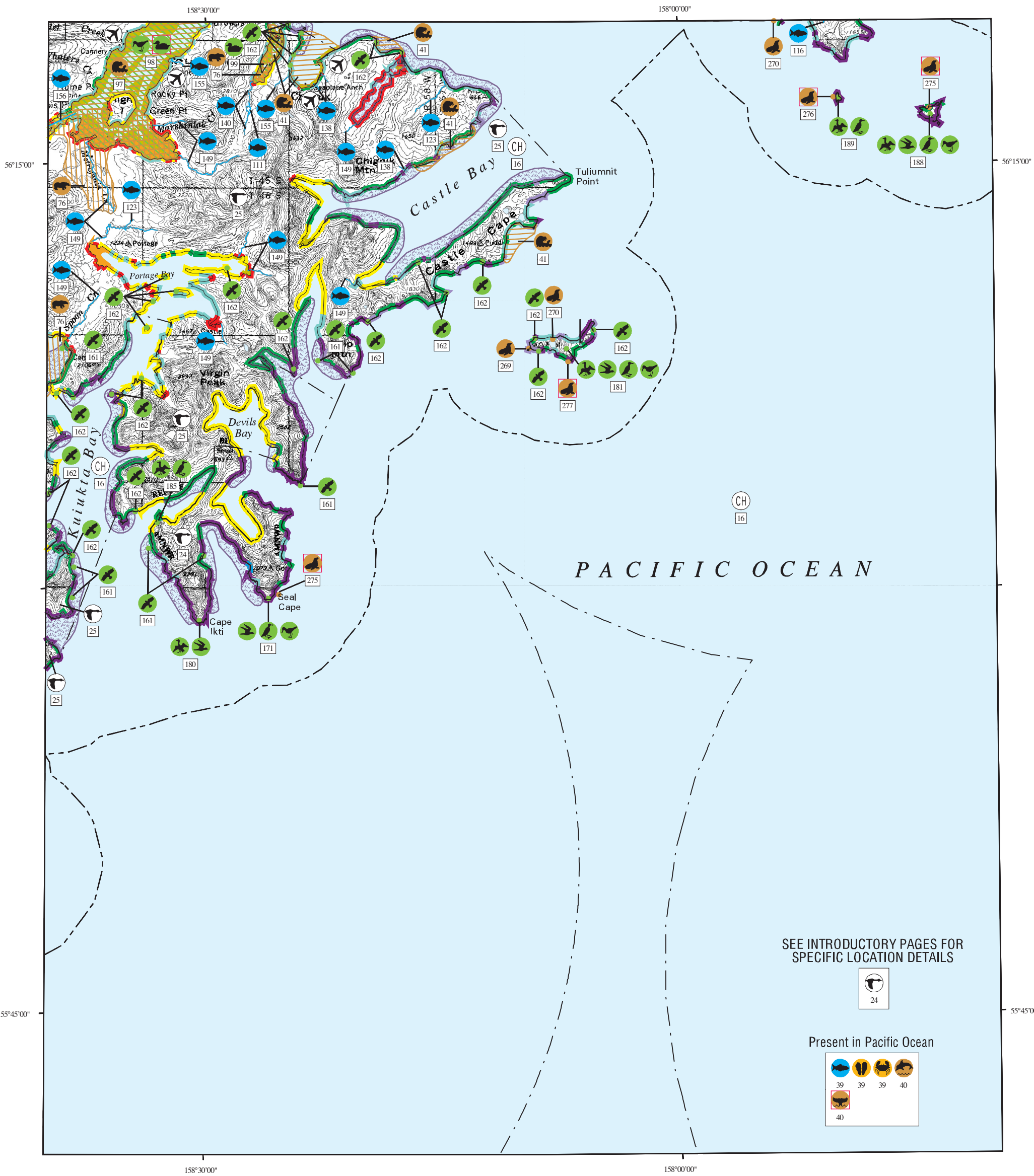


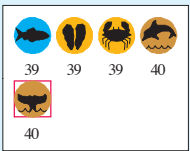
ENVIRONMENTAL SENSITIVITY INDEX MAP



SEE INTRODUCTORY PAGES FOR  
SPECIFIC LOCATION DETAILS



Present in Pacific Ocean

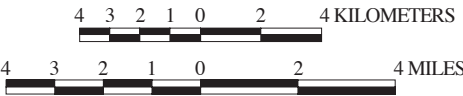


SHORELINE HABITATS (ESI)

- 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

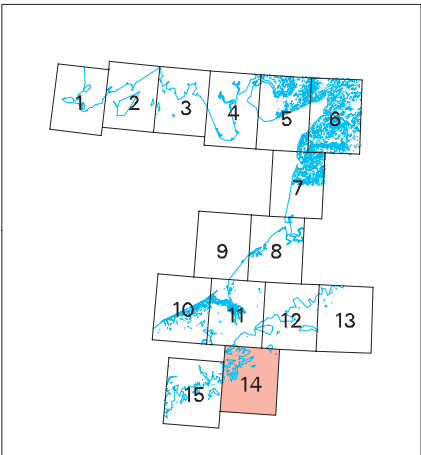


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National Ocean Service  
Office of Response and Restoration  
Hazardous Materials Response Division



Bristol Bay: ESIMAP 14

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S	F	Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating		Molting
98	Black scoter			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Brant			1,000S				X	X								-	APR-MAY		-
	Emperor goose			10,000S	X	X	X	X	X				X	X	X	X	-	APR-MAY	SEP-OCT	-
	Harlequin duck			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Northern pintail			100S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Rock sandpiper							X	X	X	X	X	X	X			-	APR-OCT		-
	Scaup			1,000S				X	X			X	X	X			-	APR-MAY	AUG-OCT	-
	Shorebirds							X	X	X	X	X	X	X			-	APR-OCT		-
	Steller's eider	C	T	100S	X	X	X	X	X			X	X	X	X		-	APR-MAY	SEP-OCT	-
	White-winged scoter				X	X	X	X	X			X	X	X	X		-	APR-MAY	SEP-OCT	-
99	Waterfowl			HIGH	X	X	X	X	X			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	-		-
171	Black oystercatcher			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Black-legged kittiwake			180				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	-
	Pigeon guillemot			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
180	Glaucous-winged gull			60				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	-
	Red-faced cormorant			30				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
181	Black oystercatcher			30				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	-
	Common murre			40				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			40				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Pelagic cormorant			10				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	-
	Red-faced cormorant			120				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
185	Black-legged kittiwake			60				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			60				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Pelagic cormorant			10				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Pigeon guillemot			70				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			20				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
188	Ancient murrelet			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Black oystercatcher			12				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Black-legged kittiwake			15,000				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Common murre			12,600				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Double-crested cormorant			2				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			300				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			500				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Leach's storm-petrel			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Parakeet auklet			50				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	-
	Pigeon guillemot			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Red-faced cormorant			40				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Thick-billed murre			1,400				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Tufted puffin			8,000				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
189	Ancient murrelet			UNKNOWN				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Horned puffin			30				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Pelagic cormorant			2				X	X	X	X	X	X	X			JUN-JUL	APR-MAY	AUG-OCT	-
	Pigeon guillemot			40				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	-

FISH:

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									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
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
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
140	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
	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
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
155	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
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 14 (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
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	
97	Sea otter	-	-	HIGH	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	
270	Seals	-	-	10S	-	-	X	X	X	X	X	X	X	X	-	-	-	-	-	MAY-JUL	
275	Steller (Northern) sea lion	-	C	E	-	-	-	-	X	X	X	X	X	-	-	-	-	-	-	-	
276	Steller (Northern) sea lion	-	C	E	174	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	
277	Steller (Northern) sea lion	-	C	E	4	-	-	-	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

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