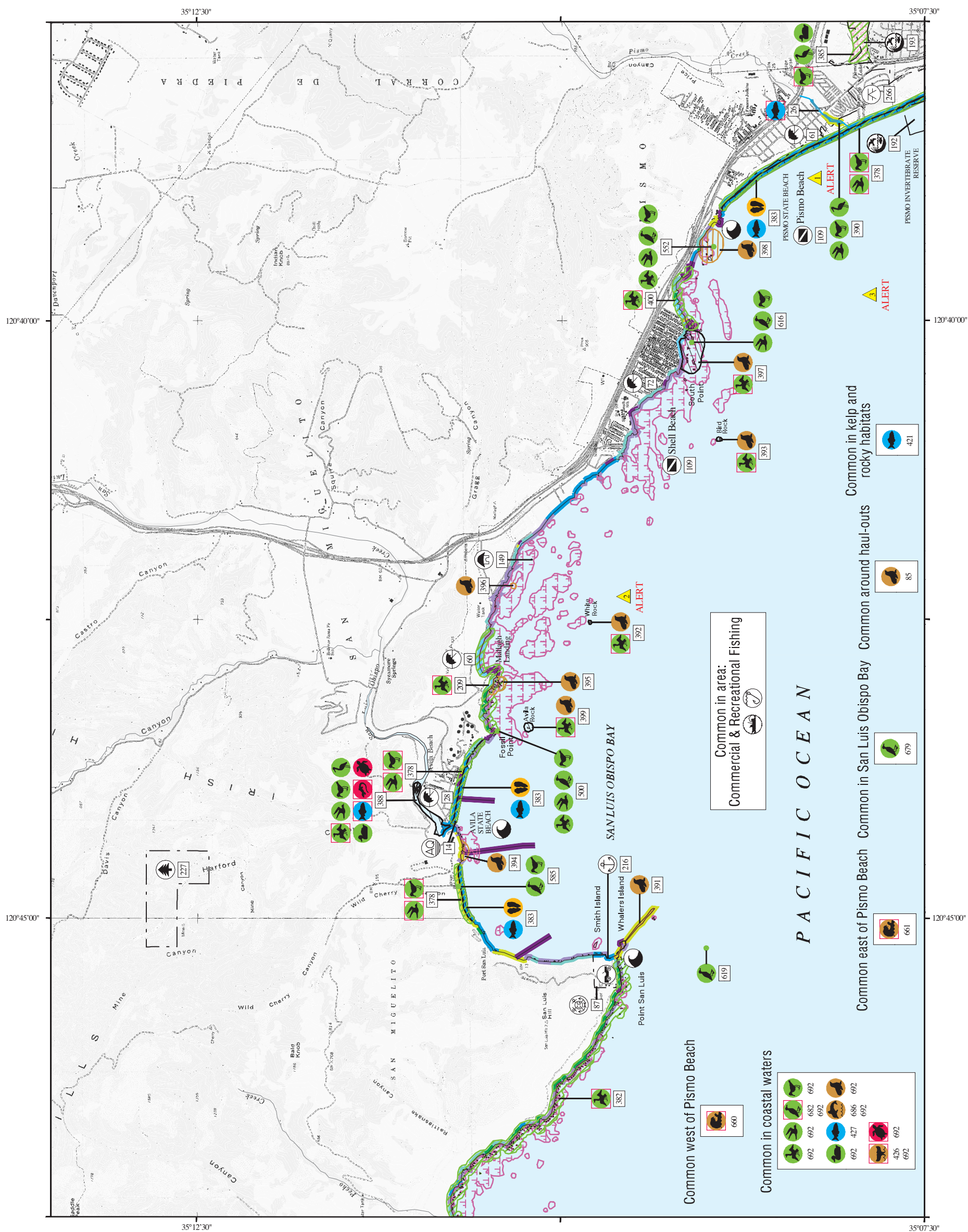
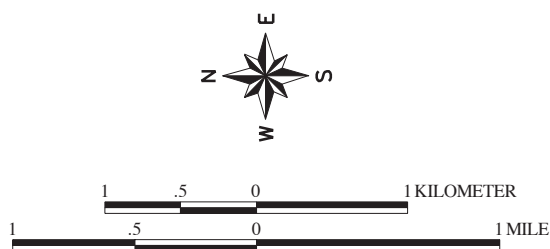


ENVIRONMENTAL SENSITIVITY INDEX MAP



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

Prepared by: Research Planning, Inc.
Columbia, South Carolina

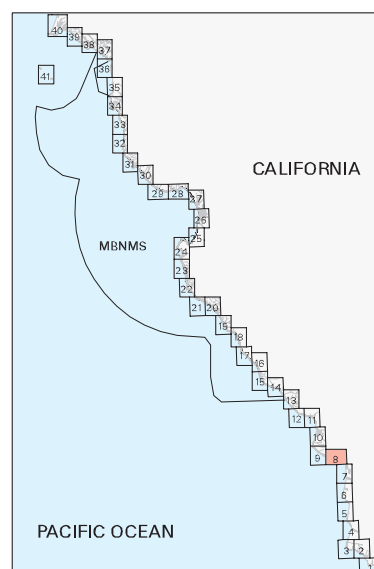


SCALE 1:50000

Not For Navigation

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California Department of Fish and Game



Central California ESI-8

Central California: ESIMAP 8

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
209	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
378	California least tern	E E	X X X X X X X X X	-	APR-SEP	-
	Gulls		X X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X	-	-	-
	Western snowy plover	T	X X X X X X X X X X X	MAR-SEP	-	-
382	Brown pelican	E E HIGH	X X X X X X X X X X X	-	JUL-NOV	-
385	Shorebirds		X X X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X X	FEB-AUG	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
	Western snowy plover	T LOW	X X X X X X X X X X X	MAR-SEP	-	-
388	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
	Grebes		X X X X X X X X X	-	MAR-APR SEP-NOV	-
	Gulls		X X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X	-	-	-
	Terns		X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X X	FEB-AUG	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
390	Gulls		X X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X	-	-	-
	Terns		X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X X	FEB-AUG	-	-
392	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
393	Brandt's cormorant		X X X X X X X X X X X	FEB-AUG	-	-
	Brown pelican	E E HIGH	X X X X X X X X X X X	-	JUL-NOV	-
397	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
399	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
400	Brown pelican	E E HIGH	X X X X X X X X X X X	-	JUL-NOV	-
500	Black oystercatcher	7 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	46 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	131 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	21 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
552	Black oystercatcher	3 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	15 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	104 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Rhinoceros auklet	1 INDIV.	X X X X X X X X X X X	APR-SEP	-	-
	Western gull	10 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
585	Black oystercatcher	1 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	19 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
616	Black oystercatcher	11 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	153 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Rhinoceros auklet	5 INDIV.	X X X X X X X X X X X	APR-SEP	-	-
	Western gull	18 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
619	Pigeon guillemot	18 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
679	Sooty shearwater	HIGH	X X X X X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	X X X X X X X X X X	-	-	APR-OCT
692	Cassin's auklet	MODERATE	X X X X X X X X X X X	-	-	-
	Clark's grebe	MODERATE	X X X X X X X X X	-	MAR-APR SEP-NOV	-
	Common murre	MODERATE	X X X X X X X X X X X	-	-	JUL-SEP
	Cormorants	MODERATE	X X X X X X X X X X X	-	-	-
	Eared grebe	LOW	X X X X X X X X X	-	MAR-APR SEP-OCT	-
	Gulls	MODERATE	X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X X X X X X	-	OCT-APR	-
	Loons	LOW	X X X X X X X X X	-	OCT-MAY	-
	Marbled murrelet	E T LOW	X X X X X X X X X X X	-	-	-
	Pacific loon	MODERATE	X X X X X X X X X	-	OCT-MAY	-
	Pelicans	MODERATE	X X X X X X X X X X X	-	JUL-NOV	-
	Phalaropes	LOW	X X X X X X X X X X X	-	-	-
	Pigeon guillemot	MODERATE	X X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	X X X X X X X X X X X	-	-	-
	Shearwaters	MODERATE	X X X X X X X X X X X	-	-	-
	Surf scoter	MODERATE	X X X X X X X X X	-	MAR-APR SEP-DEC	-
	Western grebe	MODERATE	X X X X X X X X X	-	MAR-APR SEP-NOV	-
	White-winged scoter	MODERATE	X X X X X X X X X	-	MAR-APR OCT-NOV	-

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
26	Steelhead	T	X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
383	Barred surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion		X X X X X X X	MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass		X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
388	Steelhead	T	X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
421	Black rockfish		X X X X X X X X X X X	JAN-MAY	-	-	APR-JUL	JAN-DEC
	Black-and-yellow rockfish		X X X X X X X X X X X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Blue rockfish		X X X X X X X X X X X	NOV-MAR	-	-	APR-JUL	JAN-DEC
	Bocaccio		X X X X X X X X X X X	-	-	-	JAN-DEC	-
	Canary rockfish (orange)		X X X X X X X X X X X	-	-	-	JAN-DEC	-
	China rockfish		X X X X X X X X X X X	JAN-JUL	-	-	MAY-JUL	JAN-DEC
	Copper rockfish		X X X X X X X X X X X	FEB-APR	-	-	APR-JUL	JAN-DEC
	Gopher rockfish		X X X X X X X X X X X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Grass rockfish		X X X X X X X X X X X	JAN-MAR	-	-	MAY-JUL	JAN-DEC
	Kelp rockfish		X X X X X X X X X X X	FEB-APR	-	-	APR-AUG	JAN-DEC
	Olive rockfish		X X X X X X X X X X X	JAN-MAR	-	-	APR-JUL	JAN-DEC
	Vermilion rockfish		X X X X X X X X X X X	SEP-NOV	-	-	FEB-JUL	JAN-DEC
	Widow rockfish		X X X X X X X X X X X	-	-	-	JAN-DEC	-
	Yellowtail rockfish		X X X X X X X X X X X	-	-	-	JAN-DEC	-
427	California halibut		X X X X X X X X X X X	FEB-JUN	-	FEB-SEP	JAN-DEC	FEB-NOV
	Salmon		X X X X X X X	-	-	-	-	APR-SEP

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
383	Pismo clam	HIGH	X X X X X X X X X X X	JUN-DEC	-	-	-	JUN-DEC

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
391	California sea lion	3-140 INDIV.	X X X X X X X X X X X	-	-	-	-
392	California sea lion	297 INDIV.	X X X X X X X X X X X	-	-	-	-
393	California sea lion	26 INDIV.	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.

Central California: ESIMAP 8 (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
394	Harbor seal	62 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
395	Harbor seal	16 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
396	Harbor seal	12 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
397	Harbor seal	68 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
398	Harbor seal	20 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
399	California sea lion		X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X X X X X	-	DEC-FEB	-	-
660	Sea otter	T 247 INDEP / 36 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
661	Sea otter	T 74 INDEP / 1 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
692	Blue whale	E MODERATE	X X X X X X X X X X X	-	-	-	-
	Bottlenose dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Dall's porpoise	MODERATE	X X X X X X X X X X X	-	-	-	-
	Fin whale	E LOW	X X X X X X X X X X X	-	-	-	-
	Humpback whale	E MODERATE	X X X X X X X X X X X	-	-	-	-
	Killer whale	LOW	X X X X X X X X X X X	-	-	-	-
	Long-beaked common dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Minke whale	LOW	X X X X X X X X X X X	-	MAR-MAY	-	-
	Northern right whale	E LOW	X X X X X X X X X X X	-	-	-	-
	Northern right-whale dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Pacific white-sided dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Risso's dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Sea lions	MODERATE	X X X X X X X X X X X	-	-	-	-
	Seals	LOW	X X X X X X X X X X X	-	-	-	-
	Short-beaked common dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Short-finned pilot whale	LOW	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
388	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	Western pond turtle		X X X X X	-	-	-	JUN-OCT	-
692	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers nesting, March-September.
2	California sea lion and harbor seal haul-outs year-round.
3	Threatened/endangered or rare terrestrial plants potentially in the area.

AQUACULTURE:

HUN#	Name	Contact	Phone
14	CENTRAL COAST SALMON ENHANCEMENT INC.		

BEACH:

HUN#	Name	Contact	Phone
28	AVILA BEACH		
60	PIRATES COVE		
61	PISMO BEACH PIER, PISMO STATE BEACH		
72	SHELL BEACH		

COAST GUARD:

HUN#	Name	Contact	Phone
87	COAST GUARD RESERVATION	US COAST GUARD	

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		

SAMPLING SITE:

HUN#	Name	Contact	Phone
149	PISCO:SHELL BEACH	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
192	PISMO - SMCA	CDF&G	
193	PISMO LAKE ER	CA DEPT OF FISH AND GAME	

MARINA:

HUN#	Name	Contact	Phone
216	PORT SAN LUIS HARBOR		

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
227	MUZIO	THE NATURE CONSERVANCY	

PARK:

HUN#	Name	Contact	Phone
266	PISMO SB	CA DEPT OF PARKS AND RECREATION	