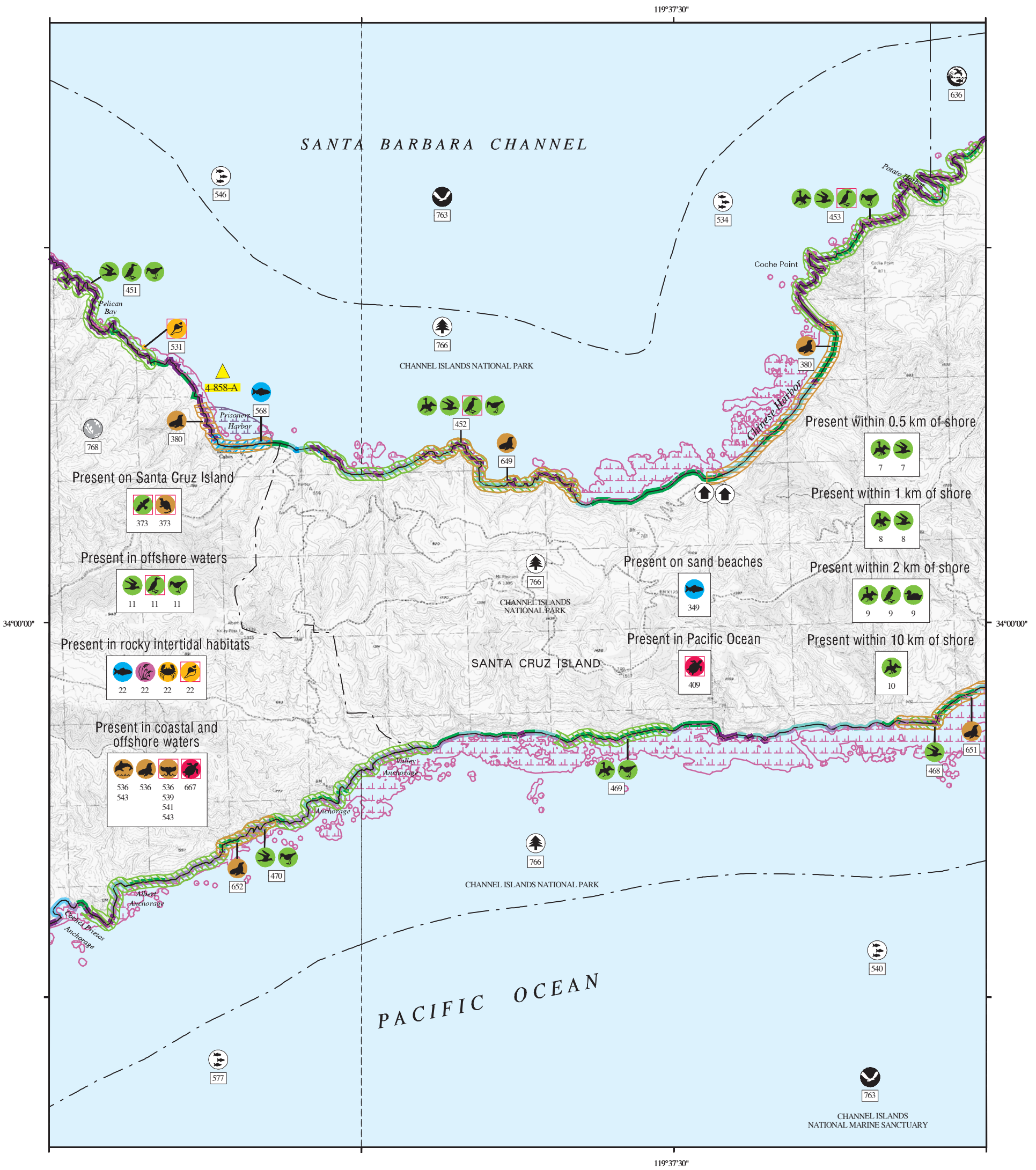
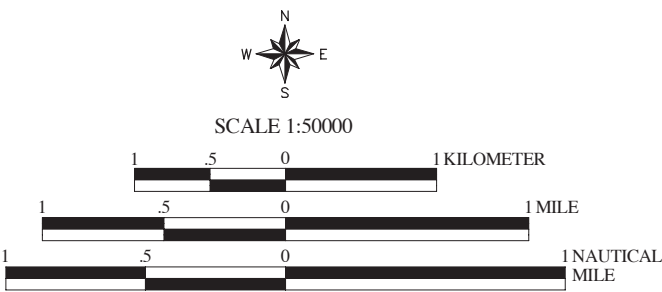


ENVIRONMENTAL SENSITIVITY INDEX MAP



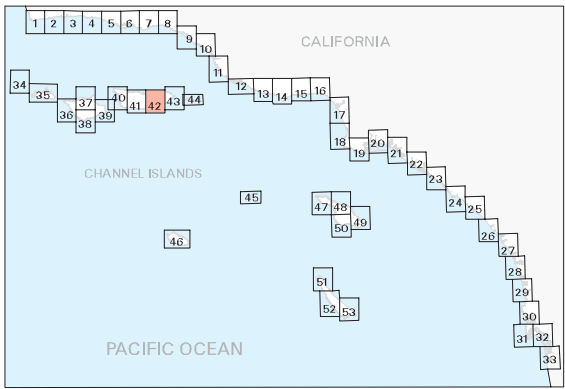
SHORELINE HABITATS (ESI)

- 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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Office of Response and Restoration
Emergency Response Division



Southern California: ESIMAP 42

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	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		-	-	-
451	Black oystercatcher	5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	2	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	14	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
452	Ashy storm-petrel	C	X	X	X	X	X	X	X	X	X	X	X	X	JAN-SEP	-	-
	Black oystercatcher	9	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	2	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	20	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	-	-
	Xantus's murrelet	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JAN	-	-
453	Black oystercatcher	11	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	20	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pelagic cormorant	13	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Pigeon guillemot	88	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	144	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
	Xantus's murrelet	T 30-90	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JAN	-	-
468	Western gull	4	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
469	Black oystercatcher	5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	2	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
470	Black oystercatcher	5	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	22	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
380	California sea lion	OCCASIONAL	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
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	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	X			-	-	-	-
	Pacific white-sided dolphin	PRIMARY	X	X	X	X					X				-	-	-	-
	Pacific white-sided dolphin	SECONDARY				X	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			-	-	-	-
	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										-	-	-	-
	Gray whale	RARE				X	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	-	-	-	-
649	Pacific harbor seal	71-319 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
652	Pacific harbor seal	5-24 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Internesting	Juveniles	Adults
409	Loggerhead sea turtle	T RARE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
667	Leatherback sea turtle	E PRIMARY	X	X	X	X	X								-	-	-	-	MAR-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 42 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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	X

HUMAN USE RESOURCES:

ACP SENSITIVE SITES:

ACP SITE#	Name	Contact
4-858-A	Santa Cruz Island, Prisoners Harbor	CDF&G OSPR

FISHERY AREA:

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
534	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 sea cucumber	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	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 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 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	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	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
540	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 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	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 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 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	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	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
546	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	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 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 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	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	X
	Surfperch	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

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 42 (cont.)

HUMAN USE RESOURCES: (cont.)

FISHERY AREA: (cont.)

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
577	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 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	
	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	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 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 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
	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
636	SCORPION MARINE RESERVE		

MARINE SANCTUARY:

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NATIONAL PARK:

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NATURE CONSERVANCY:

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