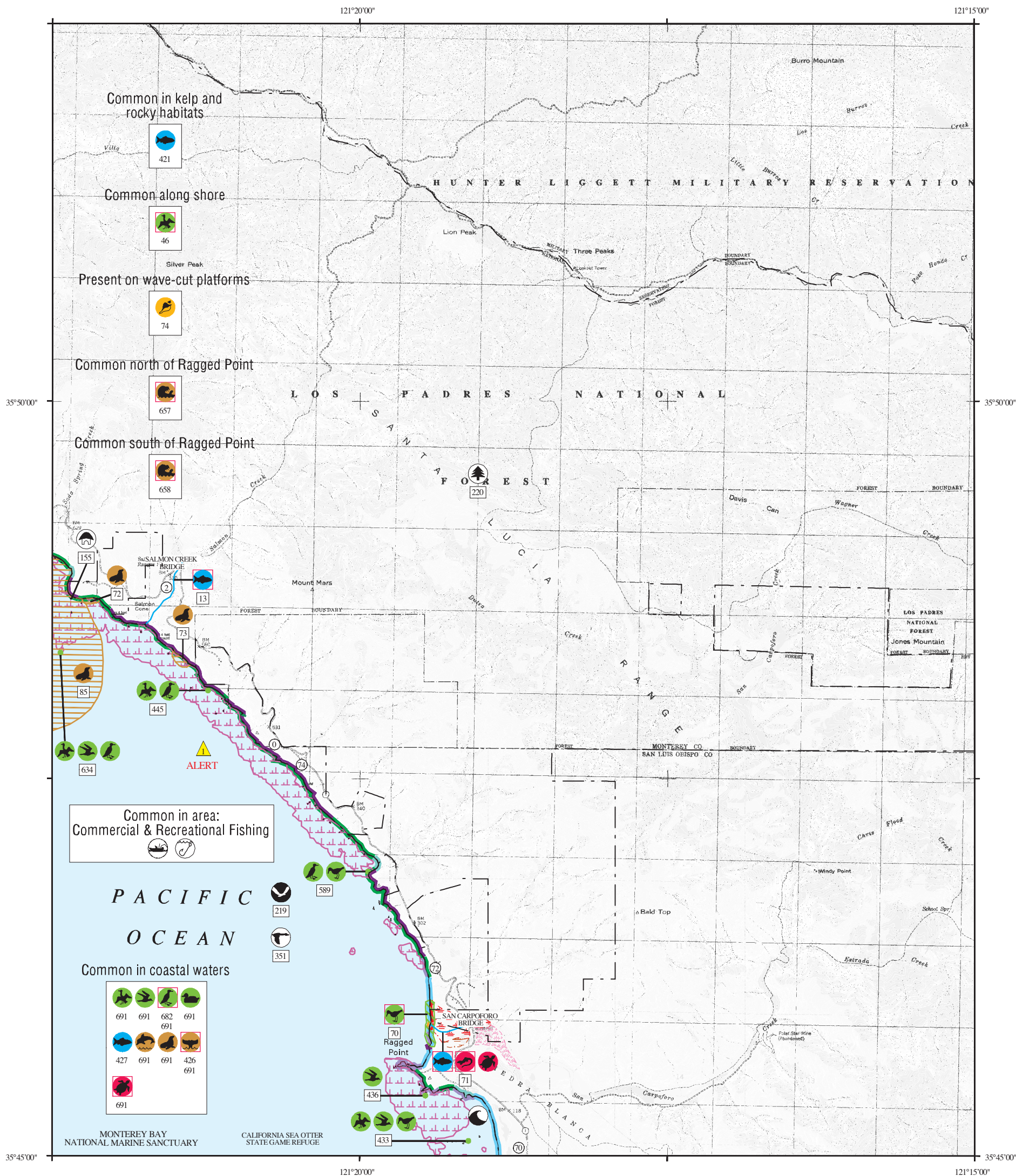
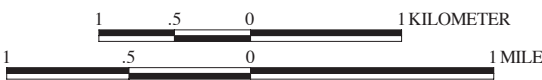


ENVIRONMENTAL SENSITIVITY INDEX MAP



- 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

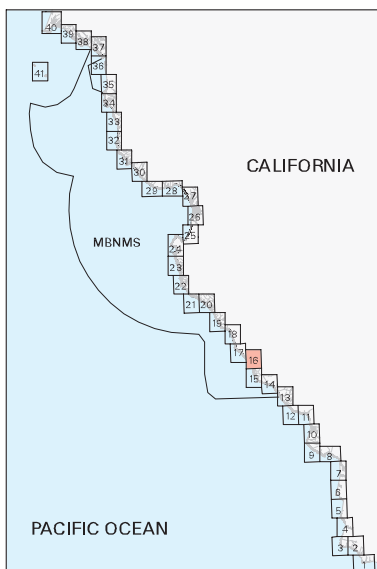


SCALE 1:50000

Not For Navigation

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and
Office of Spill Prevention and Response
California Department of Fish and Game



Central California **ESI-16**

Central California: ESIMAP 16

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
46	Brown pelican	E E 24-185 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
70	Western snowy plover	T HIGH	X X X X X X X X X X X	MAR-SEP	-	-
433	Black oystercatcher	2 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	48 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Western gull	12 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
436	Western gull	2 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
445	Pelagic cormorant	24 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	28 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
589	Black oystercatcher	2 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	8 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
634	Brandt's cormorant	31 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Pigeon guillemot	5 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	3 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
682	Sooty shearwater	MODERATE	X X X X X X X X X	-	-	APR-OCT
691	Black-footed albatross	LOW	X 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	-	-	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	-	-
					MAR-APR SEP-OCT	-
	Gulls	LOW	X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X	X X X X	-	-
	Loons	LOW	X X X X X	X X X	-	-
	Marbled murrelet	E T LOW	X X X X X X X X X X X	-	-	-
	Pacific loon	LOW	X X X X X	X X X	-	-
	Pelicans	LOW	X X X X X X X X X X X	-	-	-
	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	-	-	-
	Seabirds	LOW	X X X X X X X X X X X	-	-	-
	Shearwaters	LOW	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	-

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	-	-	-	JUN-OCT	OCT-JUN
71	Pacific lamprey		X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
	Steelhead	T	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	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	-	-	-	-	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
74	Black abalone		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
72	Harbor seal	4 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
73	Harbor seal	9 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
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	-	-	JAN-MAR SEP-NOV	-
658	Sea otter	T 522 INDEP / 80 PUPS	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	-	-	-	-
	Bottlenose dolphin	LOW	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	-	-	-	-
	Harbor porpoise	LOW	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	-	-	-	-
	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	-	-	-	-
	Minke whale	MODERATE	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	-	-	-	-
	Pacific white-sided dolphin	MODERATE	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	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	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
71	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	Western pond turtle		X X X X X	-	-	-	JUN-OCT	-
691	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.

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 16 (cont.)

HUMAN USE RESOURCES: (cont.)

SAMPLING SITE:

HUN#	Name	Contact	Phone
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155	PISCO:TIDE ROCK	STEVE LONHART	831/647-4222

MARINE SANCTUARY:

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

NATIONAL FOREST:

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

WILDLIFE REFUGE:

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