JUL-AUG	-
	Black scoter								X	X	X	X	X	X			MAY-JUN	JUN-SEP	JUN-OCT	-
	Emperor goose								X	X	X	X	X				MAY-MAY	MAY-SEP	AUG-SEP	-
	Green-winged teal								X	X	X	X	X				MAY-MAY	MAY-AUG	JUN-SEP	-
	Northern pintail			VERY HIGH					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	-
	Yellow-billed loon								X	X	X	X	X	X			MAY-JUN	JUN-OCT	SEP-OCT	-
52	American golden-plover			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	American golden-plover			10000s							X	X	X				-	-	JUL-SEP	-
	Brant			15000								X	X				-	-	AUG-SEP	-
	Common eider			HIGH					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	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	-
	Pectoral sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Pectoral sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Pomarine jaeger			HIGH							X	X					-	-	-	-
	Sandhill crane			HIGH			X	X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
	Seabirds			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
59	American golden-plover			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	American golden-plover			10000s							X	X	X				-	-	JUL-SEP	-
	Brant			1000s								X	X				-	-	AUG-SEP	-
	Common eider			HIGH					X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	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	-
	Long-tailed duck			VERY HIGH			X	X	X	X	X	X	X	X			APR-JUN	MAY-AUG	JUN-SEP	-
	Red-necked phalarope			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Red-necked phalarope			10000s							X	X	X				-	-	JUL-SEP	-
	Red-throated loon			10s					X	X	X	X	X				MAY-JUN	MAY-AUG	AUG-SEP	-
	Sandhill crane			HIGH			X	X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
	Seabirds			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
284	Aleutian tern			3			X	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
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
52	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
58	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
59	Rainbow smelt											X	X	X			-	-	-	-	SEP-NOV
	Saffron cod											X	X	X			-	-	-	-	SEP-NOV
60	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
	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	-	-	-	-	-

NW ARCTIC, AK - ESIMAP 15 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X			X	X	X			-	-	-	-
	Gray whale								X	X	X	X	X	X			-	-	-	-
	Walrus								X	X			X	X			-	-	-	-
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	-	-
16	Beluga whale					X	X	X	X			X	X	X			-	-	-	-
	Ringed seal								X	X	X						-	-	-	-
52	Bearded seal			HIGH							X	X	X	X			-	-	-	-
	Spotted seal			HIGH							X	X	X	X			-	-	-	-
59	Bearded seal			HIGH							X	X	X	X			-	-	-	-
	Spotted seal			HIGH							X	X	X	X			-	-	-	-
311	Polar bear				X	X	X	X	X					X	X	X	-	-	OCT-MAY	-

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
8	BERING LAND BRIDGE NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/443-2522

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.

NW ARCTIC, AK - ESIMAP 16

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
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-
282	Black-legged kittiwake			2610			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
	Crested auklet			10000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			1237			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			34			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			15000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Murre			4470			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			500			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			2			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			1237			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
283	Black guillemot			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Black-legged kittiwake			64554			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
	Crested auklet			219000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Dovekie			50			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			187			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			2393			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			207000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Murre			29485			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			20000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			126			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			95			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			433			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT

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
133	Blue 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
12	Bearded seal								X	X	X						-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X				X	X	X		-	-	-	-
	Gray whale								X	X	X	X	X	X			-	-	-	-
	Walrus								X	X			X	X			-	-	-	-
16	Beluga whale						X	X	X				X	X	X		-	-	-	-
	Ringed seal								X	X	X						-	-	-	-
24	Walrus								X	X			X	X			-	-	-	-
311	Polar bear				X	X	X	X	X					X	X	X	-	-	OCT-MAY	-

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.

NW ARCTIC, AK - ESIMAP 17

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
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-
276	Black-legged kittiwake			4000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			45000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			22000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			90			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			4700			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			80000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			42000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			120			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			700			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			45000			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			2300			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
279	Cormorant			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
280	Cormorant			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
281	Black-legged kittiwake			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			UNKNOWN			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
312	American peregrine falcon	S	C				X	X	X	X	X	X					-	APR-SEP	-
314	Arctic 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
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
58	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		-	-	-	-	-
	Softshell clam				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
133	Blue 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
8	Polar bear				X	X	X	X							X	X	-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E				X	X	X				X	X	X		-	-	-	-
	Gray whale							X	X	X	X	X	X	X			-	-	-	-
	Walrus							X	X			X	X				-	-	-	-
13	Ringed seal				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	-	-
16	Beluga whale						X	X	X	X			X	X	X		-	-	-	-
	Ringed seal							X	X	X							-	-	-	-
24	Walrus							X	X				X	X			-	-	-	-
311	Polar bear				X	X	X	X	X					X	X	X	-	-	OCT-MAY	-

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.

NW ARCTIC, AK - ESIMAP 18

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	
12	Common eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X	X			-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X	X			-	-	-	-
62	Long-tailed duck			HIGH				X	X	X	X	X	X				APR-JUN	MAY-AUG	JUN-SEP	-
	Snow goose			HIGH				X	X								-	-	-	-
63	Dunlin			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Dunlin			1000s						X	X	X					-	-	JUL-SEP	-
	Long-billed dowitcher			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Long-billed dowitcher			1000s						X	X	X					-	-	JUL-SEP	-
	Red-necked phalarope			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Red-necked phalarope			1000s						X	X	X					-	-	JUL-SEP	-
	Semipalmated sandpiper			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Semipalmated sandpiper			1000s						X	X	X					-	-	JUL-SEP	-
	Western sandpiper			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Western sandpiper			1000s						X	X	X					-	-	JUL-SEP	-
64	Canada goose			1000s								X	X				-	-	AUG-SEP	-
65	American wigeon			1000s								X	X				-	-	AUG-SEP	-
	Sandhill crane			1000s			X	X	X	X	X	X	X	X			APR-MAY	MAY-JUL	AUG-SEP	-
66	Seabirds			VERY HIGH			X										-	-	-	-
	Waterfowl			VERY HIGH			X										-	-	-	-
67	Brant						X	X	X								MAY-JUL	-	-	-
	Greater scaup						X	X	X	X	X	X					MAY-JUN	MAY-SEP	JUN-SEP	-
	Long-tailed duck			HIGH			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	-
	Red-breasted merganser						X	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	-
68	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	-
	Brant						X	X	X								MAY-JUL	-	-	-
	Common eider						X	X	X	X	X						MAY-JUN	JUN-JUL	JUL-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	-
	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	X				MAY-JUN	JUN-OCT	JUL-OCT	-
	Red-throated loon						X	X	X	X	X						MAY-JUN	MAY-AUG	AUG-SEP	-
	Yellow-billed loon						X	X	X	X	X	X					MAY-JUN	JUN-OCT	SEP-OCT	-
278	Glaucous gull			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			100			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			100			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Pigeon guillemot			20			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
3	Pacific herring				X	X	X	X							X	X	-	-	-	NOV-APR	NOV-APR
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
44	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
55	Capelin									X	X	X					JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
58	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
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
132	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
161	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
	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
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
170	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
174	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
176	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC

HABITAT:																
RAR#	Species	S/F	T/E	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
9	Eelgrass				X	X	X	X	X	X	X	X	X	X	X	X

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	-	-	-	-	-

NW ARCTIC, AK - ESIMAP 18 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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		-	-	-	-
12	Bearded seal						X	X	X								-	-	-	-
	Bowhead whale	S/F	C/E		X	X	X					X	X	X			-	-	-	-
	Gray whale						X	X	X	X	X	X	X				-	-	-	-
	Walrus						X	X				X	X				-	-	-	-
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	-	-

HUMAN USE RESOURCES:

NATIONAL PARK:

HUN#	Name	Owner	Contact	Phone
8	BERING LAND BRIDGE NATIONAL PRESERVE		NATIONAL PARK SERVICE	907/443-2522

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.

NW ARCTIC, AK - ESIMAP 19

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	
12	Common eider			1000s			X	X	X	X	X	X	X				-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X				-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X				-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X				-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X				-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X				-	-	-	-
63	Dunlin			UNKNOWN					X	X	X						MAY-JUN	JUN-JUL	-	-
	Dunlin			1000s							X	X	X				-	-	JUL-SEP	-
	Long-billed dowitcher			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Long-billed dowitcher			1000s							X	X	X				-	-	JUL-SEP	-
	Red-necked phalarope			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Red-necked phalarope			1000s							X	X	X				-	-	JUL-SEP	-
	Semipalmated sandpiper			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Semipalmated sandpiper			1000s							X	X	X				-	-	JUL-SEP	-
	Western sandpiper			UNKNOWN				X	X	X							MAY-JUN	JUN-JUL	-	-
	Western sandpiper			1000s							X	X	X				-	-	JUL-SEP	-
64	Canada goose			1000s								X	X				-	-	AUG-SEP	-
68	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	-
	Brant							X	X	X							MAY-JUL	-	-	-
	Common eider							X	X	X	X	X					MAY-JUN	JUN-JUL	JUL-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	-
	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	-
	Yellow-billed loon							X	X	X	X	X	X				MAY-JUN	JUN-OCT	SEP-OCT	-
70	Black-bellied plover			UNKNOWN				X	X	X							MAY-JUN	MAY-JUL	-	-
	Black-bellied plover			1000s							X	X	X				-	-	JUL-SEP	-
	Brant							X	X	X							MAY-JUL	-	-	-
	Dunlin			UNKNOWN				X	X	X							MAY-JUN	MAY-JUL	-	-
	Dunlin			1000s							X	X	X				-	-	JUL-SEP	-
	Semipalmated sandpiper			UNKNOWN				X	X	X							MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			1000s							X	X	X				-	-	JUL-SEP	-
	Snow goose			100s									X	X			-	-	-	-
	Western sandpiper			UNKNOWN				X	X	X							MAY-JUN	MAY-JUL	-	-
	Western sandpiper			1000s							X	X	X				-	-	JUL-SEP	-
256	Black-legged kittiwake			1300			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Common eider			4			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			2540			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			12			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			160			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Parakeet auklet			85			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			300			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Pigeon guillemot			4			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Thick-billed murre			360			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			13			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
257	Glaucous gull			160			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
277	Glaucous gull			70			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	-	-

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
44	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
55	Capelin									X	X	X					JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
71	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
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
132	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
137	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
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
168	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
169	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
172	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
	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
174	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
175	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
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-AUG	JAN-DEC	JUL-SEP
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
176	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
184	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

NW ARCTIC, AK - ESIMAP 19 (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	-	-	-	-	-
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
69	Blue 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
6	Spotted seal			HIGH						X	X	X	X	X	X		-	-	-	-
12	Bearded seal						X	X	X								-	-	-	-
	Bowhead whale	S/F	C/E		X	X	X					X	X	X			-	-	-	-
	Gray whale						X	X	X	X	X	X	X	X			-	-	-	-
	Walrus						X	X				X	X				-	-	-	-
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	-	-
16	Beluga whale				X	X	X	X				X	X	X			-	-	-	-
	Ringed seal						X	X	X								-	-	-	-
69	Walrus						X	X				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.

NW ARCTIC, AK - ESIMAP 20

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	
63	Dunlin			UNKNOWN						X	X	X					MAY-JUN	JUN-JUL	-	-
	Dunlin			1000s								X	X	X			-	-	JUL-SEP	-
	Long-billed dowitcher			UNKNOWN						X	X	X					MAY-JUN	JUN-JUL	-	-
	Long-billed dowitcher			1000s								X	X	X			-	-	JUL-SEP	-
	Red-necked phalarope			UNKNOWN						X	X	X					MAY-JUN	JUN-JUL	-	-
	Red-necked phalarope			1000s								X	X	X			-	-	JUL-SEP	-
	Semipalmated sandpiper			UNKNOWN						X	X	X					MAY-JUN	JUN-JUL	-	-
	Semipalmated sandpiper			1000s								X	X	X			-	-	JUL-SEP	-
	Western sandpiper			UNKNOWN						X	X	X					MAY-JUN	JUN-JUL	-	-
	Western sandpiper			1000s								X	X	X			-	-	JUL-SEP	-
65	American wigeon			1000s									X	X			-	-	AUG-SEP	-
	Sandhill crane			1000s						X	X	X	X	X	X		APR-MAY	MAY-JUL	AUG-SEP	-
74	Arctic tern									X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Black scoter			HIGH						X	X	X	X	X	X		MAY-JUN	JUN-SEP	JUN-OCT	-
	Canada goose			HIGH						X	X	X	X	X			MAY-MAY	MAY-AUG	JUL-SEP	-
	Greater scaup			VERY HIGH						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	-
	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 grebe			10s						X	X	X	X	X			MAY-MAY	MAY-SEP	AUG-SEP	-
	Red-throated loon			10s						X	X	X	X	X			MAY-JUN	MAY-AUG	AUG-SEP	-
	Sandhill crane			1000s						X	X	X	X	X	X		APR-MAY	MAY-JUL	AUG-SEP	-
	White-winged scoter			100s						X	X	X	X	X	X		MAY-JUN	JUN-JUL	JUL-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	
3	Pacific herring				X	X	X	X								X	X	-	-	-	NOV-APR	NOV-APR
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	
75	Arctic char				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUL	JAN-DEC	JAN-DEC	
76	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-AUG	JAN-DEC	JUL-SEP	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
132	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC	
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	
168	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	
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	
175	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	
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-AUG	JAN-DEC	JUL-SEP	
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
179	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	
181	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC	
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-AUG	JAN-DEC	JUL-SEP	
182	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	
183	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	

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	-	-	-	-	-

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.

NW ARCTIC, AK - ESIMAP 21

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	
12	Common eider			1000s			X	X	X	X	X	X	X				-	-	-	-
	King eider			1000s			X	X	X	X	X	X	X				-	-	-	-
	Long-tailed duck			1000s			X	X	X	X	X	X	X				-	-	-	-
	Red-throated loon			HIGH			X	X	X	X	X	X	X				-	-	-	-
	Spectacled eider	S/F	C/T	1000s			X	X	X	X	X	X	X				-	-	-	-
	Steller's eider	S/F	C/T	1000s			X	X	X	X	X	X	X				-	-	-	-
64	Canada goose			1000s							X	X					-	-	AUG-SEP	-
77	Aleutian tern						X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Arctic tern						X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
78	American wigeon			100s								X	X				-	-	AUG-SEP	-
	Brant								X	X	X						MAY-JUL	-	-	-
	Canada goose			1000s							X	X					-	-	AUG-SEP	-
	Common eider								X	X	X	X	X				MAY-JUN	JUN-JUL	JUL-SEP	-
	Dunlin			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Dunlin			10000s							X	X	X				-	-	JUL-SEP	-
	Greater scaup			10s						X	X	X	X				-	-	JUN-SEP	-
	Red-necked phalarope			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Red-necked phalarope			10000s						X	X	X					-	-	JUL-SEP	-
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
81	Common eider			HIGH									X	X			-	-	SEP-OCT	-
82	King eider			HIGH						X	X	X					-	-	-	-
83	Long-tailed duck			100s									X				-	-	-	-
267	Aleutian tern			UNKNOWN			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Arctic tern			10			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
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
44	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
55	Capelin									X	X	X					JUN-JUN	JUN-JUL	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
79	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
137	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
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
169	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

HABITAT:

[illegible]

NW ARCTIC, AK - ESIMAP 21 (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	-	-	-	-	-
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
6	Spotted seal			HIGH						X	X	X	X	X	X		-	-	-	-
12	Bearded seal							X	X	X							-	-	-	-
	Bowhead whale	S/F	C/E		X	X	X					X	X	X			-	-	-	-
	Gray whale							X	X	X	X	X	X	X			-	-	-	-
	Walrus							X	X				X	X			-	-	-	-
13	Ringed seal				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	-	-
16	Beluga whale						X	X	X	X			X	X	X		-	-	-	-
	Ringed seal							X	X	X							-	-	-	-
80	Bearded seal				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		-	-	-	-
	Walrus			HIGH				X	X								-	-	-	-

HUMAN USE RESOURCES:

MARINA:

HUN#	Name	Owner	Contact	Phone
5	NOME PORT			

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.

NW ARCTIC, AK - ESIMAP 22

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	-
78	American wigeon			100s								X	X				-	-	AUG-SEP	-
	Brant							X	X	X							MAY-JUL	-	-	-
	Canada goose			1000s								X	X				-	-	AUG-SEP	-
	Common eider							X	X	X	X	X					MAY-JUN	JUN-JUL	JUL-SEP	-
	Dunlin			1000s				X	X	X							MAY-JUN	MAY-JUL	-	-
	Dunlin			10000s						X	X	X					-	-	JUL-SEP	-
	Greater scaup			10s				X	X	X	X						-	-	JUN-SEP	-
	Red-necked phalarope			1000s				X	X	X							MAY-JUN	MAY-JUL	-	-
	Red-necked phalarope			10000s						X	X	X					-	-	JUL-SEP	-
	Semipalmated sandpiper			1000s				X	X	X							MAY-JUN	MAY-JUL	-	-
	Semipalmated sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
	Western sandpiper			1000s				X	X	X							MAY-JUN	MAY-JUL	-	-
	Western sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
81	Common eider			HIGH									X	X			-	-	SEP-OCT	-
82	King eider			HIGH						X	X	X					-	-	-	-
83	Long-tailed duck			100s									X				-	-	-	-
85	American wigeon			100s								X	X				-	-	AUG-SEP	-
	Brant			1000s				X	X	X							MAY-JUL	-	-	-
	Canada goose			1000s								X	X				-	-	AUG-SEP	-
	Dunlin			1000s				X	X	X							MAY-JUN	JUN-JUL	-	-
	Dunlin			10000s						X	X	X					-	-	JUL-SEP	-
	Greater scaup			1000s						X	X						-	-	-	-
	Sandhill crane			1000s				X	X	X							-	MAY-JUL	-	-
	Semipalmated sandpiper			1000s				X	X	X							MAY-JUN	JUN-JUL	-	-
	Semipalmated sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
	Tundra swan			1000s								X	X	X			-	-	-	-
	Western sandpiper			1000s				X	X	X							MAY-JUN	JUN-JUL	-	-
	Western sandpiper			10000s						X	X	X					-	-	JUL-SEP	-
86	Black scoter			100s									X	X			-	-	-	-
258	Aleutian tern			480			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Arctic tern			19			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
259	Glaucous gull			40			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			50			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			294			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Pigeon guillemot			20			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			30			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
260	Glaucous gull			4			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			31			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			16			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
261	Glaucous gull			2			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			5			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			2			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
262	Black-legged kittiwake			7000			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			56000			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			18			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			800			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Parakeet auklet			65			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			114			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Thick-billed murre			560			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			5			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
263	Black-legged kittiwake			550			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Common murre			3200			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			30			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			125			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			4			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			1			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
268	Glaucous gull			60			X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT	-
312	American peregrine falcon	S	C				X	X	X	X	X						-	APR-SEP	-	-
314	Arctic peregrine falcon	S	C				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
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
44	Rainbow smelt												X	X	X		-	-	-	-	SEP-NOV
	Saffron cod												X	X	X		-	-	-	-	SEP-NOV
55	Capelin									X	X	X					JUN-JUN	JUN-JUL	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
79	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
137	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
163	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
	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	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
168	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
169	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

NW ARCTIC, AK - ESIMAP 22 (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
170	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
174	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
184	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

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								-	-	-	-
84	Spotted seal			HIGH						X	X	X	X	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.

NW ARCTIC, AK - ESIMAP 23

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	-
85	American wigeon			100s								X	X				-	-	AUG-SEP	-
	Brant			1000s					X	X	X						MAY-JUL	-	-	-
	Canada goose			1000s								X	X				-	-	AUG-SEP	-
	Dunlin			1000s					X	X	X						MAY-JUN	JUN-JUL	-	-
	Dunlin			10000s							X	X	X				-	-	JUL-SEP	-
	Greater scaup			1000s								X	X				-	-	-	-
	Sandhill crane			1000s					X	X	X						-	MAY-JUL	-	-
	Semipalmated sandpiper			1000s					X	X	X						MAY-JUN	JUN-JUL	-	-
	Semipalmated sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
	Tundra swan			1000s								X	X	X			-	-	-	-
	Western sandpiper			1000s					X	X	X						MAY-JUN	JUN-JUL	-	-
	Western sandpiper			10000s							X	X	X				-	-	JUL-SEP	-
87	Spectacled eider	S/F	C/T	4030								X	X	X			-	-	-	-
264	Glaucous gull			20			X	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	-
	Pelagic cormorant			12			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
265	Glaucous gull			12			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			68			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			416			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	-
266	Glaucous gull			290			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			575			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			448			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			52			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT	-
269	Aleutian tern			30			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	-	-
314	Arctic 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					MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
55	Capelin									X	X	X					JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
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
137	Pacific halibut										X	X	X	X			-	-	-	-	JUL-OCT
146	Pacific herring								X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
	Whitefish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	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	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	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	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
177	Chum salmon (dog)				X	X	X	X	X		X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-MAY	MAY-MAY	JUL-SEP
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
186	Chum salmon (dog)				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	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
193	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
	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	-	-	-	-	-
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

NW ARCTIC, AK - ESIMAP 23 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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		-	-	-	-
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	-	-	-	-
	Spotted seal									X	X	X	X	X	X		-	-	-	-
	Walrus			HIGH				X	X								-	-	-	-
147	Spotted seal			HIGH						X	X	X	X	X	X		-	-	-	-
	Walrus									X	X		X	X			-	-	-	-
148	Beluga whale			HIGH						X	X	X	X	X	X		-	JUN-AUG	-	-

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.

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					-	-	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.

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.

NW ARCTIC, AK - ESIMAP 26

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
87	Spectacled eider	S/F	C/T	4030	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-
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			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-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	-
270	Glaucous gull			5				X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			12				X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			12				X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT	-
312	American peregrine falcon	S	C					X	X	X	X	X				-	APR-SEP	-	-
314	Arctic peregrine falcon	S	C					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
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
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
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
171	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
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
174	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
175	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
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-AUG	JAN-DEC	JUL-SEP
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
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
186	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
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	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
196	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
	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
197	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
199	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
	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
200	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUL	JAN-DEC	JUL-AUG
	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

NW ARCTIC, AK - ESIMAP 26 (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	-	-	-	-	-

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	-	-	-	-
	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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HUMAN USE RESOURCES:

CRITICAL HABITAT:

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

MANAGEMENT AREA:

HUN#	Name	Owner	Contact	Phone
4	UNALAKLEET WILD & SCENIC RIVER		BUREAU OF LAND MANAGEMENT	907/267-1246

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.

NW ARCTIC, AK - ESIMAP 27

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
87	Spectacled eider	S/F	C/T	4030								X	X	X			-	-	-
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
153	Surf scoter			HIGH					X	X	X	X	X				-	-	-
271	Common eider			UNKNOWN			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			47			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			250			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			182			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			4			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
272	Black-legged kittiwake			700			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common eider			3			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			4260			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			50			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			48			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			40			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
273	Black-legged kittiwake			1200			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Common murre			5840			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			40			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			46			X	X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			60			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
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
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
137	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
155	Pacific herring							X	X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP
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	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
197	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

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	-	-	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			-	-	-	-
	Spotted seal							X	X	X	X	X	X	X			-	-	-	-
	Walrus			HIGH				X	X								-	-	-	-
89	Beluga whale			HIGH				X	X								-	-	-	-
155	Bearded seal			HIGH				X	X	X							-	-	-	-
	Ringed seal			HIGH	X	X	X	X	X	X				X	X	X	-	-	MAR-MAY	MAR-JUN
	Spotted seal			HIGH				X	X	X	X	X	X	X			-	-	-	-
	Walrus			HIGH				X	X			X	X				-	-	-	-

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NW ARCTIC, AK - ESIMAP 27 (cont.)

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.

NW ARCTIC, AK - ESIMAP 28

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
87	Spectacled eider	S/F	C/T	4030								X	X	X			-	-	-
215	Aleutian tern			35				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
313	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	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
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
168	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
169	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
171	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
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
175	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
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUL-DEC	DEC-AUG	JAN-DEC	JUL-SEP
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	SEP-OCT	SEP-DEC	DEC-JUN	JAN-DEC	JAN-DEC
177	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
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
200	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUL	JAN-DEC	JUL-AUG
	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
202	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

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	-	-	-	-	-

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			-	-	-	-
	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

MANAGEMENT AREA:

HUN#	Name	Owner	Contact	Phone
4	UNALAKLEET WILD & SCENIC RIVER		BUREAU OF LAND MANAGEMENT	907/267-1246

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
13	INNOKO NATIONAL WILDLIFE REFUGE		US FISH & WILDLIFE SERVICE	907/524-3251

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.

NW ARCTIC, AK - ESIMAP 29

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
87	Spectacled eider	S/F	C/T	4030								X	X	X			-	-	-
209	Black-legged kittiwake			700				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre			1960				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			210				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			23				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			10				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			40				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			25				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
210	Arctic tern			4				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Common eider			25				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			8				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
211	Pelagic cormorant			8				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
212	Arctic tern			8				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Common eider			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			UNKNOWN				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			100				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			2				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
213	Glaucous gull			UNKNOWN				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
214	Glaucous gull			55				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			14				X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			65				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
23	Sheefish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	NOV-APR
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
96	Capelin								X	X	X						JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
97	Pacific herring			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	NOV-SEP
																			NOV-APR		
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	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
174	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
204	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-AUG	JUL-DEC	DEC-JUL	JAN-DEC	JUL-AUG
	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
317	Pacific herring			VERY HIGH				X	X	X	X	X	X				MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	APR-SEP

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
24	Walrus								X	X			X	X			-	-	-	-
80	Bearded seal				X	X	X	X	X						X	X	-	-	-	-
	Gray whale							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

WILDLIFE REFUGE:

HUN#	Name	Owner	Contact	Phone
15	YUKON DELTA NATIONAL WILDLIFE REFUGE		US FISH & WILDLIFE SERVICE	907/543-3151

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.

NW ARCTIC, AK - ESIMAP 30

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	
87	Spectacled eider	S/F	C/T	4030								X	X	X			-	-	-	-
103	American golden-plover			1000							X	X	X				-	-	JUL-SEP	-
	Dunlin			16000						X	X						-	JUN-JUL	-	-
	Long-billed dowitcher			1000							X	X	X				-	-	JUL-SEP	-
	Pectoral sandpiper			1000							X	X	X				-	-	JUL-SEP	-
	Red-necked phalarope			20000						X	X						-	JUN-JUL	-	-
	Semipalmated sandpiper			10000s						X	X						-	JUN-JUL	-	-
	Sharp-tailed sandpiper			1000							X	X	X				-	-	JUL-SEP	-
104	American wigeon									X	X	X	X	X			MAY-JUN	MAY-AUG	JUN-SEP	-
	Common eider									X	X	X	X	X			MAY-JUN	JUN-JUL	JUL-SEP	-
	Greater scaup									X	X	X	X	X			MAY-JUN	MAY-SEP	JUN-SEP	-
	Green-winged teal									X	X	X	X	X			MAY-MAY	MAY-AUG	JUN-SEP	-
	Mallard									X	X	X	X	X			APR-MAY	MAY-AUG	AUG-SEP	-
	Northern pintail									X	X	X	X	X			MAY-MAY	MAY-AUG	JUN-SEP	-
	Northern shoveler									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-throated loon									X	X	X	X	X			MAY-JUN	MAY-AUG	AUG-SEP	-
	Sandhill crane									X	X	X	X	X	X		APR-MAY	MAY-JUL	AUG-SEP	-
105	Scoters										X	X	X	X			-	-	-	-
216	Arctic tern			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			185						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Murre			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			15						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
217	Arctic tern			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Cormorant			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Pelagic cormorant			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
218	Black-legged kittiwake			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Glaucous gull			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Murre			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Pigeon guillemot			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
219	Black-legged kittiwake			100						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Horned puffin			140						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Pigeon guillemot			UNKNOWN						X	X	X	X	X	X		APR-MAY	JUN-JUL	AUG-OCT	-
	Tufted puffin			10						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
23	Sheefish			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	NOV-APR
96	Capelin									X	X	X					JUN-JUN	JUN-JUL	JUN-AUG	-	JUN-AUG
	Whitefish				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
97	Pacific herring			VERY HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	MAY-JUL	MAY-JUL	JUN-JUL	NOV-SEP
																				NOV-APR	
160	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
	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
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
205	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
	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
206	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
	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
207	Sheefish				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	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	-	-	-	-
	Spotted seal									X	X	X	X	X	X	X	-	-	-	-
	Walrus			HIGH						X	X						-	-	-	-
89	Beluga whale			HIGH						X	X						-	-	-	-

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NW ARCTIC, AK - ESIMAP 30 (cont.)

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.

NW ARCTIC, AK - ESIMAP 31

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
38	King eider			VERY HIGH								X	X	X			-	-	-
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					-	-	-
113	Spectacled eider	S/F	C/T	1000s	X	X	X	X	X	X	X	X					-	-	-
229	Common eider			UNKNOWN				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			UNKNOWN				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
231	Glaucous gull			61				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			59				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
236	Black-legged kittiwake			52				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			2				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			UNKNOWN				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			30				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			504				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			350				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			4450				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
237	Common eider			160				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			274				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			942				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
238	Common murre			UNKNOWN				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			22				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			168				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			66				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			35				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
255	Herring gull			2				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			40				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	X				-	-	-	-	JUL-OCT
188	Dolly varden				X	X	X	X	X	X	X	X	X	X	X	X	AUG-OCT	AUG-DEC	DEC-JUN	JAN-DEC	JAN-DEC
203	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		-	-	-	-	-
	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	-	-	-	-	-
40	Blue 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
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

NW ARCTIC, AK - ESIMAP 31 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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
116	Spotted seal			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-JUL
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.

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	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	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	X			-	-	-
113	Spectacled eider	S/F C/T	1000s	X	X	X	X	X	X	X	X	X	X			-	-	-
222	Black-legged kittiwake		387			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre		168			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet		128208			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull		4			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Herring gull		2			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin		155			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Least auklet		17814			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet		151			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant		8			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot		402			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre		733			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin		104			X	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	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre		7317			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet		194550			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Herring gull		10			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin		441			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Least auklet		606060			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet		483			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant		18			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot		723			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre		10917			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin		286			X	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	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre		8564			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant		20			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre		2433			X	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	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre		1435			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet		35412			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Herring gull		4			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin		236			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Least auklet		29928			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet		151			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant		62			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot		324			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre		4311			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin		210			X	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	X			APR-MAY	JUN-JUL	AUG-OCT
	Common murre		8648			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet		10			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Herring gull		4			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin		82			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Least auklet		30			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet		119			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant		26			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot		210			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre		2979			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin		19			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
233	Crested auklet		234			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin		17			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Least auklet		3108			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet		46			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot		64			X	X	X	X	X	X	X	X			APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin		6			X	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	X	-	-	-	-
	Gray whale							X	X	X	X	X	X	X	X	X	-	-	-	-
	Killer whale							X	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.

NW ARCTIC, AK - ESIMAP 33

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
38	King eider			VERY HIGH								X	X	X			-	-	-
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					-	-	-
248	Common eider			56				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Glaucous gull			154				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Herring gull			286				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
249	Herring gull			22				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			42				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
250	Aleutian tern			2				X	X	X	X	X	X				APR-MAY	JUN-JUL	AUG-OCT
	Arctic tern			194				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
112	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
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	-	-	-	-	-
	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	-	-	-	-	-
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
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	X	-	-	-	-
	Ringed seal				X	X	X	X	X	X				X	X	X	-	-	MAR-MAY	MAR-JUN
115	Spotted seal			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-JUL
116	Spotted seal			HIGH				X	X	X	X	X	X	X	X	X	-	-	-	APR-JUL

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.

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	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					-	-	-
	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					-	-	-
113	Spectacled eider	S/F	C/T	1000s	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					APR-MAY	JUN-JUL	AUG-OCT
	Common murre			16758	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					APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			1299	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					APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			1314	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					APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			18696	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					APR-MAY	JUN-JUL	AUG-OCT
221	Crested auklet			127500	X	X	X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT
	Dovekie			9	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					APR-MAY	JUN-JUL	AUG-OCT
	Least auklet			382600	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					APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			795	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					APR-MAY	JUN-JUL	AUG-OCT
225	Black-legged kittiwake			5390	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					APR-MAY	JUN-JUL	AUG-OCT
	Crested auklet			109900	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					APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			660	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					APR-MAY	JUN-JUL	AUG-OCT
	Parakeet auklet			1069	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					APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			585	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					APR-MAY	JUN-JUL	AUG-OCT
	Tufted puffin			948	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					APR-MAY	JUN-JUL	AUG-OCT
227	Glaucous gull			44	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					APR-MAY	JUN-JUL	AUG-OCT
242	Black-legged kittiwake			3432	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					APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			75	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					APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			6	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					APR-MAY	JUN-JUL	AUG-OCT
	Thick-billed murre			6198	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					APR-MAY	JUN-JUL	AUG-OCT
246	Black-legged kittiwake			2	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					APR-MAY	JUN-JUL	AUG-OCT
	Horned puffin			115	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					APR-MAY	JUN-JUL	AUG-OCT
	Pelagic cormorant			434	X	X	X	X	X	X	X	X					APR-MAY	JUN-JUL	AUG-OCT
	Pigeon guillemot			282	X	X	X	X	X	X	X	X		</					

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	-	-	-	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			

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