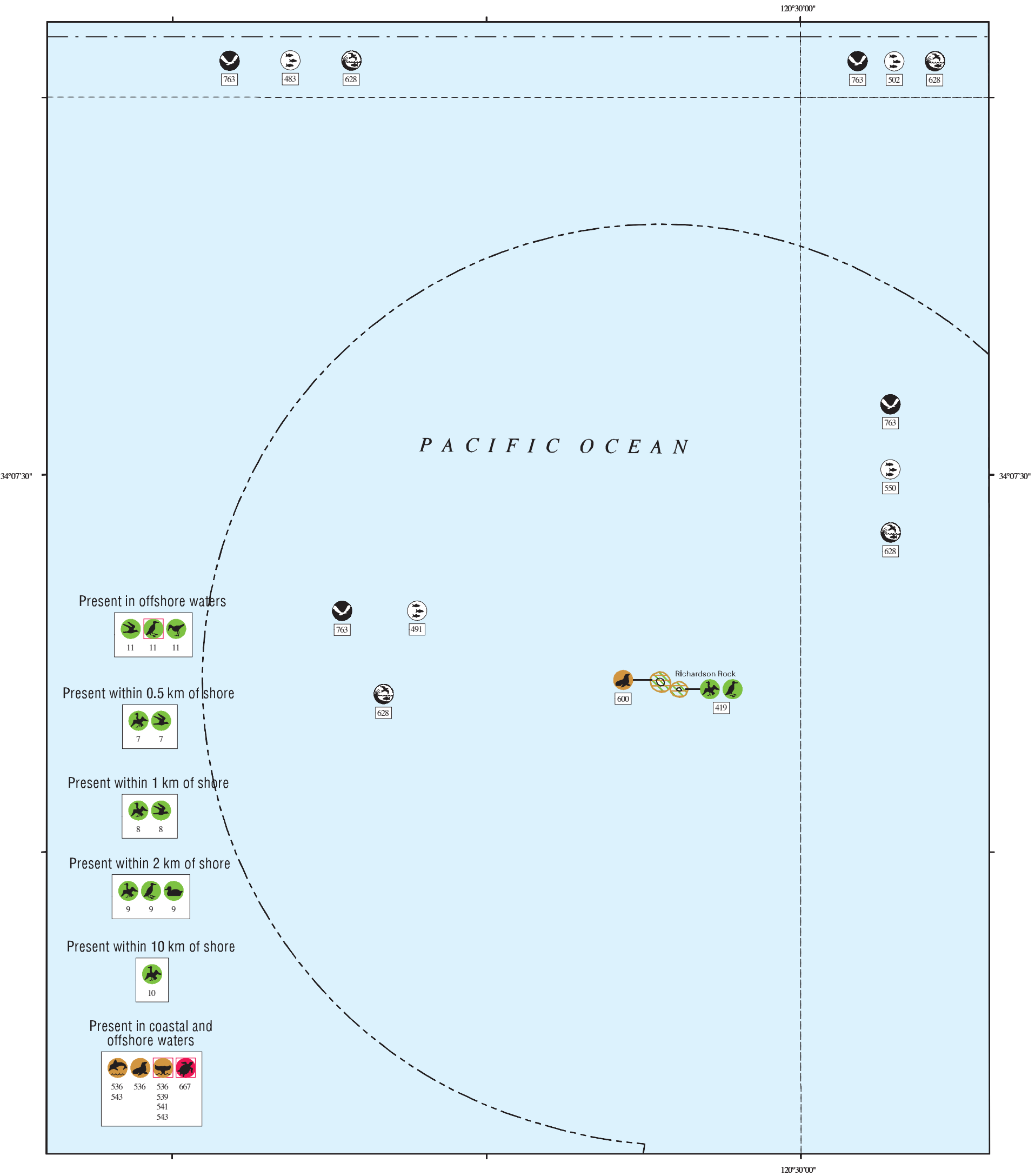


ENVIRONMENTAL SENSITIVITY INDEX MAP



SHORELINE HABITATS (ESI)

1A EXPOSED ROCKY SHORES	1B EXPOSED, SOLID, MAN-MADE STRUCTURES
2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK	3A FINE- TO MEDIUM-GRAINED SAND BEACHES
3B SCARPS AND STEEP SLOPES IN SAND	4 COARSE-GRAINED SAND BEACHES
5 MIXED SAND AND GRAVEL BEACHES	6A GRAVEL BEACHES
6D BOULDER RUBBLE	6B RIPRAP
7 EXPOSED TIDAL FLATS	8A SHELTERED ROCKY SHORES
8B SHELTERED, SOLID MAN-MADE STRUCTURES	8C SHELTERED RIPRAP
9A SHELTERED TIDAL FLATS	9B VEGETATED LOW BANKS
9C HYPERSALINE TIDAL FLATS	10A SALT-AND BRACKISH-WATER MARSHES
10B FRESHWATER MARSHES	10C SWAMPS
10D SCRUB-SHRUB WETLANDS	

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Southern California: ESIMAP 34

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
7	Common loon		X	X	X	X	X				X	X	X	X	-	-	-
	Elegant tern						X	X	X	X	X	X	X		-	-	-
	Pacific loon		X	X	X	X	X				X	X	X	X	-	-	-
8	California gull		X	X	X	X	X				X	X	X	X	-	-	-
	Double-crested cormorant		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Heermann's gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
9	Pigeon guillemot		X	X						X	X	X	X	X	-	-	-
	Surf scoter		X	X	X	X					X	X	X		-	-	-
	Western grebe		X	X	X	X					X	X	X		-	-	-
10	Brandt's cormorant		X	X	X	X					X	X	X	X	-	-	-
	Brown pelican					X	X	X	X	X	X	X	X		-	-	-
	Pelagic cormorant		X	X	X	X					X	X	X	X	-	-	-
11	Ashy storm-petrel	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-legged kittiwake		X	X	X	X	X						X	X	-	-	-
	Black-vented shearwater		X	X	X						X	X	X	X	-	-	-
	Cassin's auklet	C	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Northern fulmar		X	X									X		-	-	-
	Pink-footed shearwater					X	X			X	X				-	-	-
	Red phalarope					X	X			X	X	X	X		-	-	-
	Red-necked phalarope					X	X	X	X	X	X	X			-	-	-
	Rhinoceros auklet		X	X	X	X					X	X	X	X	-	-	-
	Sooty shearwater					X	X	X	X	X					-	-	-
	Western gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Xantus's murrelet	T			X	X	X								-	-	-
419	Brandt's cormorant	17	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	22	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
536	Bottlenose dolphin	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	California sea lion	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-SEP
	Dall's porpoise	PRIMARY	X	X	X	X	X							X	-	-	-	-
	Dall's porpoise	SECONDARY					X	X	X	X	X	X			-	-	-	-
	Killer whale	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Minke whale	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Northern right-whale dolphin	PRIMARY	X	X	X	X							X		-	-	-	-
	Northern right-whale dolphin	SECONDARY					X	X	X	X	X	X			-	-	-	-
	Pacific white-sided dolphin	PRIMARY	X	X	X	X	X						X		-	-	-	-
	Pacific white-sided dolphin	SECONDARY					X	X	X	X	X	X			-	-	-	-
	Risso's dolphin	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Short-beaked common dolphin	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Short-finned pilot whale	RARE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Striped dolphin	RARE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
539	Baird's beaked whale	SECONDARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Cuvier's beaked whale	SECONDARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mesoplodont beaked whales	SECONDARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sperm whale	E SECONDARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
541	Blue whale	E PRIMARY				X	X	X	X	X	X	X	X		-	-	-	-
	Blue whale	E RARE	X	X	X									X	-	-	-	-
	Bryde's whale	RARE				X	X	X	X	X	X	X	X		-	-	-	-
	Fin whale	E PRIMARY				X	X	X	X	X	X	X	X		-	-	-	-
	Fin whale	E SECONDARY	X	X	X								X		-	-	-	-
	Humpback whale	E PRIMARY				X	X	X	X	X	X	X	X		-	-	-	-
	Humpback whale	E SECONDARY	X	X	X								X		-	-	-	-
	North Pacific right whale	E RARE				X	X	X	X	X	X	X	X		-	-	-	-
543	Gray whale	PRIMARY	X	X	X	X									-	-	-	-
	Gray whale	RARE					X	X	X	X	X				-	-	-	-
	Gray whale	SECONDARY				X					X	X			-	-	-	-
	Long-beaked common dolphin	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
600	California sea lion	304 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-SEP

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting	Juveniles	Adults
667	Leatherback sea turtle	E PRIMARY				X	X	X	X	X					-	-	-	-	MAR-JUL

HUMAN USE RESOURCES:

FISHERY AREA:

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
483	California market squid	X	X	X	X	X	X	X	X	X	X	X	X
	California sheephead			X	X	X	X	X	X	X	X	X	X
	Dover sole	X	X	X	X	X	X	X	X	X	X	X	X
	Lingcod			X	X	X	X	X	X	X	X		
	Ocean whitefish			X	X	X	X	X	X	X	X	X	X
	Rockfish			X	X	X	X	X	X	X	X	X	X
	Sablefish	X	X	X	X	X	X	X	X	X	X	X	X
	Shark	X	X	X	X	X	X	X	X	X	X	X	X
	Spot prawn			X	X	X	X	X	X	X	X		
	Swordfish	X	X	X	X	X	X	X	X	X	X	X	X
	Thornyhead spp.	X	X	X	X	X	X	X	X	X	X	X	X
	Tuna	X	X	X	X	X	X	X	X	X	X	X	X
491	California market squid	X	X	X	X	X	X	X	X	X	X	X	X
	California sheephead			X	X	X	X	X	X	X	X	X	X
	California spiny lobster	X	X	X					X	X	X	X	
	Dover sole	X	X	X	X	X	X	X	X	X	X	X	X
	Lingcod			X	X	X	X	X	X	X	X		
	Ocean whitefish			X	X	X	X	X	X	X	X	X	X
	Ridgeback prawn	X	X	X	X					X	X	X	
	Rockfish			X	X	X	X	X	X	X	X	X	X
	Sea urchins	X	X	X	X	X	X	X	X	X	X	X	X
	Spot prawn			X	X	X	X	X	X	X	X		
	Tuna	X	X	X	X	X	X	X	X	X	X	X	X
502	Barred sand bass	X	X	X	X	X	X	X	X	X	X	X	X
	California halibut	X	X	X	X	X	X	X	X	X	X	X	X
	California market squid	X	X	X	X	X	X	X	X	X	X	X	X
	Dover sole	X	X	X	X	X	X	X	X	X	X	X	X
	Kelp bass	X	X	X	X	X	X	X	X	X	X	X	X
	Ridgeback prawn	X	X	X	X					X	X	X	
	Rockfish			X	X	X	X	X	X	X	X	X	X
	Sea cucumbers	X	X	X	X	X	X	X	X	X	X	X	X
	Sea urchins	X	X	X	X	X	X	X	X	X	X	X	X
	Shark	X	X	X	X	X	X	X	X	X	X	X	X
	Spot prawn			X	X	X	X	X	X	X	X		
	Swordfish	X	X	X	X	X	X	X	X	X	X	X	X
	Tuna	X	X	X	X	X	X	X	X	X	X	X	X

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.

Southern California: ESIMAP 34 (cont.)

HUMAN USE RESOURCES: (cont.)

FISHERY AREA: (cont.)

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
550	Barred sand bass	X	X	X	X	X	X	X	X	X	X	X	X
	California halibut	X	X	X	X	X	X	X	X	X	X	X	X
	California market squid	X	X	X	X	X	X	X	X	X	X	X	X
	California sheephead		X	X	X	X	X	X	X	X	X	X	X
	California spiny lobster	X	X	X					X	X	X	X	
	Dover sole	X	X	X	X	X	X	X	X	X	X	X	X
	Kelp bass	X	X	X	X	X	X	X	X	X	X	X	X
	Lingcod				X	X	X	X	X	X	X	X	X
	Northern anchovy	X	X	X	X	X	X	X	X	X	X	X	X
	Ocean whitefish			X	X	X	X	X	X	X	X	X	X
	Pacific angel shark	X	X	X	X	X	X	X	X	X	X	X	X
	Pacific bonito	X	X	X	X	X	X	X	X	X	X	X	X
	Pacific chub mackerel	X	X	X	X	X	X	X	X	X	X	X	X
	Pacific sardine	X	X	X	X	X	X	X	X	X	X	X	X
	Ridgeback prawn	X	X	X	X					X	X	X	
	Rock crabs	X	X	X	X	X	X	X	X	X	X	X	X
	Rockfish		X	X	X	X	X	X	X	X	X	X	X
	Sablefish	X	X	X	X	X	X	X	X	X	X	X	X
	Sea cucumbers	X	X	X	X	X	X	X	X	X	X	X	X
	Sea urchins	X	X	X	X	X	X	X	X	X	X	X	X
	Shark	X	X	X	X	X	X	X	X	X	X	X	X
	Sheep crab	X	X	X	X	X	X	X	X	X	X	X	X
	Spot prawn		X	X	X	X	X	X	X	X	X	X	
	Surfperch	X	X	X	X	X	X	X	X	X	X	X	X
	Swordfish	X	X	X	X	X	X	X	X	X	X	X	X
	Thornyhead spp.	X	X	X	X	X	X	X	X	X	X	X	X
	Tuna	X	X	X	X	X	X	X	X	X	X	X	X
	Warty sea cucumber	X	X	X	X	X	X	X	X	X	X	X	X
	White seabass	X	X	X	X	X	X	X	X	X	X	X	X
	Yellowtail	X	X	X	X	X	X	X	X	X	X	X	X

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
628	RICHARDSON ROCK MARINE RESERVE		

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
763	CHANNEL ISLANDS NMS	NOAA	805/382-6149