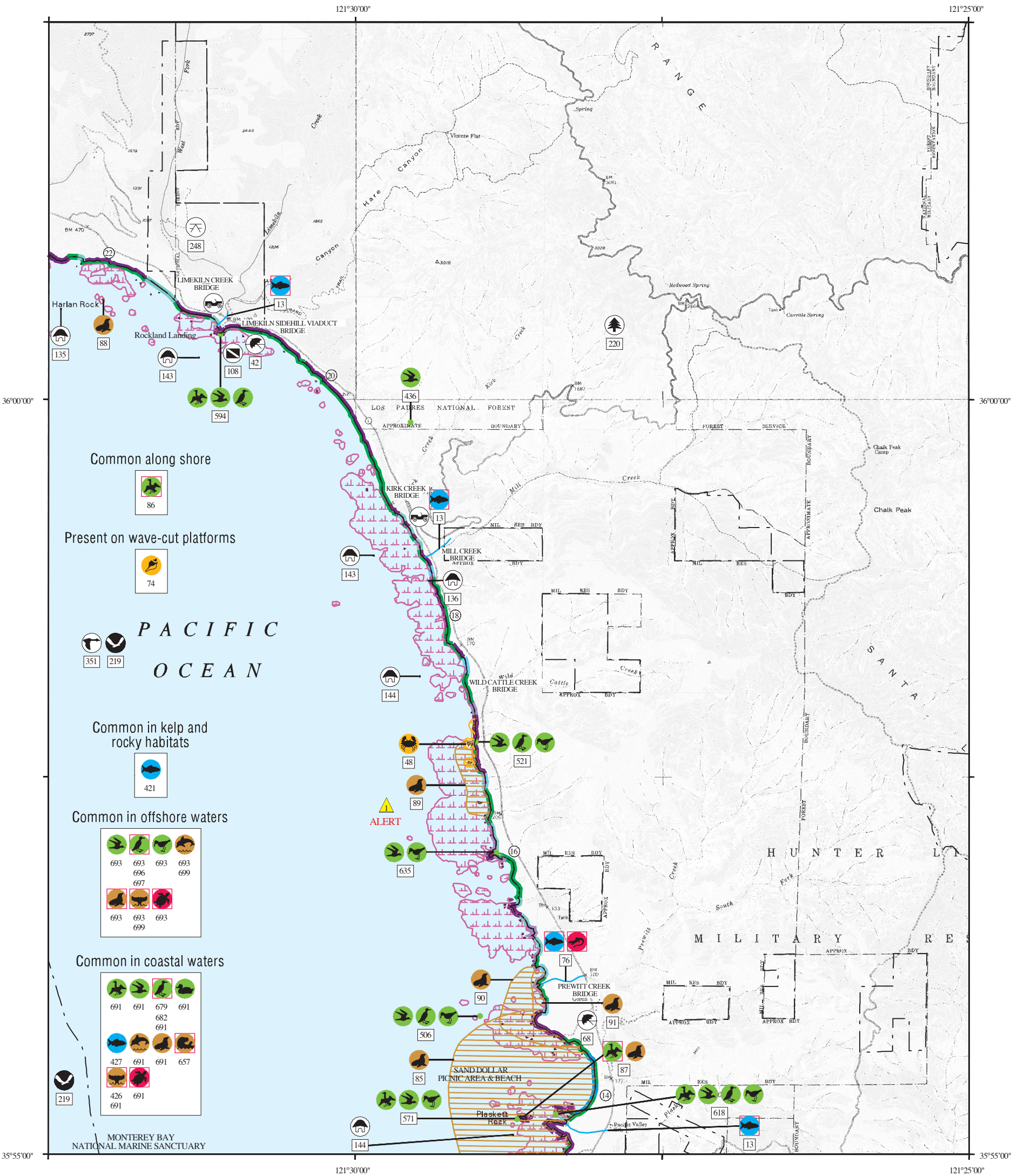


ENVIRONMENTAL SENSITIVITY INDEX MAP



- 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

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Central California: ESIMAP 18

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
86	Brown pelican	E E 4-526 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
87	Brown pelican	E E 58-203 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
436	Western gull	2 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
506	Black oystercatcher	1 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	5 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	8 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
521	Black oystercatcher	2 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	2 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	2 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
571	Black oystercatcher	1 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Brandt's cormorant	849 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	5 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
594	Pelagic cormorant	2 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	17 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	6 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
618	Black oystercatcher	6 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	2 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	40 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	26 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
635	Black oystercatcher	2 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Western gull	8 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
679	Sooty shearwater	HIGH	X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	X X X X X X X X X X	-	-	APR-OCT
691	Black-footed albatross	LOW	X X X X X X X X	-	-	-
	Clark's grebe	LOW	X X X X	X X X X	MAR-APR SEP-NOV	-
	Common murre	LOW	X 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 X	-	-	-
	Eared grebe	LOW	X X X X	X X X X	MAR-APR SEP-OCT	-
	Gulls	LOW	X X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X	X X X X	OCT-APR	-
	Loons	LOW	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 X	-	-	-
	Pacific loon	LOW	X X X X	X X X	OCT-MAY	-
	Pelicans	LOW	X X X X X X X X X X	-	JUL-NOV	-
	Pigeon guillemot	LOW	X X X X X X X X	-	-	-
	Rhinoceros auklet	LOW	X X X X X X X X X X X X	-	-	-
	Seabirds	LOW	X X X X X X X X X X X X	-	-	-
	Shearwaters	LOW	X X X X X X X X X X X X	-	-	-
	Surf scoter	LOW	X X X X	X X X X	MAR-APR SEP-DEC	-
	Western grebe	LOW	X X X X	X X X X	MAR-APR SEP-NOV	-
	White-winged scoter	LOW	X X X X	X X X	MAR-APR OCT-NOV	-
693	Black-footed albatross	MODERATE	X X X X X X X X X X	-	-	-
	Common murre	LOW-MODERATE	X X X X X X X X X X X X	-	-	JUL-SEP
	Gulls	LOW	X X X X X X X X X X X X	-	-	-
	Phalaropes	MODERATE	X X X X X X X X X X X X	-	-	-
	Rhinoceros auklet	LOW	X X X X X X X X X X X X	-	-	-
	Shearwaters	LOW	X X X X X X X X X X X X	-	-	-
	Sooty shearwater	LOW	X X X X X X X X X X	-	-	APR-OCT
	Xantus' murrelet	T MODERATE	X X X X	-	-	-
696	Ashy storm-petrel	MODERATE	X X X X X X X X X X X X	-	-	-
	Storm-petrels	MODERATE	X X X X X X X X X X	-	-	-
697	Cassin's auklet	MODERATE	X X X X X X X X X X X X	-	-	-

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
13	Steelhead	T	X X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
76	Steelhead	T	X X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
421	Black rockfish		X 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 X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Blue rockfish		X 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 X	-	-	-	JAN-DEC	-
	Canary rockfish (orange)		X 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 X	JAN-JUL	-	-	MAY-JUL	JAN-DEC
	Copper rockfish		X 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 X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Grass rockfish		X 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 X	FEB-APR	-	-	APR-AUG	JAN-DEC
	Olive rockfish		X 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 X	SEP-NOV	-	-	FEB-JUL	JAN-DEC
	Widow rockfish		X 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 X	-	-	-	JAN-DEC	-
427	California halibut		X 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	-	-	-	-	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
48	Invertebrates	HIGH DIVERSITY	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
74	Black abalone		X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-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 X	-	-	-	-
87	California sea lion	138 INDIV.	X X X X X X X X X X X X	-	-	-	-
88	California sea lion	13 INDIV.	X X X X X X X X X X X X	-	-	-	-
89	Harbor seal	30-63 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
90	Harbor seal	13-26 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
91	Northern elephant seal	LOW	X X X X X X X X X X X X	NOV-MAR	-	DEC-MAR	APR-JUL
426	Gray whale		X X X X X	X X	-	DEC-FEB	-
657	Sea otter	T 329 INDEP / 50 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
691	Blue whale	E LOW	X X X X X X X X X X X X	-	-	-	-
	Bottlenose dolphin	LOW	X 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 X	-	-	-	-
	Fin whale	E LOW	X X X X X X X X X X X X	-	-	-	-
	Harbor porpoise	LOW	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
	Humpback whale	E MODERATE	X X X X X X X X X X	-	-	-	-
	Killer whale	LOW	X X X X X X X X X X X X	-	-	-	-
	Long-beaked common dolphin	LOW	X X X X X X X X X X X X	-	-	-	-
	Minke whale	MODERATE	X X X X X X X X X X X X	-	MAR-MAY	-	-
	Northern right whale	E LOW	X X X	-	-	-	-
	Northern right-whale dolphin	LOW	X X X X X X X X X X X X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	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 impactsto protected species.

Central California: ESIMAP 18 (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
691	Risso's dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Sea lions	LOW-MODERATE	X X X X X X X X X X X	-	-	-	-
	Seals	LOW-MODERATE	X X X X X X X X X X X	-	-	-	-
	Short-beaked common dolphin	LOW	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	-	-	-	-
693	Baird's beaked whale	LOW	X X X X X X X X	-	-	-	-
	California sea lion	LOW	X X X X X X X X X X X	-	-	-	-
	Cuvier's beaked whale	LOW	X X X X X X X X X X X	-	-	-	-
	Dwarf sperm whale	LOW	X X X X X X X X X X X	-	-	-	-
	Fin whale	E MODERATE	X X X X X X X X X X X	-	-	-	-
	Guadalupe fur seal	T T LOW	X X X X X X X X X X X	-	-	-	-
	Harbor seal	LOW	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	LOW	X X X X X X X X X X X	-	-	-	-
	Mesoplodont beaked whales	LOW	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 elephant seal	MODERATE	X X X X X X X X X X X	-	-	-	-
	Northern fur seal	MODERATE	X X X X X X X X X X X	-	-	-	-
	Northern right whale	E LOW	X X X	-	-	-	-
	Northern right-whale dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Pygmy sperm whale	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	-	-	-	-
	Sei whale	E LOW	X X X X X X X X X X X	-	SEP-MAR	-	-
	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	-	-	-	-
	Sperm whale	E LOW	X X X X X X X X X X X	MAR-JUN	JUN-OCT	-	-
	Steller sea lion	T LOW	X X X X X X X X X X X	-	-	-	-
699	Blue whale	E MODERATE	X X X X X X X X	-	-	-	-
	Dall's porpoise	LOW	X X X X X X X X X X X	-	-	-	-
	Dolphins	LOW-MODERATE	X X X X X X X X X X X	-	-	-	-
	Humpback whale	E MODERATE	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
76	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
691	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

BEACH:

HUN#	Name	Contact	Phone
42	LIMEKILN BEACH		
68	SAND DOLLAR BEACH		

DIVING:

HUN#	Name	Contact	Phone
108	DIVING		

SAMPLING SITE:

HUN#	Name	Contact	Phone
135	PISCO:LUCIA	PETE RAIMONDI	831/459-5674
136	PISCO:MILL CREEK	PETE RAIMONDI	831/459-5674
143	PISCO:QUALITATIVE	STEVE LONHART	831/647-4222
144	PISCO:QUANTITATIVE	STEVE LONHART	831/647-4222

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
219	MONTEREY BAY NATIONAL MARINE SANCTUARY	SUPERINTENDENT	831/647-4201

NATIONAL FOREST:

HUN#	Name	Contact	Phone
220	LOS PADRES NATIONAL FOREST	USDA FOREST SERVICE	

PARK:

HUN#	Name	Contact	Phone
248	LIMEKILN SP	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
351	CALIFORNIA SEA OTTER GAME REFUGE	CDF&G	