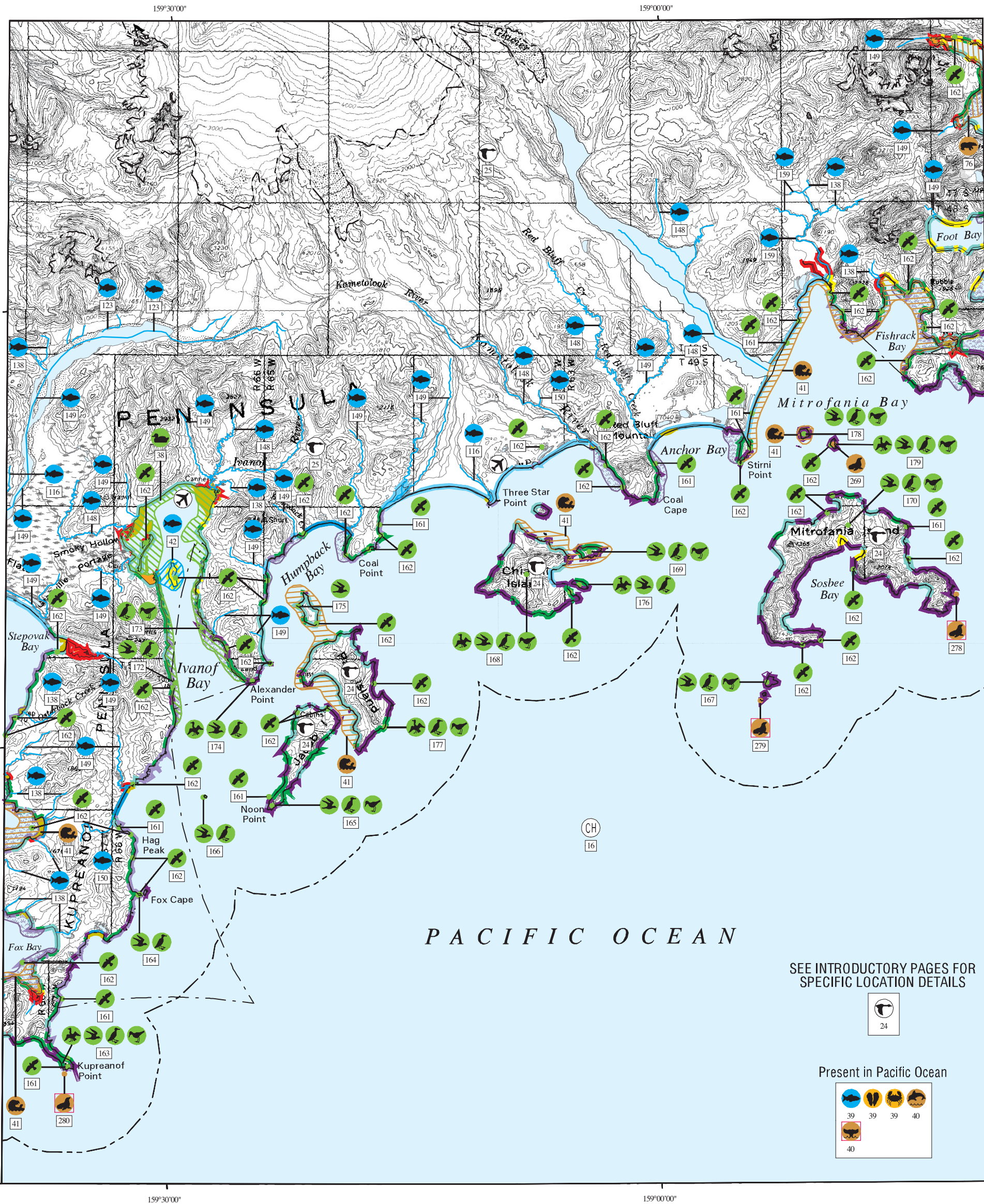


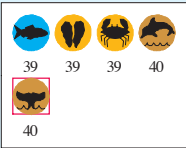
ENVIRONMENTAL SENSITIVITY INDEX MAP



SEE INTRODUCTORY PAGES FOR
SPECIFIC LOCATION DETAILS



Present in Pacific Ocean



SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK, MUD, OR CLAY
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES AND SHELTERED SCARPS IN MUD AND CLAY
- 8E PEAT SHORELINES
- 9A SHELTERED TIDAL FLATS
- 10A SALT-AND BRACKISH-WATER MARSHES



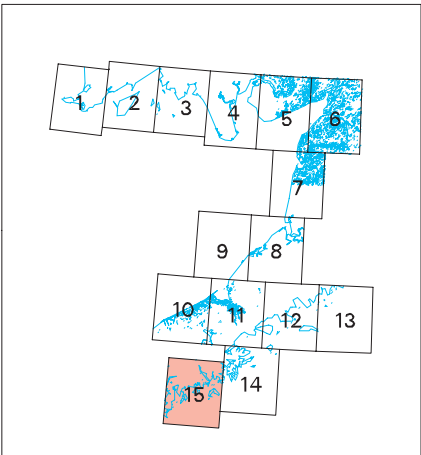
SCALE 1:250000

4 3 2 1 0 2 4 KILOMETERS

4 3 2 1 0 2 4 MILES

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National Ocean Service
Office of Response and Restoration
Hazardous Materials Response Division



Bristol Bay: ESIMAP 15

BIOLOGICAL RESOURCES:

BIRD:																				
RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting
38	Black scoter			100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Emperor goose			1,000S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Northern pintail			100S					X	X			X	X	X		-	APR-MAY	AUG-OCT	-
	Sea ducks								X	X			X	X			-	APR-MAY	SEP-OCT	-
161	Bald eagle								X	X	X	X	X				APR-AUG	-		-
162	Bald eagle								X	X	X	X	X				APR-AUG	-		-
163	Black oystercatcher			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Black-legged kittiwake			160					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			300					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pelagic cormorant			12					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			100					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			1,500					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
164	Glaucous-winged gull			1,200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			4,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
165	Black oystercatcher			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			100					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			1,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
166	Glaucous-winged gull			250					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	-
167	Ancient murrelet			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Black oystercatcher			2					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Black-legged kittiwake			30,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Common murre			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Fork-tailed storm-petrel			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			4,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Leach's storm-petrel			200					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Murre			4,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pigeon guillemot			4					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Thick-billed murre			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			2,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
168	Black oystercatcher			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			500					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			200					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			36					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			2,000					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
169	Black oystercatcher			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Black-legged kittiwake			120					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			100					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			40					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			600					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
170	Black oystercatcher			20					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			300					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			400					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	-
172	Glaucous-winged gull			20					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			200					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	-
173	Black oystercatcher			2					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			UNKNOWN					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	-
174	Cormorant			10					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Glaucous-winged gull			10					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			400					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pigeon guillemot			25					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Red-faced cormorant			10					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
175	Arctic tern			80					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
176	Glaucous-winged gull			300					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			20					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			30					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
177	Black oystercatcher			UNKNOWN					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			10					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pelagic cormorant			30					X	X	X	X	X	X	X		JUN-JUL	APR-MAY	AUG-OCT	-
	Pigeon																			

Bristol Bay: ESIMAP 15 (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
39	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
42	Pacific herring								X	X	X	X					APR-JUN	MAY-JUL	-	-	APR-JUL
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
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
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
150	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
159	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
	Rainbow trout (steelhead)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC

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-JUL	MAY-JUL	MAY-AUG	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
269	Seals			<10			X	X	X	X	X	X	X	X			-	-	-	MAY-JUL
278	Steller (Northern) sea lion	C	E	195				X	X	X	X	X					-	-	-	-
279	Steller (Northern) sea lion	C	E	27				X	X	X	X	X					-	-	-	-
280	Steller (Northern) sea lion	C	E	35				X	X	X	X	X					-	-	-	-

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:

CRITICAL HABITAT:

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

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

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.