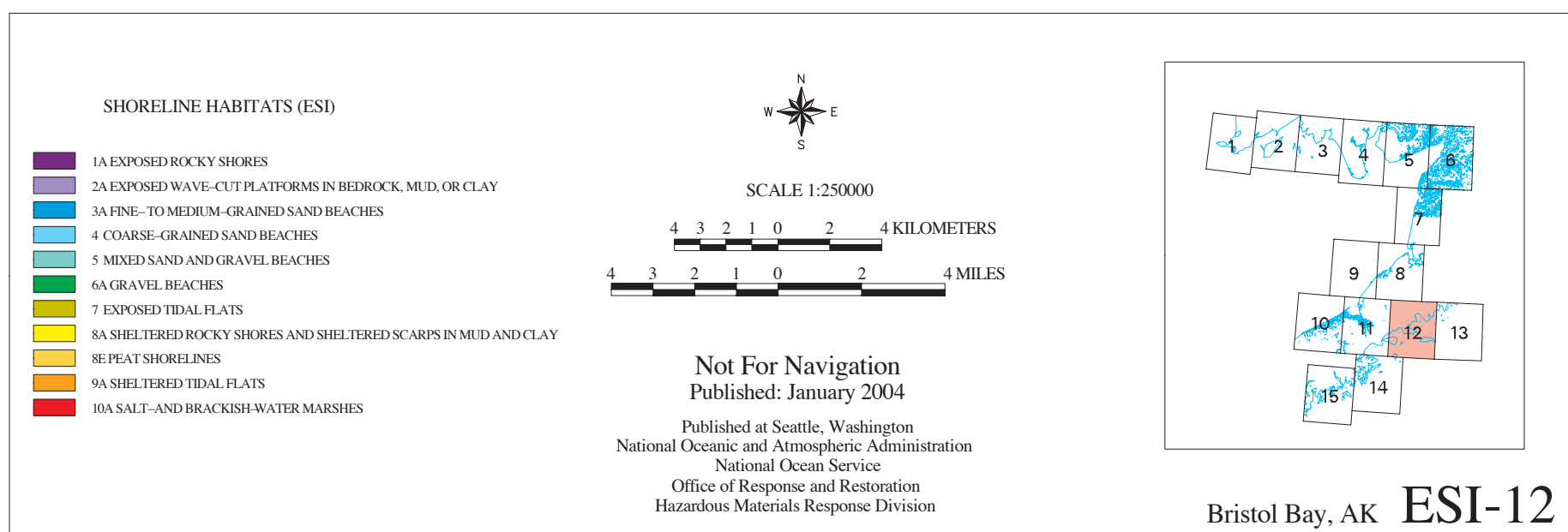
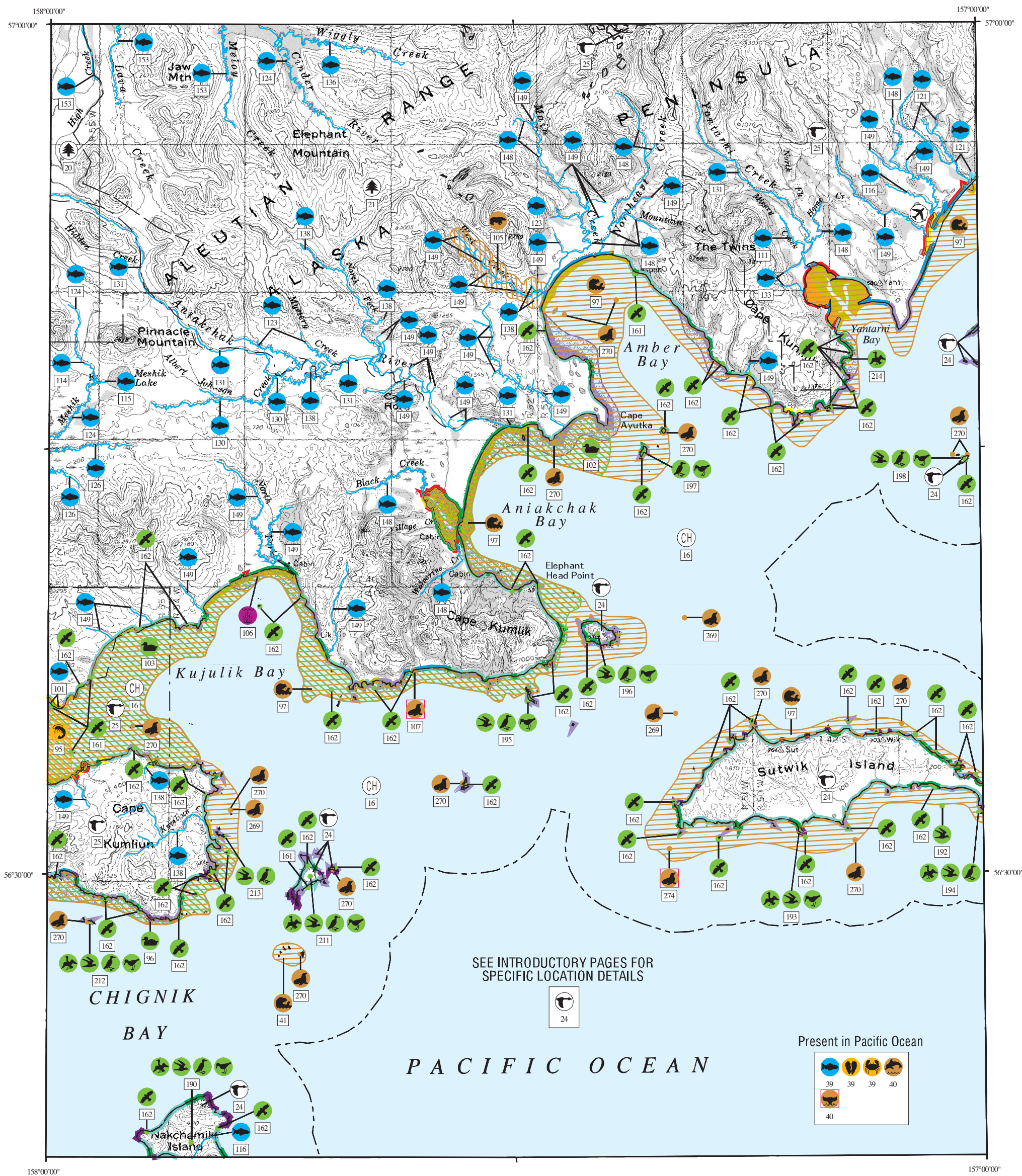


ENVIRONMENTAL SENSITIVITY INDEX MAP



BIOLOGICAL RESOURCES:

RAR#

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting
96	Black scoter	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Brant	100S					X	X							-	APR-MAY		-
	Emperor goose	1,000S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Harlequin duck	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
102	Black scoter	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Brant	100S					X	X							-	APR-MAY		-
	Emperor goose	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Harlequin duck	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Surf scoter	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	White-winged scoter	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
103	Black scoter	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Brant	100S					X	X							-	APR-MAY		-
	Emperor goose	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Harlequin duck	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Northern pintail	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Scaup	100S					X	X							-	APR-MAY		-
	Surf scoter	1,000S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	White-winged scoter	100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
161	Bald eagle						X	X	X	X	X				APR-AUG	-		-
162	Bald eagle						X	X	X	X	X				APR-AUG	-		-
190	Black oystercatcher	UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull	150					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin	50					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pigeon guillemot	UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Red-faced cormorant	60					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin	200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
192	Glaucous-winged gull	200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
193	Black oystercatcher	UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Double-crested cormorant	54					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull	140					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
194	Black-legged kittiwake	20					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull	60					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pelagic cormorant	4					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
195	Black oystercatcher	6					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull	120					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin	120					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Parakeet auklet	80					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-

RAR#

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
39	Arrowtooth flounder				X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	DEC-MAY	MAR-AUG	JAN-DEC	JAN-DEC
	Atka mackerel				X	X	X	X	X	X	X	X	X	X	X	X	MAY-OCT	JUN-AUG	SEP-FEB	JAN-DEC	JAN-DEC
	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
	Dover sole				X	X	X	X	X	X	X	X	X	X	X	X	JAN-AUG	MAR-AUG	JAN-DEC	JAN-DEC	JAN-DEC
	Flathead sole				X	X	X	X	X	X	X	X	X	X	X	X	DEC-APR	DEC-MAR	APR-AUG	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
	Pink salmon (humpy)								X	X	X						-	-	-	MAY-JUN	JUN-JUL
	Rex sole				X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	MAY-JUN	MAY-JUN	JAN-DEC	JAN-DEC
	Rock sole				X	X	X	X	X	X	X	X	X	X	X	X	JAN-MAR	-	-	JAN-DEC	DEC-SEP
	Rougheye rockfish				X	X	X	X	X	X	X	X	X	X	X	X	JUL-DEC	-	-	-	JAN-DEC
	Sablefish (blackcod)				X	X	X	X	X								JAN-MAY	-	-	-	JAN-MAY
	Sculpin				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Shortraker rockfish				X	X	X	X	X	X	X	X	X	X	X	X	JUL-DEC	-	-	-	JAN-DEC
	Sockeye salmon (red)								X	X	X	X					-	-	-	MAY-JUN	MAY-AUG
	Walleye pollock				X	X	X	X	X	X	X	X	X	X	X	X	FEB-APR	-	MAR-JUL	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
101	Pacific herring								X	X	X	X					APR-JUN	MAY-JUL	-	-	APR-JUL
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
114	Chinook salmon				X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-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
121	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
	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
	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 12 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
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
124	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
	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
126	Chinook salmon	-	-		X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	SEP-MAR	MAR-MAY	JAN-DEC	MAY-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
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
131	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
	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
	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
133	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
	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
	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
136	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
138	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
148	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
	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
149	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
	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
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

HABITAT:																
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
106	Kelp	-	-	HIGH	X	X	X	X	X	X	X	X	X	X	X	X

INVERTEBRATE:																					
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
39	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
	Weathervane scallop	-	-		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	MAY-JUL	MAY-AUG	JAN-DEC	JAN-DEC
95	Pandalid shrimp	-	-	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	SEP-NOV	SEP-MAY	MAR-MAY	JAN-DEC	JAN-DEC

MARINE MAMMAL:																				
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Molting	Pupping
40	Dall's porpoise	-	-		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Fin whale		E		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Gray whale							X	X	X							-	-	-	-
	Harbor porpoise				X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-AUG	-	-
	Humpback whale	E	E							X	X	X					-	-	-	-
	Killer whale				X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-DEC	-	-
41	Sea otter				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC
97	Sea otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC
107	Steller (Northern) sea lion	C	E					X	X	X	X	X					-	-	-	-
269	Seals			<10				X	X	X	X	X	X	X			-	-	-	MAY-JUL
270	Seals			10S				X	X	X	X	X	X	X			-	-	-	MAY-JUL
274	Steller (Northern) sea lion	C	E	135				X	X	X	X	X					-	-	-	-

TERRESTRIAL MAMMAL:																
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D
105	Brown bear			HIGH							X	X	X			

HUMAN USE RESOURCES:

CRITICAL HABITAT:				
HUN#	Name	Owner	Contact	Phone
16	STELLER SEA LION CRITICAL HABITAT	NMFS	NMFS	907/586-7858

NATIONAL PARK:				
HUN#	Name	Owner	Contact	Phone
20	ANIAKCHAK NATIONAL MONUMENT	NATIONAL PARK SERVICE		907/246-3305
21	ANIAKCHAK NATIONAL MONUMENT & PRESERVE	NATIONAL PARK SERVICE		907/246-3305

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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