

ENVIRONMENTAL SENSITIVITY INDEX MAP

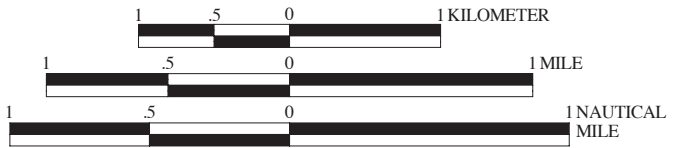


SHORELINE HABITATS (ESI)

- 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

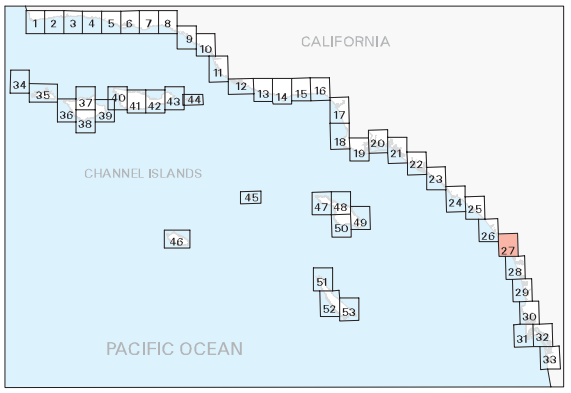


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Office of Response and Restoration
Emergency Response Division



SAN LUIS REY, CALIF. (1975)
OCEANSIDE, CALIF. (1975)

ESI-27

Southern California: ESIMAP 27

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
2	California gull		X X X X X X X X X	-	-	-
	Caspian tern		X X X X X X X X X X X	-	-	-
	Double-crested cormorant		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	-	-	-
3	Surf scoter		X X X X X X X X	-	-	-
	Western grebe		X X X X X X X X	-	-	-
5	Brant	C	X X X X X X X X	-	-	-
	Elegant tern		X X X X X X X X X	-	-	-
	Forster's tern		X X X X X X X X X X X	-	-	-
	Least tern		X X X X X X X X	-	-	-
	Pacific loon		X X X X X X X X X	-	-	-
	Red-throated loon		X X X X X X X	-	-	-
	Ring-billed gull		X X X X X X X X X	-	-	-
	Royal tern		X X X X X X X X X X X	-	-	-
6	Brandt's cormorant		X X X X X X X X X	-	-	-
	Brown pelican		X X X X X X X X X X X	-	-	-
	Western gull		X X X X X X X X X X X	-	-	-
209	Western snowy plover	C T 34-127 BIRDS	X X X X X X X	MAR-SEP	-	-
215	Bald eagle	E	X X X X X X X X X X X	-	-	-
	Brown pelican	0-99 BIRDS	X X X X X X X X X	-	-	-
	Osprey		X X X X X X X X X X X	-	-	-
	Western snowy plover	C T	X X X X X X X X X X X	-	-	-
	Yellow-billed cuckoo	E	X X X X X X X X	-	-	-
216	Hérons		X X X X X X X X X X X X	MAR-SEP	-	-
217	Bald eagle	E	X X X X X X X X X X X X	-	-	-
	Brown pelican	12-26 BIRDS	X X X X X X X X	-	-	-
	Cormorants		X X X X X X X X X X X	-	-	-
	Grebes		X X X X X X X X X	-	-	-
	Gulls		X X X X X X X X X X X X	-	-	-
	Osprey		X X X X X X X X X X X	-	-	-
	Scoters		X X X X X X X X X	-	-	-
	Terns		X X X X X X X X X X X X	-	-	-
218	Bald eagle	E	X X X X X X X X X X X X	-	-	-
	Brown pelican		X X X X X X X X X	-	-	-
	Canvasback		X X X X X X X X X	-	-	-
	Clark's grebe		X X X X X X X X X	-	-	-
	Ducks		X X X X X X X X X X X	-	-	-
	Hérons		X X X X X X X X X X X X	MAR-SEP	-	-
	Osprey		X X X X X X X X X X X	-	-	-
	Redhead		X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X	-	-	-
	Western grebe		X X X X X X X X X X	-	-	-
219	Bald eagle	E	X X X X X X X X X X X X	-	-	-
	Black turnstone		X X X X X X X X X X	-	-	-
	Black-bellied plover		X X X X X X X X X X	-	-	-
	Diving ducks		X X X X X X X X X	-	-	-
	Osprey		X X X X X X X X X X X	-	-	-
	Ruddy turnstone		X X X X X X X X X	-	-	-
	Wandering tattler		X X X X X X X X X	-	-	-
220	Bald eagle	E	X X X X X X X X X X X X	-	-	-
	Brown pelican	38-380 BIRDS	X X X X X X X X X	-	-	-
	California least tern	E E	X X X X X X X X	-	-	-
	Osprey		X X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X	-	-	-
	Western snowy plover	C T	X X X X X X X X X X X	-	-	-
221	Black turnstone		X X X X X X X X X X X	-	-	-
	Black-bellied plover		X X X X X X X X X X	-	-	-
	Brown pelican	9-284 BIRDS	X X X X X X X X X	-	-	-
	Ruddy turnstone		X X X X X X X X X	-	-	-
	Wandering tattler		X X X X X X X X X	-	-	-
222	California least tern	E E	X X X X X X X X X	APR-SEP	-	-
223	Western snowy plover	C T 0-4 BIRDS	X X X X X X X X X X X	-	-	-
224	Coastal California gnatcatcher	T	X X X X X X X X X X X X	MAR-OCT	-	-
	Least Bell's vireo	E E 100S OF PAIRS	X X X X X X X X	MAR-AUG	-	-
228	Least Bell's vireo	E E	X X X X X X X X	MAR-AUG	-	-
229	California least tern	E E 1484 PAIRS	X X X X X X X X	APR-SEP	-	-
547	Belding's savannah sparrow	E	X X X X X X X X X X X X	MAR-MAY	-	-
548	Light-footed clapper rail	E E	X X X X X X X X X X X X	FEB-JUL	-	-

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
21	Tidewater goby	C E	X X X X X X X X X X X X	APR-JUN	-	-	-	-
199	California grunion	POTENTIAL	X X X X X X X X X X X X	MAR-AUG	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC
225	Steelhead	C E	X X X X X X X X X X X X	DEC-APR	JAN-MAY	-	JAN-DEC	DEC-APR
228	Steelhead	C E	X X X X X X X X X X X X	DEC-APR	JAN-MAY	-	JAN-DEC	DEC-APR
237	California grunion	CONSISTENT LARGE RUN	X X X X X X X X X X X X	MAR-AUG	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC
566	California grunion	OCCASIONAL LARGE RUN	X X X X X X X X X X X X	MAR-AUG	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC
567	California grunion	CONSISTENT RUNS	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
226	Brand's star phacelia		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	-	-	-	-
534	Bottlenose dolphin	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 X X X	-	-	-	-
	Dall's porpoise	SECONDARY	X X 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 X X X X X X	-	-	-	-
	Northern right-whale dolphin	SECONDARY	X X X X X X X X X X	-	-	-	-
	Pacific white-sided dolphin	PRIMARY	X X X X X X X X X X X	-	-	-	-
	Pacific white-sided dolphin	SECONDARY	X X X 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	-	-	-	-

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 27 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
542	Blue whale	E PRIMARY	X X X	-	-	-	-
	Blue whale	E RARE	X X X	X	-	-	-
	Blue whale	E SECONDARY	X	X X X X	-	-	-
	Bryde's whale	RARE	X X X X X X X X X X X	-	-	-	-
	Fin whale	E RARE	X X X X X X X X X X X	-	-	-	-
	Humpback whale	E RARE	X X X X X X X X X X X	-	-	-	-
	North Pacific right whale	E RARE	X X X 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	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interinteresting	Juveniles	Adults
225	Arroyo toad	C E	X X X X X X X	MAR-JUL	-	-	-	-
409	Loggerhead sea turtle	T RARE	X X X X X X X X X X X	-	-	-	-	-
668	Leatherback sea turtle	E SECONDARY	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
557	Pacific pocket mouse	C E	X X X X X X X X X X X

HUMAN USE RESOURCES:

ACP SENSITIVE SITES:

ACP SITE#	Name	Contact
6-145	Santa Margarita River	CDF&G OSPR
6-150	San Luis Rey River	CDF&G OSPR
6-152	Loma Alta Creek	CDF&G OSPR
6-155	Agua Hedionda Lagoon	CDF&G OSPR

ACCESS:

HUN#	Name	Contact	Phone
201	SD-B-1509 CAMP PENDLETON	COMMAND DUTY OFFICER CAMP PENDLETON	760/725-5061
202	SD-C-1014 SAN LUIS REY RIVER	CITY OF OCEANSIDE	760/435-3065
203	SD-C-1024 OCEANSIDE NORTH OF PIER	CITY OF OCEANSIDE	760/435-3065
204	SD-C-1034 OCEANSIDE PIER (SOUTH)	CITY OF OCEANSIDE	760/435-3065
205	SD-C-1044 OCEANSIDE CITY BEACH	CITY OF OCEANSIDE	760/435-3065
206	SD-C-1054 BUCCANEER BEACH PARK	CITY OF OCEANSIDE	760/435-3065
207	SD-C-1064 OCEANSIDE CITY BEACH	CITY OF OCEANSIDE	760/435-3065
208	SD-C-1074 BUENA VISTA CREEK		
209	SD-C-2016 CARLSBAD STATE BEACH	CARLSBAD STATE BEACH	760/438-3143

AIRPORT:

HUN#	Name	Contact	Phone
341	OCEANSIDE MUNICIPAL		760/435-5189

AQUACULTURE:

HUN#	Name	Contact	Phone
347	AQUACULTURE SITE		

BOAT RAMP:

HUN#	Name	Contact	Phone
357	AGUA HEDIONDA LAGOON	CABRILLO POWER	760/268-4000
380	OCEANSIDE	OCEANSIDE HARBOR	760/435-4000

CRITICAL HABITAT:

HUN#	Name	Contact	Phone
393	CRITICAL HABITAT: ARROYO TOAD	U.S. FISH AND WILDLIFE SERVICE	805/644-1766
395	CRITICAL HABITAT: LEAST BELL'S VIREO	U.S. FISH AND WILDLIFE SERVICE	805/644-1766
397	CRITICAL HABITAT: SAN DIEGO FAIRY SHRIMP	U.S. FISH AND WILDLIFE SERVICE	760/431-9440

FISHERY AREA:

HUN#	Name	J F M A M J J A S O N D
533	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
	California spiny lobster	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
	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
	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
	Rock crabs	X 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
	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
	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
	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
571	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 sheephead	X X X X X X X X X X
	California spiny lobster	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
	Northern anchovy	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 27 (cont.)

HUMAN USE RESOURCES: (cont.)

FISHERY AREA: (cont.)

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
571	Ocean whitefish			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
	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 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			
	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
	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
592	AGUA HEDIONDA LAGOON ER	CDFG RESERVE MANAGER	858/467-4249
593	AGUA HEDIONDA LAGOON MARINE RESERVE	CAL NATURAL RESOURCES AGENCY	916/654-1885
602	BUENA VISTA CREEK ER	CDFG RESERVE MANAGER	858/467-4249
603	BUENA VISTA LAGOON ER	CDFG RESERVE MANAGER	858/467-4249

MARINA:

HUN#	Name	Contact	Phone
661	CALIFORNIA WTR SPTS/SNUG HBR MARINA	M&M RUSING	760/434-3089
685	DEL MAR MARINA	MARINE CORPS COMMUNITY SERVICE	760/725-2820
725	OCEANSIDE SMALL CRAFT HARBOR	CITY OF OCEANSIDE	760/435-4000

PARK:

HUN#	Name	Contact	Phone
780	CARLSBAD SB		760/438-3143
814	SAN DIEGO DISTRICT OFFICE BLDG	SAN DIEGO COAST DIST., CA STATE PARKS	619/688-3260
821	SOUTH CARLSBAD SB	SOUTH CARLSBAD STATE BEACH	760/438-3143

WATER INTAKE:

HUN#	Name	Contact	Phone
871	ENCINA DESAL PLANT	CARLSBAD DESAL PROJECT	760/438-1440
872	ENCINA POWER PLANT	CABRILLO POWER I LLC	
891	WATER INTAKE - HATCHERY	DON KENT	619/226-3870
893	WATER INTAKE - POWER PLANT		619/931-7223