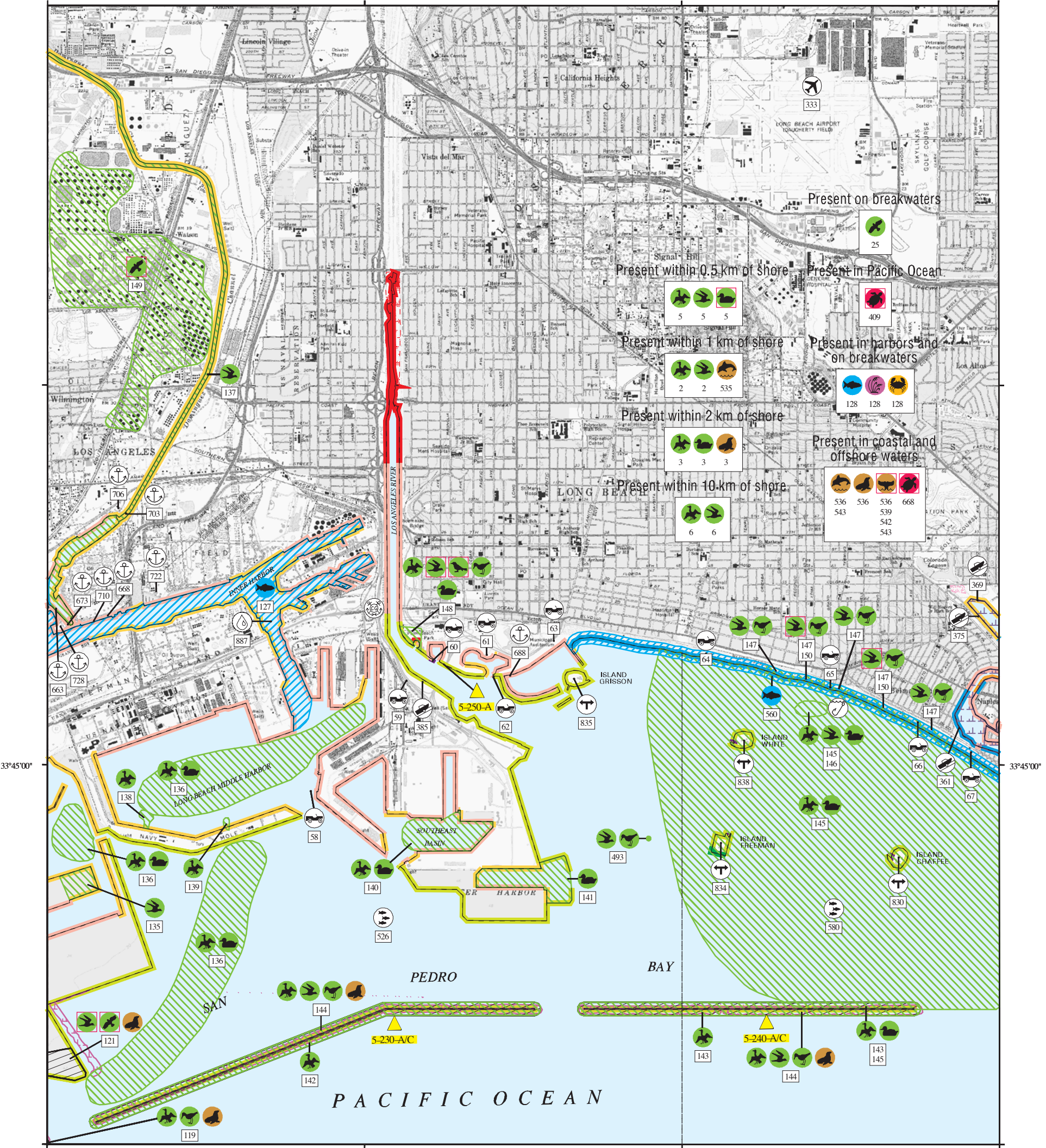


ENVIRONMENTAL SENSITIVITY INDEX MAP

118°15'00"

18°07'30"



118°15'00"

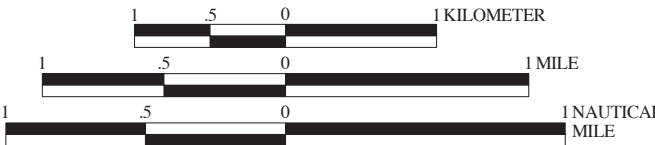
118°07'30"

SHORELINE HABITATS (EST)

- | | |
|---|---|
|  | 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 HYPERHALINE TIDAL FLATS |
|  |  10A SALT-AND BRACKISH-WATER MARSHES |
|  | 10B FRESHWATER MARSHES |
|  |  10C SWAMPS |
|  |  10D SCRUB-SHRUB WETLANDS |

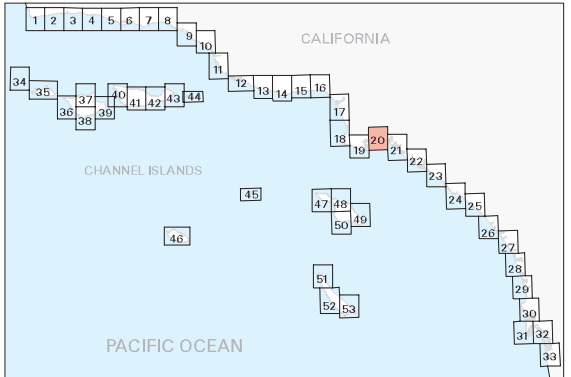


SCALE 1:50000



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National Ocean Service
Office of Response and Restoration
Emergency Response Division



LONG BEACH, CALIF. (1981) ESI-20

Southern California: ESIMAP 20

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	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	-	-	-
3	Surf scoter		X	X	X	X						X	X	X	-	-	-
	Western grebe		X	X	X	X						X	X	X	-	-	-
5	Brant	C	X	X	X	X	X					X	X		-	-	-
	Elegant tern						X	X	X	X	X	X	X	X	-	-	-
	Forster's tern		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Least tern			X	X	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		-	-	-
	Ring-billed gull		X	X	X	X					X	X	X	X	-	-	-
	Royal tern		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
6	Brandt's cormorant		X	X	X	X					X	X	X	X	-	-	-
	Brown pelican		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Western gull		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
25	Peregrine falcon		X	X	X	X					X	X	X	X	-	-	-
119	Black oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brown pelican	17-370 BIRDS						X	X	X	X	X			-	-	-
	Cormorants		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
121	Burrowing owl	C	X	X	X									X	-	-	-
	California least tern	E E 1000 BIRDS		X	X	X	X	X	X	X	X				APR-SEP	-	-
135	Caspian tern		X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	-	-
	Elegant tern			X	X	X	X	X	X	X	X				MAR-JUL	-	-
	Royal tern			X	X	X	X	X	X	X	X				MAR-SEP	-	-
136	Ducks		X	X	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		-	-	-
137	California gull	HIGH	X	X	X	X					X	X	X	X	-	-	-
	Western gull	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
138	Brandt's cormorant	75-100 NESTS	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
139	Pelagic cormorant		X	X	X	X	X	X	X	X	X	X	X	X	APR-JUN	-	-
140	Clark's grebe		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		-	-	-
141	Surf scoter	HIGH	X	X	X	X					X	X	X		-	-	-
142	Brown pelican	92-335 BIRDS					X	X	X	X	X				-	-	-
143	Brown pelican	69-506 BIRDS					X	X	X	X	X				-	-	-
144	Black oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Black turnstone		X	X	X	X				X	X	X	X	X	-	-	-
	Black-bellied plover		X	X	X	X				X	X	X	X	X	-	-	-
	Cormorants		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Ruddy turnstone			X	X		X	X	X						-	-	-
	Wandering tattler			X	X										-	-	-
145	Loons		X	X	X	X				X	X	X	X		-	-	-
	Surf scoter	100S	X	X	X	X					X	X	X		-	-	-
	Western grebe	1000S	X	X	X	X					X	X	X		-	-	-
146	Gulls	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
147	Black turnstone		X	X	X	X				X	X	X	X	X	-	-	-
	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Least sandpiper		X	X	X	X				X	X	X	X	X	-	-	-
	Marbled godwit		X	X	X	X				X	X	X	X	X	-	-	-
	Ruddy turnstone			X	X		X	X	X						-	-	-
	Western sandpiper		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Whimbrel		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Willet		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
148	Belding's savannah sparrow	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown pelican						X	X	X	X					-	-	-
	California least tern	E E				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		-	-	-
149	Burrowing owl	C	X	X	X									X	-	-	-
150	Black skimmer	C				X	X	X	X	X	X	X			-	-	-
	Royal tern		X	X								X	X		-	-	-
493	Black oystercatcher	11	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	4	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
127	California grunion				X	X	X	X	X	X					-	-	-	MAR-SEP	-
128	Rocky intertidal fish		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-
560	California grunion	FREQUENT LARGE 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
128	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
128	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	-	-	-	-
119	California sea lion		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-SEP
121	Pacific harbor seal	15-25 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	MAY-JUL
144	California sea lion		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	AUG-SEP
535	Bottlenose dolphin	SECONDARY	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	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	-	-	-	-

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 20 (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	-	-	-	-
	Blue whale	E SECONDARY	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	-	-	-	-
	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	Interesting	Juveniles	Adults
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

HUMAN USE RESOURCES:

ACP SENSITIVE SITES:

ACP SITE#	Name	Contact
5-230-A/C	Middle Breakwater	CDF&G OSPR
5-240-A/C	Long Beach Harbor Breakwater	CDF&G OSPR
5-250-A	Golden Shore Marine Reserve	CDF&G OSPR

ACCESS:

HUN#	Name	Contact	Phone
58	LA-G-2050 LONG BEACH F 202		562/437-0041
59	LA-G-2060 SOUTH SHORE BOAT LAUNCH		562/570-8636
60	LA-H-2110 QUEENSWAY LANDING		
61	LA-H-2120 RAINBOW HARBOR		562/570-8636
62	LA-H-2130 PARKER'S LIGHTHOUSE		
63	LA-H-2140 SHORELINE MARINA		
64	LA-H-2150 BLUFF PARK		562/570-3232
65	LA-H-2160 BELMONT PIER		562/570-3100
66	LA-H-2170 LAVERNE AVE.		562/570-3100
67	LA-H-2180 55TH PLACE		562/570-3100

AIRPORT:

HUN#	Name	Contact	Phone
333	LONG BEACH (DAUGHERTY FIELD)		562/570-2619

BOAT RAMP:

HUN#	Name	Contact	Phone
361	CLAREMONT		562/570-8636
369	GRANADA		562/570-8636
375	MARINE STADIUM		562/570-8636
385	SOUTH SHORE		562/570-8636

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
580	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 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
	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
	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 20 (cont.)

HUMAN USE RESOURCES: (cont.)

FISHERY AREA: (cont.)

HUN#	Name	J	F	M	A	M	J	J	A	S	O	N	D
580	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
	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

MARINA:

HUN#	Name	Contact	Phone
663	CALIFORNIA YACHT MARINA - WILMINGTON	LCT MGT	310/834-7113
668	CERRITOS YACHT ANCHORAGE	JOANNE GOEMAN	310/834-4737
673	COLONIAL YACHT ANCHORAGE	AUGUSTINO CAMELLO	310/830-1161
688	DOWNTOWN/ SHORELINE MARINA	CITY OF LONG BEACH	562/570-4950
703	ISLAND YACHT ANCHORAGE 1 AND 2	ROLLINS	310/830-1111
706	LEEWARD BAY MARINA	ROBERT PEREL	310/830-5621
710	LIGHTHOUSE YACHT LANDING	BARBARA GLEASON	310/834-9595
722	NEWMARK'S YACHT CENTER	WARREN P NEWMARK II	310/834-5016
728	PACIFIC YACHT LANDING	PEREL MARINAS INC & PACIFIC YACHT LANDING	310/830-0260

PLATFORM:

HUN#	Name	Contact	Phone
830	CHAFFEE		562/624-3507
834	FREEMAN		562/624-3508
835	GRISSOM		562/624-3505
838	WHITE		562/624-3506

WATER INTAKE:

HUN#	Name	Contact	Phone
887	WATER INTAKE		