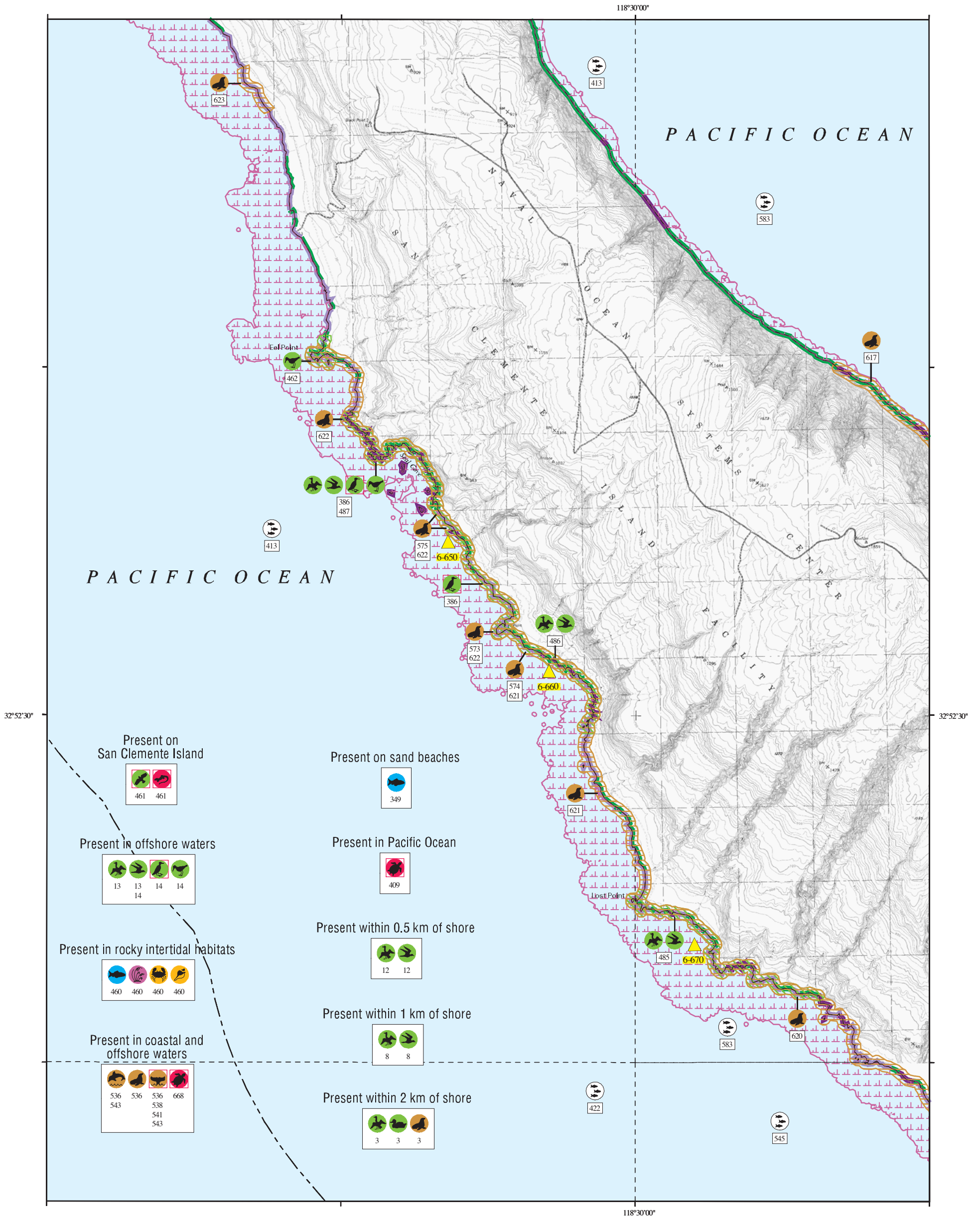


# ENVIRONMENTAL SENSITIVITY INDEX MAP



Present on San Clemente Island

461	461

Present on sand beaches

349

Present in offshore waters

13	13	14	14
14			

Present in Pacific Ocean

409

Present in rocky intertidal habitats

460	460	460	460

Present within 0.5 km of shore

12	12

Present within 1 km of shore

8	8

Present in coastal and offshore waters

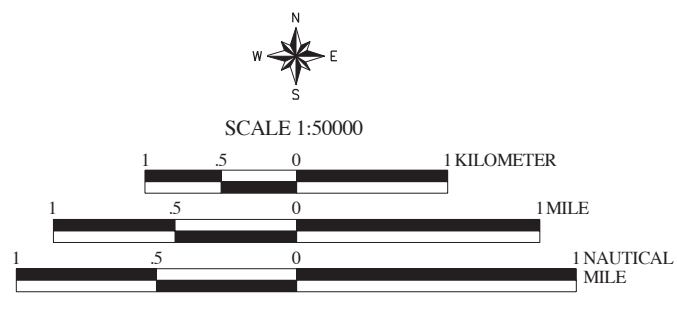
536	536	536	668
543		538	
		541	
		543	

Present within 2 km of shore

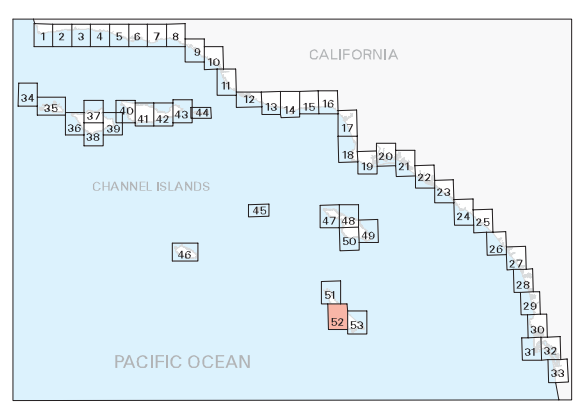
3	3	3

## 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



Not For Navigation  
 Published: January 2010  
 Published at Seattle, Washington  
 National Oceanic and Atmospheric Administration  
 National Ocean Service  
 Office of Response and Restoration  
 Emergency Response Division



**Southern California: ESIMAP 52**

**BIOLOGICAL RESOURCES:**

**BIRD:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
3	Surf scoter		X	X	X	X	X					X	X	X	-	-	-
	Western grebe		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	-	-	-
12	Common tern				X	X	X	X	X	X	X	X	X	X	-	-	-
	Elegant tern				X	X	X	X	X	X	X	X	X	X	-	-	-
	Pacific loon		X	X	X	X	X				X	X	X	X	-	-	-
13	Brandt's cormorant		X	X	X	X	X				X	X	X	X	-	-	-
	Brown pelican				X	X	X	X	X	X	X	X	X	X	-	-	-
	Western gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
14	Alcids				X	X	X	X	X						-	-	-
	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	-	-	-
	Bonaparte's gull		X	X	X	X					X	X	X	X	-	-	-
	Brown booby		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Cassin's auklet	C	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Common tern				X	X	X	X	X	X	X	X	X	X	-	-	-
	Jaegers		X	X	X	X	X	X	X	X	X	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							-	-	-
	Xantus's murrelet	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JAN	-	-
386	Xantus's murrelet	T	10-50	X	X	X	X	X	X	X	X	X	X	X	MAR-JAN	-	-
461	Bald eagle	E		X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	-	-
	Osprey			X	X	X	X				X	X	X	X	-	-	-
	Peregrine falcon			X	X	X					X	X	X	X	-	-	-
462	American oystercatcher			X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black oystercatcher			X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
485	Brandt's cormorant	73	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Western gull	4	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
486	Double-crested cormorant	3	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-
	Western gull	14	X	X	X	X	X	X	X	X	X	X	X	X	FEB-SEP	-	-
487	Ashy storm-petrel	C	10S	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	63	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
	Double-crested cormorant	58	X	X	X	X	X	X	X	X	X	X	X	X	MAR-MAY	-	-
	Western gull	136	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
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
460	Rocky intertidal fish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-

**HABITAT:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
460	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
460	Abalone	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	-	-	-	-	-

**MARINE MAMMAL:**

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
3	Pacific harbor seal	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
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						-	-	-	-
	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						-	-	-	-
	Pacific white-sided dolphin	PRIMARY	X	X	X	X					X				-	-	-	-
	Pacific white-sided dolphin	SECONDARY			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	-	-	-	-
538	Baird's beaked whale	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Cuvier's beaked whale	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Mesoplodont beaked whales	PRIMARY	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sperm whale	E PRIMARY	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	X	X	X	-	-	-	-
	Blue whale	E RARE	X	X	X						X				-	-	-	-
	Bryde's whale	RARE			X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Fin whale	E PRIMARY			X	X	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	X	X	-	-	-	-
	Humpback whale	E SECONDARY	X	X	X						X				-	-	-	-
	North Pacific right whale	E RARE			X	X	X	X	X	X	X	X	X	X	-	-	-	-
543	Gray whale	PRIMARY	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	-	-	-	-
573	Northern elephant seal	98 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR	MAR-AUG
574	Northern elephant seal	24 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	DEC-MAR	MAR-AUG
575	Northern elephant seal	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAR-AUG
617	Pacific harbor seal	1-12 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL
620	Pacific harbor seal	52 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL
621	California sea lion	3432 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-AUG	AUG-SEP
	Pacific harbor seal	23-35 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL
622	California sea lion	792 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JUN-AUG	AUG-SEP
623	Pacific harbor seal	13 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	-	-	-	-	-
461	Island night lizard	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-	-	-
668	Leatherback sea turtle	E SECONDARY			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 52 (cont.)**

**HUMAN USE RESOURCES:**

**ACP SENSITIVE SITES:**

ACP SITE#	Name	Contact
6-650	Seal Cove to Mail Point	CDF&G OSPR
6-660	Mail Point to 1 NM SE	CDF&G OSPR
6-670	.8 to 1.9 NM SE of Lost Point	CDF&G OSPR

**FISHERY AREA:**

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
413	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
	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
	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
	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
	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	
422	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
	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
	Northern anchovy	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
	Sablefish	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
	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	
545	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
	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
	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
	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
	Rock crabs	X	X	X	X	X	X	X	X	X	X	X	X
	Rockfish				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	
583	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
	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
	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
	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	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
	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
	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

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 52 (cont.)

HUMAN USE RESOURCES: (cont.)

FISHERY AREA: (cont.)

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
583	Tuna	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