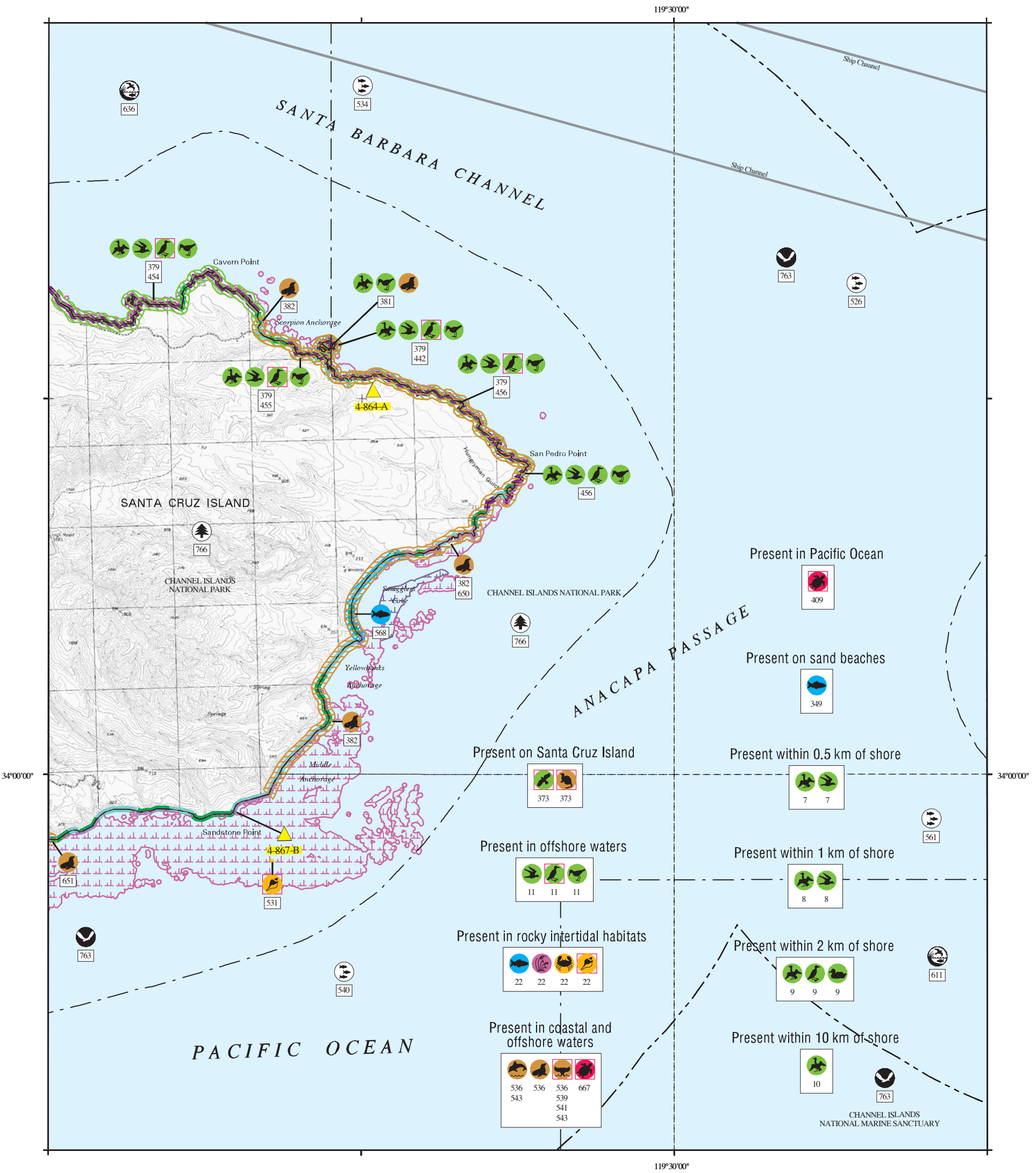
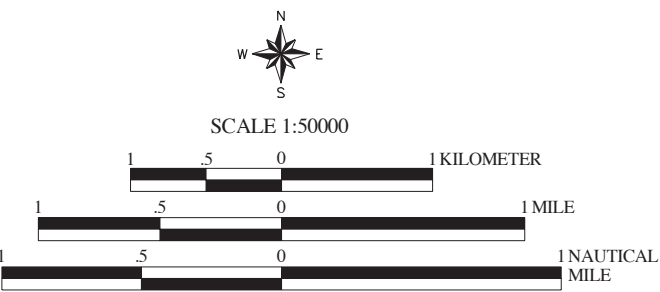


ENVIRONMENTAL SENSITIVITY INDEX MAP

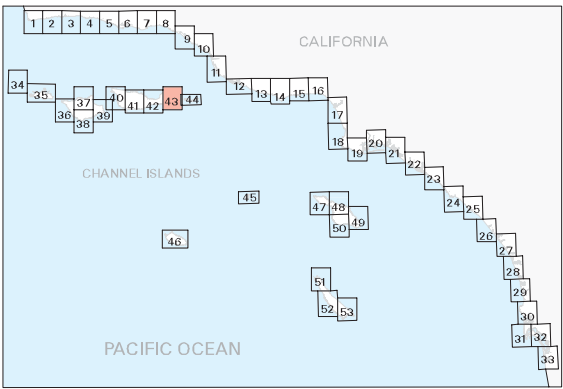


SHORELINE HABITATS (ESI)

- 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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National Ocean Service
Office of Response and Restoration
Emergency Response Division



Southern California: ESIMAP 43

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	-	-	-
	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	-	-	-
	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		-	-	-
	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				-	-	-
	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									-	-	-
373	Bald eagle	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Osprey		X	X	X	X				X	X	X	X	X	-	-	-
	Peregrine falcon		X	X	X	X					X	X	X	X	-	-	-
379	Xantus's murrelet	T 10-30	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JAN	-	-
381	Brown pelican							X	X	X	X	X			-	-	-
	Shorebirds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
442	Black oystercatcher	1	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brown pelican					X	X	X	X	X	X	X	X		-	-	-
	Cassin's auklet	C	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	-
	Pelagic cormorant	20	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	28	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	154	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
454	Ashy storm-petrel	C	X	X	X	X	X	X	X	X	X	X	X	X	JAN-SEP	-	-
	Black oystercatcher	2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	34	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pelagic cormorant	15	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	82	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	104	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
455	Black oystercatcher	4	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	3	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pelagic cormorant	15	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	91	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	10	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
456	Black oystercatcher	5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	14	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pelagic cormorant	112	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	34	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	18	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
22	Rocky intertidal fish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
349	California grunion	POSSIBLE RUNS	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC
568	California grunion	RUNS REPORTED	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
22	Rocky intertidal plants		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
22	Black abalone	E POTENTIAL	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
	Rocky intertidal invertebrates		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
531	Pink abalone	C	X	X	X	X	X	X	X	X	X	X	X	X	MAR-NOV	-	-	-	-

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
381	California sea lion		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-SEP
	Pacific harbor seal		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL
382	California sea lion		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-SEP
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				-	-	-	-
	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				-	-	-	-
	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	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	-	-	-	-
650	Pacific harbor seal	8 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL
651	Pacific harbor seal	148-171 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL

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 43 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

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

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
373	Santa Cruz island fox	T E	X X X X X X X X X X X

HUMAN USE RESOURCES:

ACP SENSITIVE SITES:

ACP SITE#	Name	Contact
4-864-A	Santa Cruz Island, Scorpions Harbor area	CDF&G OSPR
4-867-B	Santa Cruz Island, Smuggler’s Cove	CDF&G OSPR

FISHERY AREA:

HUN#	Name	J F M A M J J A S O N D
526	Barred sand bass	X X X X X X X X X X X
	Cabazon	X X X X X X X X X X
	California halibut	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
	California scorpionfish	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 X X X
	Dover sole	X X X X X X X X X X X
	Flatfish	X X X X X X X X X X X
	Kelp bass	X X X X X X X X X X X
	Lingcod	X X X X X X X X X X
	Northern anchovy	X X X X X X X X X X X
	Ocean whitefish	X X X X X X X X X X X
	Pacific angel shark	X X X X X X X X X X X
	Pacific bonito	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
	Pacific sanddab	X X X X X X X X X X X
	Pacific sardine	X X X X X X X X X X X
	Ridgeback prawn	X X X X X X X X X X
	Rock crabs	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
	Sea cucumbers	X X X X X X X X X X X
	Sea urchins	X X X X X X X X X X X
	Shark	X X X X X X X X X X X
	Sheep crab	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
	Swordfish	X X X X X X X X X X X
	Thornyhead spp.	X X X X X X X X X X X
	Tuna	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
	White seabass	X X X X X X X X X X X
	Yellowtail	X X X X X X X X X X X
534	Barred sand bass	X X X X X X X X X X X
	Cabazon	X X X X X X X X X X X
	California halibut	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
	California scorpionfish	X X X X X X X X X X X
	California sea cucumber	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 X X X
	Dover sole	X X X X X X X X X X X
	Kelp bass	X X X X X X X X X X X
	Lingcod	X X X X X X X X X X
	Northern anchovy	X X X X X X X X X X X
	Ocean whitefish	X X X X X X X X X X X
	Pacific angel shark	X X X X X X X X X X X
	Pacific bonito	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
	Pacific sanddab	X X X X X X X X X X X
	Pacific sardine	X X X X X X X X X X X
	Ridgeback prawn	X X X X X X X X X X
	Rock crabs	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
	Sea cucumbers	X X X X X X X X X X X
	Sea urchins	X X X X X X X X X X X
	Shark	X X X X X X X X X X X
	Sheep crab	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
	Swordfish	X X X X X X X X X X X
	Thornyhead spp.	X X X X X X X X X X X
	Tuna	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
	White seabass	X X X X X X X X X X X
	Yellowtail	X X X X X X X X X X X
540	Barred sand bass	X X X X X X X X X X X
	California halibut	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
	California scorpionfish	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 X X X
	Dover sole	X X X X X X X X X X X
	Kelp bass	X X X X X X X X X X X
	Lingcod	X X X X X X X X X X
	Northern anchovy	X X X X X X X X X X X
	Ocean whitefish	X X X X X X X X X X X
	Pacific angel shark	X X X X X X X X X X X
	Pacific bonito	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
	Pacific sanddab	X X X X X X X X X X X
	Pacific sardine	X X X X X X X X X X X
	Ridgeback prawn	X X X X X X X X X X
	Rock crabs	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
	Sea cucumbers	X X X X X X X X X X X
	Sea urchins	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 43 (cont.)

HUMAN USE RESOURCES: (cont.)

FISHERY AREA: (cont.)

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
540	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			
	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
561	Barred sand bass	X	X	X	X	X	X	X	X	X	X	X	X
	Cabazon		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 scorpionfish	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	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	X
	Pacific angel shark	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 sanddab	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			
	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
611	FOOTPRINT MARINE RESERVE		
636	SCORPION MARINE RESERVE		

MARINE SANCTUARY:

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

NATIONAL PARK:

HUN#	Name	Contact	Phone
766	CHANNEL ISLANDS NATIONAL PARK	NATIONAL PARK SERVICE	805/658-5700