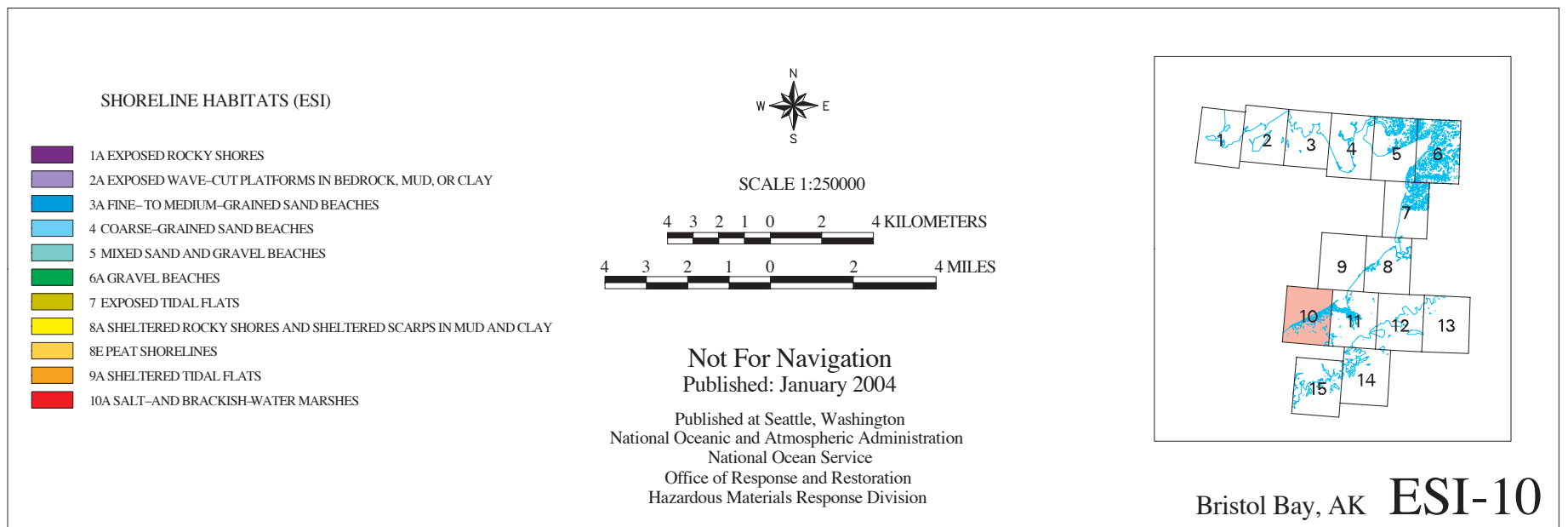
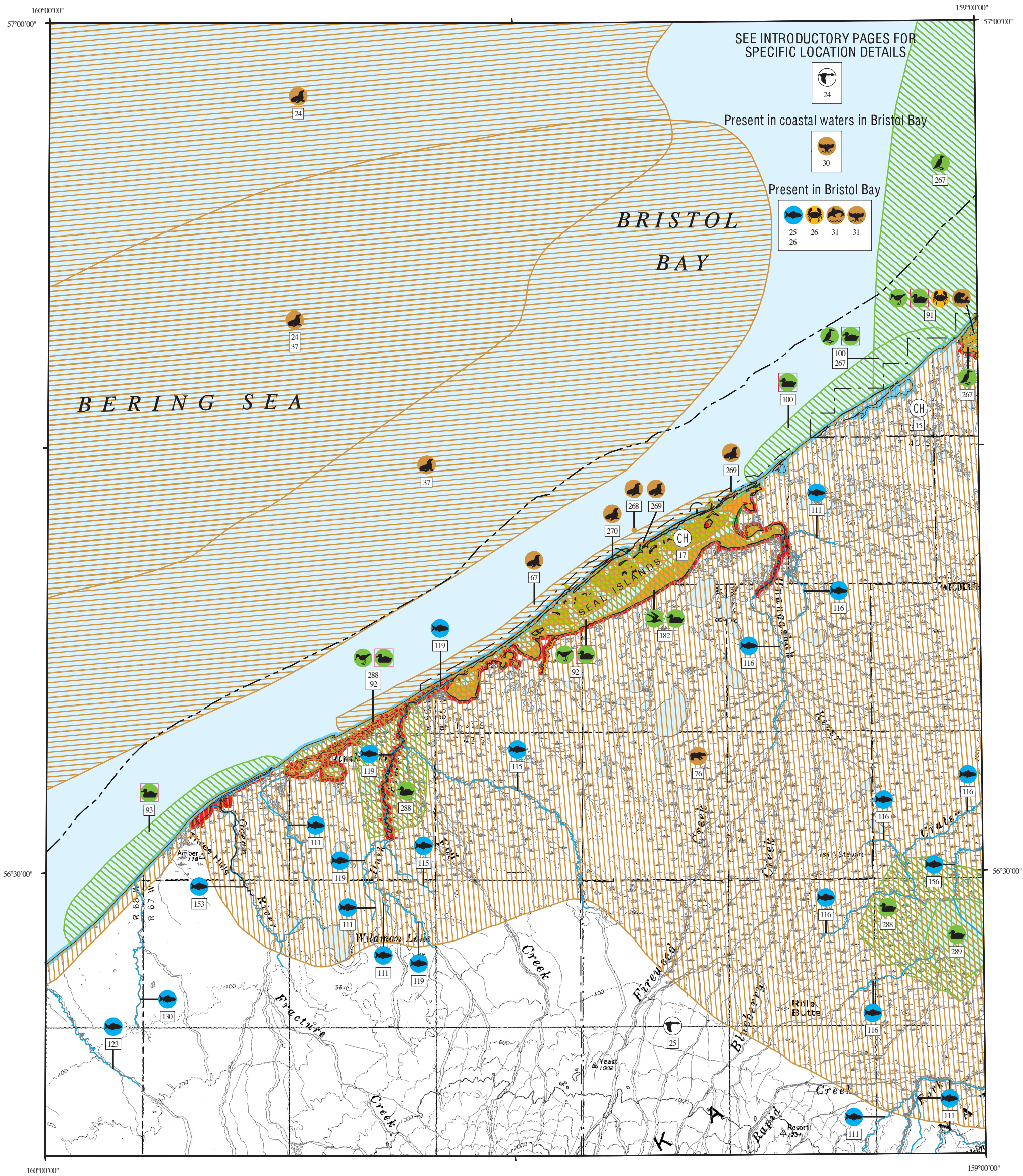


ENVIRONMENTAL SENSITIVITY INDEX MAP



Bristol Bay: ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting
91	Bar-tailed godwit			100S				X	X	X	X	X	X	X			MAY-JUL	APR-OCT		-
	Black scoter			10,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Canada goose			1,000S								X	X	X			-	AUG-OCT		-
	Common eider			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Dunlin			10,000S				X	X	X	X	X	X	X			MAY-JUL	APR-OCT		-
	Emperor goose			10,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	King eider			1,000S			X	X									-	MAR-APR		-
	Long-tailed duck			100S				X	X								-	APR-MAY		-
	Northern pintail			10,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Red-necked phalarope			1,000S						X	X	X	X	X			-	JUN-OCT		-
	Rock sandpiper			1,000S				X	X	X	X	X	X	X			MAY-JUL	APR-OCT		-
	Scaup			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Steller's eider	C	T	10,000S				X	X		X	X	X	X			-	APR-MAY	AUG-OCT	JUL-AUG
	Surf scoter			100S								X	X	X			-	AUG-OCT		-
	Western sandpiper			10,000S				X	X	X	X						-	APR-JUL		-
	White-winged scoter			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
92	Bar-tailed godwit									X	X	X	X	X			-	JUN-OCT		-
	Black scoter			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Black turnstone							X	X	X							-	APR-JUN		-
	Canada goose			100S								X	X	X			-	AUG-OCT		-
	Common eider			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Dunlin			10,000S						X	X	X	X	X			MAY-JUL	MAY-OCT		-
	Emperor goose			10,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	King eider			1,000S				X	X	X	X	X	X	X			-	APR-MAY	AUG-OCT	-
	Least sandpiper							X	X	X							MAY-JUL	MAY-JUL		-
	Long-tailed duck			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Northern pintail			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Red phalarope			1,000S						X	X	X	X	X			-	JUN-OCT		-
	Red-necked phalarope			1,000S						X	X	X	X	X			-	JUN-OCT		-
	Rock sandpiper			10,000S				X	X	X	X	X	X	X			MAY-JUL	APR-OCT		-
	Ruddy turnstone							X	X	X	X	X	X	X			-	APR-OCT		-
	Sanderling									X	X	X	X	X			-	JUN-OCT		-
	Short-billed dowitcher									X	X	X	X	X			MAY-JUL	MAY-OCT		-
	Steller's eider	C	T	10,000S				X	X		X	X	X	X			-	APR-MAY	AUG-OCT	JUL-AUG
	Western sandpiper							X	X	X	X	X	X	X			-	APR-OCT		-
	White-winged scoter			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
93	Black scoter			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Emperor goose			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Harlequin duck			100S				X	X								-	APR-MAY		-
	King eider			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Long-tailed duck			100S				X	X								-	APR-MAY		-
	Northern pintail			100S								X	X	X			-	AUG-OCT		-
	Steller's eider	C	T	1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	White-winged scoter			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
100	Black scoter			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Canada goose			1,000S								X	X	X			-	AUG-OCT		-
	Common eider			100S				X	X								-	APR-MAY		-
	Emperor goose			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	King eider			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Long-tailed duck			100S				X	X								-	APR-MAY		-
	Northern pintail			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Steller's eider	C	T	1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
182	Common eider			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			1,500				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
267	Kittlitz's murrelet					X	X	X	X				X	X	X	X	-	-		-
288	Scaup			3-8 BIRDS/SQ.KM						X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-
289	Scaup			3-8 BIRDS/SQ.KM						X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-
	Black scoter			3-7 BIRDS/SQ.KM						X	X	X	X	X			JUN-JUL	MAY-MAY	AUG-OCT	-

FISH:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
25	Chinook salmon									X	X	X	X				-	-	-	MAY-JUN	MAY-AUG
	Chum salmon (dog)									X	X	X	X				-	-	-	MAY-JUN	JUN-AUG
	Coho salmon (silver)									X	X	X	X	X	X		-	-	-	MAY-JUN	JUL-OCT
	Dolly varden									X	X	X	X	X			-	-	-	MAY-JUN	MAY-SEP
	Pink salmon (humpy)									X	X	X					-	-	-	MAY-JUN	JUN-JUL
	Sockeye salmon (red)			HIGH						X	X	X	X				-	-	-	MAY-JUN	MAY-AUG
26	Alaska plaice				X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	MAY-JUN	MAY-JUN	JAN-DEC	JAN-DEC
	Pacific cod				X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAY	-	-	JAN-DEC	JAN-DEC
	Pacific halibut									X	X	X	X				-	-	-	-	JUL-OCT
	Rainbow smelt				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Rock sole				X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAR	-	-	JAN-DEC	DEC-SEP
	Sculpin				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Starry flounder				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Walleye pollock				X	X	X	X	X	X	X	X	X	X	X	X	FEB-MAY	-	-	JAN-DEC	JAN-DEC
	Yellowfin sole				X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	JUN-AUG	JUN-NOV	JAN-DEC	MAY-AUG
111	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP
115	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP
116	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
119	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP
123	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
130	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP
153	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP
156	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-SEP
	Chum salmon (dog)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	AUG-MAR	MAR-MAY	JAN-DEC	JUN-SEP
	Coho salmon (silver)				X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	OCT-MAR	MAR-MAY	JAN-DEC	JUL-NOV
	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	AUG-SEP	SEP-MAR	MAR-MAY	MAY-JUN	JUN-SEP
	Rainbow trout (steelhead)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sockeye salmon (red)				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	JUN-SEP

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.

Bristol Bay: ESIMAP 10 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
26	Red king crab				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUL	-	-	JAN-DEC	JAN-DEC
	Tanner crab				X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	JAN-DEC	JAN-DEC
91	Red king crab			HIGH						X	X	X					-	-	-	MAY-JUL	-
MARINE MAMMAL:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Molting	Pupping	
24	Walrus			HIGH	X	X	X									X	DEC-MAR	-	-	-	
30	Gray whale							X	X	X							-	-	-	-	
31	Harbor porpoise									X	X	X					-	-	-	-	
	Killer whale						X	X	X	X	X	X	X	X			-	SEP-OCT	-	-	
	Minke whale									X	X	X					-	-	-	-	
37	Walrus			HIGH						X	X	X	X	X			-	-	-	-	
67	Seals			HIGH			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL	
91	Sea otter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	
268	Seals			100S			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL	
269	Seals			<10			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL	
270	Seals			10S			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL	
TERRESTRIAL MAMMAL:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D					
76	Brown bear			HIGH					X	X	X										

HUMAN USE RESOURCES:

HUN#	Name	Owner	Contact	Phone
15	PORT HEIDEN CRITICAL HABITAT AREA	ALASKA DEPT. OF FISH & GAME	MARK FINK	907/267-2338
17	STELLER'S EIDER CRITICAL HABITAT	US FISH & WILDLIFE SERVICE		907/271-2778

WILDLIFE REFUGE:				
HUN#	Name	Owner	Contact	Phone
24	ALASKA MARITIME NWR	US FISH & WILDLIFE SERVICE	REFUGE MANAGER	907/246-3339
25	ALASKA PENINSULA NWR	US FISH & WILDLIFE SERVICE	REFUGE MANAGER	907/246-3339

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