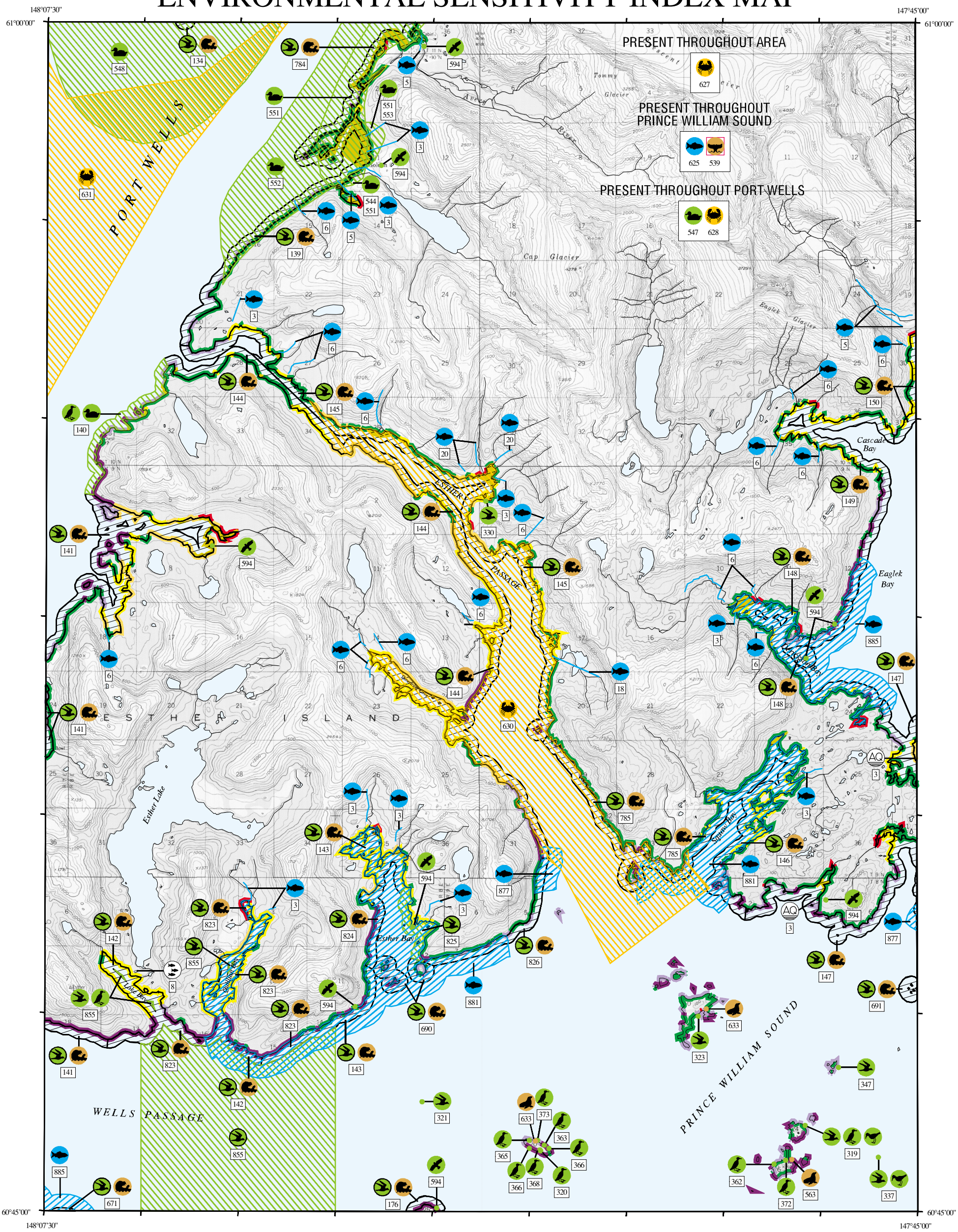
ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS

- 1A EXPOSED ROCKY SHORES
- 2A EXPOSED WAVE–CUT PLATFORMS IN BEDROCK
- 3A FINE– TO MEDIUM–GRAINED SAND BEACHES
- 4 COARSE–GRAINED SAND BEACHES (NOT PRESENT)
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES
- 8D SHELTERED ROCKY RUBBLE SLOPES
- 9A SHELTERED TIDAL FLATS
- 10A SALT– AND BRACKISH–WATER MARSHES

N W E S

SCALE 1:87000

1 .5 0 1 KILOMETER

1 .5 0 1 MILE

Not For Navigation

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SEWARD (D-3), AK (1988) PWS-8

Prince William Sound - ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
134	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			HIGH	X	X	X								X	X	-	-	-	-
	Greater scaup			LOW				X	X	X	X	X	X				-	-	-	-
	Harlequin duck			MED				X	X	X	X	X	X				-	-	-	-
	Mallard			HIGH				X	X	X	X	X	X				-	-	-	-
	Mergansers			HIGH	X	X	X								X	X	-	-	-	-
	Scoters			MED	X	X	X								X	X	-	-	-	-
	Surf scoter			HIGH	X	X	X								X	X	-	-	-	-
139	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			HIGH	X	X	X								X	X	-	-	-	-
	Scoters			LOW	X	X	X								X	X	-	-	-	-
	Surf scoter			HIGH	X	X	X								X	X	-	-	-	-
140	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			MED	X	X	X								X	X	-	-	-	-
141	Goldeneye			LOW	X	X	X								X	X	-	-	-	-
	Mew gull			HIGH				X	X	X	X	X	X				-	-	-	-
	Scoters			LOW	X	X	X								X	X	-	-	-	-
142	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
143	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			HIGH	X	X	X								X	X	-	-	-	-
	Greater scaup			LOW				X	X	X	X	X	X				-	-	-	-
	Harlequin duck			LOW				X	X	X	X	X	X				-	-	-	-
144	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			HIGH	X	X	X								X	X	-	-	-	-
	Greater scaup			LOW				X	X	X	X	X	X				-	-	-	-
	Mew gull			LOW				X	X	X	X	X	X				-	-	-	-
	Pigeon guillemot			MED				X	X	X	X	X	X				-	-	-	-
	Shorebirds			MED			X	X	X	X	X	X	X	X	X		-	-	-	-
145	Goldeneye			HIGH	X	X	X								X	X	-	-	-	-
	Scoters			LOW	X	X	X								X	X	-	-	-	-
146	Goldeneye			LOW	X	X	X								X	X	-	-	-	-
	Greater scaup			LOW				X	X	X	X	X	X				-	-	-	-
	Harlequin duck			MED				X	X	X	X	X	X				-	-	-	-
147	Goldeneye			LOW	X	X	X								X	X	-	-	-	-
	Gulls			LOW				X	X	X	X	X	X				-	-	-	-
	Scoters			HIGH				X	X	X	X	X	X				-	-	-	-
148	Bald eagle			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Cormorant			MED				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			MED				X	X	X	X	X	X				-	-	-	-
	Goldeneye			MED	X	X	X								X	X	-	-	-	-
	Gulls			LOW				X	X	X	X	X	X				-	-	-	-
	Mew gull			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			LOW				X	X	X	X	X	X				-	-	-	-
	Scoters			LOW				X	X	X	X	X	X				-	-	-	-
149	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			LOW	X	X	X								X	X	-	-	-	-
	Gulls			LOW				X	X	X	X	X	X				-	-	-	-
	Harlequin duck			LOW				X	X	X	X	X	X				-	-	-	-
	Mew gull			MED				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
150	Goldeneye			LOW	X	X	X								X	X	-	-	-	-
	Greater scaup			LOW				X	X	X	X	X	X				-	-	-	-
	Mew gull			HIGH				X	X	X	X	X	X				-	-	-	-
	Murrelets			LOW				X	X	X	X	X	X				-	-	-	-
	Scoters			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
176	Goldeneye			LOW	X	X	X								X	X	-	-	-	-
319	Black oystercatcher			20						X	X	X	X				JUN-SEP	-	-	-
	Glaucous-winged gull			45						X	X	X	X				JUN-SEP	-	-	-
	Tufted puffin			60						X	X	X	X				JUN-SEP	-	-	-
320	Parakeet auklet			166						X	X	X	X				JUN-SEP	-	-	-
321	Arctic tern			30						X	X	X	X				JUN-SEP	-	-	-
323	Arctic tern			60						X	X	X	X				JUN-SEP	-	-	-
	Glaucous-winged gull			UNKNOWN						X	X	X	X				JUN-SEP	-	-	-
330	Mew gull			12						X	X	X	X				JUN-SEP	-	-	-
337	Aleutian tern			10						X	X	X	X				JUN-SEP	-	-	-
	Arctic tern			10						X	X	X	X				JUN-SEP	-	-	-
	Black oystercatcher			6						X	X	X	X				JUN-SEP	-	-	-
	Glaucous-winged gull			120						X	X	X	X				JUN-SEP	-	-	-
347	Arctic tern			18						X	X	X	X				JUN-SEP	-	-	-
362	Pigeon guillemot			17						X	X	X	X				JUN-SEP	-	-	-
363	Pigeon guillemot			14						X	X	X	X				JUN-SEP	-	-	-
365	Pigeon guillemot			8						X	X	X	X				JUN-SEP	-	-	-
366	Pigeon guillemot			10						X	X	X	X				JUN-SEP	-	-	-
368	Pigeon guillemot			9						X	X	X	X				JUN-SEP	-	-	-
372	Pigeon guillemot			7						X	X	X	X				JUN-SEP	-	-	-
373	Pigeon guillemot			11						X	X	X	X				JUN-SEP	-	-	-
544	Waterfowl												X	X	X		-	-	-	-
547	Waterfowl				X	X	X	X	X							X	-	-	-	-
548	Waterfowl				X	X	X	X	X				X	X	X	X	-	-	-	-
551	Waterfowl				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
552	Waterfowl				X	X	X	X	X	X	X	X				X	-	-	-	-
553	Waterfowl									X	X	X					-	-	-	-
594	Bald eagle			1 NEST	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	APR-MAY	MAY-JUN	AUG-AUG
671	Bald eagle			LOW				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			HIGH				X	X	X	X	X	X				-	-	-	-
	Common merganser			LOW				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Mew gull			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
690	Bald eagle			LOW				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			HIGH				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Kittlitz's murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
	Pigeon guillemot			LOW				X	X	X	X	X	X				-	-	-	-
	Red-necked (Northern) phalarope			LOW				X	X	X	X	X	X				-	-	-	-
691	Arctic tern			LOW				X	X	X	X	X	X				-	-	-	-
	Black oystercatcher			MED				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			HIGH				X	X	X	X	X	X				-	-	-	-
	Cormorant			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Glaucous-winged gull			HIGH				X	X	X	X	X	X				-	-	-	-
	Harlequin duck			HIGH				X	X	X	X	X	X				-	-	-	-
	Kittlitz's murrelet			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
	Pelagic cormorant			LOW				X	X	X	X	X	X				-	-	-	-
	Red-necked grebe			LOW	X	X	X								X	X	-	-	-	-
	Shorebirds			MED				X	X	X	X	X	X				-	-	-	-
	Surf scoter			LOW	X	X	X								X	X	-	-	-	-
	White-winged scoter			MED	X	X	X								X	X	-	-	-	-
784	Arctic tern			LOW				X	X	X	X	X	X				-	-	-	-
	Bald eagle			LOW				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			MED				X	X	X	X	X	X				-	-	-	-
	Common loon			LOW				X	X	X	X	X	X				-	-	-	-
	Common merganser			LOW				X	X	X	X	X	X				-	-	-	-
	Diving ducks			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			HIGH	X	X	X								X	X	-	-	-	-
	Grebes			LOW	X	X	X								X	X	-	-	-	-
	Gulls			LOW				X	X	X	X	X	X				-	-	-	-
	Harlequin duck			HIGH				X	X	X	X	X	X				-	-	-	-
	Mallard			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Mergansers			LOW	X	X	X								X	X	-	-	-	-
	Mew gull			HIGH				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
	Red-breasted merganser			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Red-necked grebe			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Scoters			HIGH	X	X	X								X	X	-	-	-	-

Prince William Sound - ESIMAP 8 cont.

BIOLOGICAL RESOURCES: cont.

BIRD: cont.

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Laying	Hatching	Fledging
785	Bald eagle			LOW				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			MED				X	X	X	X	X	X				-	-	-	-
	Common merganser			LOW				X	X	X	X	X	X				-	-	-	-
	Common murre			LOW				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Goldeneye			MED		X	X	X							X	X	-	-	-	-
	Harlequin duck			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			LOW				X	X	X	X	X	X				-	-	-	-
	Red-necked grebe			MED		X	X	X							X	X	-	-	-	-
	Surf scoter			HIGH		X	X	X							X	X	-	-	-	-
823	Bald eagle			LOW				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			MED				X	X	X	X	X	X				-	-	-	-
	Common merganser			LOW				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			MED				X	X	X	X	X	X				-	-	-	-
	Goldeneye			HIGH		X	X	X							X	X	-	-	-	-
	Grebes			LOW		X	X	X							X	X	-	-	-	-
	Kittlitz's murrelet			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
	Pigeon guillemot			LOW				X	X	X	X	X	X				-	-	-	-
	Red-breasted merganser			LOW		X	X	X							X	X	-	-	-	-
824	Black-legged kittiwake			MED				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Grebes			LOW		X	X	X							X	X	-	-	-	-
	Marbled murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Murrelets			LOW				X	X	X	X	X	X				-	-	-	-
825	Black-legged kittiwake			MED				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			MED				X	X	X	X	X	X				-	-	-	-
	Mew gull			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			LOW				X	X	X	X	X	X				-	-	-	-
	Pigeon guillemot			LOW				X	X	X	X	X	X				-	-	-	-
826	Bald eagle			LOW				X	X	X	X	X	X				-	-	-	-
	Black-legged kittiwake			HIGH				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Kittlitz's murrelet			LOW				X	X	X	X	X	X				-	-	-	-
	Marbled murrelet			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			MED				X	X	X	X	X	X				-	-	-	-
	Pigeon guillemot			LOW				X	X	X	X	X	X				-	-	-	-
	Surf scoter			MED		X	X	X							X	X	-	-	-	-
855	Black-legged kittiwake			LOW				X	X	X	X	X	X				-	-	-	-
	Fork-tailed storm-petrel			LOW				X	X	X	X	X	X				-	-	-	-
	Glaucous-winged gull			LOW				X	X	X	X	X	X				-	-	-	-
	Murrelets			LOW				X	X	X	X	X	X				-	-	-	-

FISH:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
3	Pink salmon (humpy)											X	X	X			AUG-OCT	-	-	-	AUG-OCT
5	Chum salmon (dog)					X	X	X	X	X							-	-	-	FEB-JUN	-
	Pink salmon (humpy)						X	X	X								-	-	-	MAR-MAY	-
6	Pink salmon (humpy)						X	X	X								-	-	-	MAR-MAY	-
18	Coho salmon (silver)								X	X	X	X					-	-	-	MAY-AUG	-
	Pink salmon (humpy)						X	X	X								-	-	-	MAR-MAY	-
	Sockeye salmon (red)								X	X	X	X					-	-	-	MAY-AUG	-
20	Chum salmon (dog)					X	X	X	X	X							-	-	-	FEB-JUN	-
	Pink salmon (humpy)											X	X	X			AUG-OCT	-	-	-	AUG-OCT
625	Arrowtooth flounder							X	X	X	X	X					-	-	-	-	APR-AUG
	Flathead sole								X	X	X	X	X	X	X	X	-	-	-	-	MAY-DEC
	Pacific cod									X	X	X	X	X	X	X	-	-	-	JUN-DEC	JUN-DEC
	Rock sole							X	X	X	X	X					-	-	-	-	APR-AUG
	Sablefish (blackcod)				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
	Sculpin				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Walleye pollock				X	X	X										-	-	-	-	JAN-MAR
	Yellowfin sole				X	X	X	X	X	X	X	X	X	X	X	X	MAY-AUG	JUN-AUG	JUN-OCT	JAN-DEC	MAY-AUG
877	Pacific herring										X						-	-	-	-	-
881	Pacific herring										X						-	-	-	-	-
	Pacific sand lance										X						-	-	-	-	-
885	Pacific herring									X	X						-	-	-	-	-

INVERTEBRATE:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Spawn/Mate	Eggs	Larvae	Juveniles	Adults
627	Tanner crab			MINOR	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUN	APR-SEP	-	JAN-DEC	JAN-DEC
628	Blue king crab			SIGNIFICAN	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	APR-JUL	-	JAN-DEC	JAN-DEC
630	Dungeness crab			GENERAL	X	X	X	X	X	X	X		X	X	X	X	MAY-JUL SE	JUN-JUL	-	SEP-JUL	SEP-JUL
																	P-DEC	SEP-SEP			
631	Golden king crab			SIGNIFICAN		X	X	X	X	X	X						FEB-AUG	-	-	-	FEB-AUG

MARINE MAMMAL:

RAR#	Species	S/F	T/E	Concen	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
134	Sea otter			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
139	Sea otter			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
141	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
142	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
143	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
144	Sea otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
145	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
146	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
147	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
148	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
149	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
150	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
176	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
539	Humpback whale	F	E					X	X	X	X	X	X				-	-	-	-
	Killer whale							X	X	X	X	X	X				-	-	-	-
563	Harbor seal			104	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
633	Harbor seal				X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
671	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
690	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
691	Sea otter			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
784	Sea otter			HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
785	Sea otter			LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
823	Sea otter			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
824	Sea otter			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-
826	Sea otter			MED	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-JUN	-

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HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Owner	Contact	Phone
3	AQUACULTURE			

HATCHERY:

HUN#	Name	Owner	Contact	Phone
8	Wally Noerenberg Salmon Hatchery	PRINCE WILLIAM SOUND AQUACULTURE CORP.	MARK SUMERVILLE	907-265-9618

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.