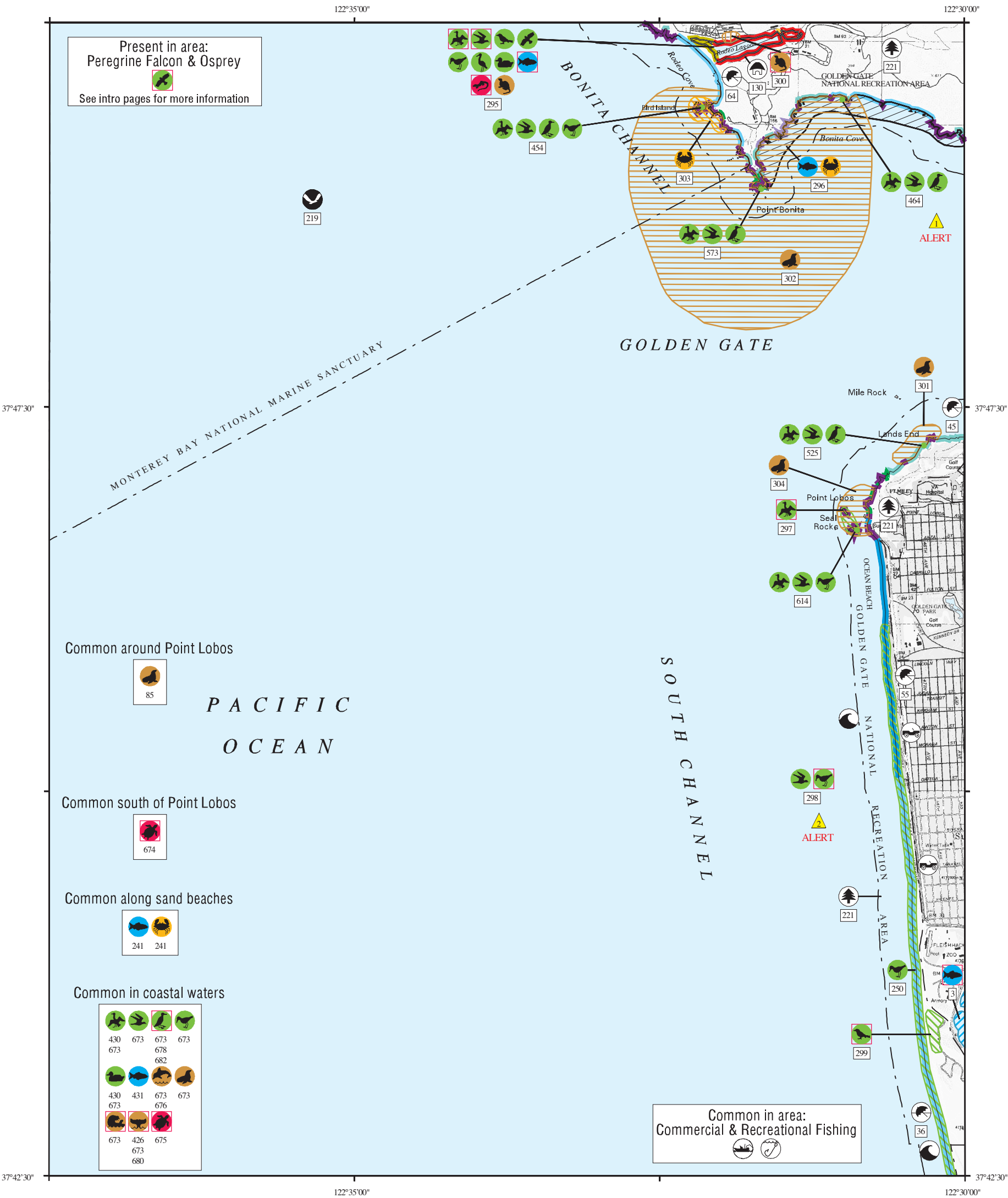


ENVIRONMENTAL SENSITIVITY INDEX MAP



Central California: ESIMAP 36

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
250	Shorebirds	HIGH	X X X X X X X X X X X	-	-	-
295	Brown pelican	E E 0-500 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
	California least tern	E E	X X X X X	-	APR-SEP	-
	Common yellowthroat		X X X X X X X X X X X	MAR-JUL	APR-MAY SEP-OCT	-
	Dabbling ducks		X X X X X X X X X	-	SEP-MAR	-
	Diving birds		X X X X X X X X X X X	-	-	-
	Diving ducks		X X X X X X X X X	-	SEP-MAY	-
	Gulls		X X X X X X X X X X X	-	-	-
	Raptors		X X X X X X X X X X X	-	AUG-NOV	-
	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	-	-
297	Brown pelican	E E 13-1003 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
298	Gulls	1000S INDIV.	X X X X X X X X X X X	-	-	-
	Shorebirds	1000S INDIV.	X X X X X X X X X X X	-	-	-
	Terns	COMMON	X X X X X	-	-	-
	Western snowy plover	T	X X X X X X X X X X X	MAR-SEP	-	-
299	Bank swallow	T	X X X X X X	MAR-AUG	-	-
430	Grebes	HIGH	X X X X X X X X X	-	MAR-APR SEP-NOV	-
	Loons	HIGH	X X X X X X X X	-	OCT-MAY	-
	Scoters	HIGH	X X X X X X X X	-	MAR-APR SEP-DEC	-
454	Black oystercatcher	1 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Brandt's cormorant		X X X X X X X X X X X	FEB-AUG	-	-
	Pelagic cormorant		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	FEB-AUG	-	-
	Western gull	56 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
464	Pelagic cormorant	2 INDIV.	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	FEB-AUG	-	-
	Western gull	6 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
525	Brandt's cormorant	117 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Pigeon guillemot	18 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	14 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
573	Pelagic cormorant	95 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	66 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	10 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
614	Black oystercatcher	3 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Brandt's cormorant		X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	46 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
673	Cassin's auklet	LOW	X X X X X X X X X X X	-	-	-
	Clark's grebe	MODERATE	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	-	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	-	OCT-APR	-
	Pacific loon	MODERATE	X X X X X X X X	-	OCT-MAY	-
	Pelicans	MODERATE	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	LOW	X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	X X X X X X X X X X X	-	-	-
	Shearwaters	LOW-HIGH	X X X X X X X X X X X	-	-	-
	Surf scoter	MODERATE	X X X X X X X X	-	MAR-APR SEP-DEC	-
	Western grebe	MODERATE	X X X X X X X X	-	MAR-APR SEP-NOV	-
	White-winged scoter	MODERATE	X X X X X X X X	-	MAR-APR OCT-NOV	-
678	Marbled murrelet	E T MODERATE	X X X X X X X X X X X	APR-JUL	-	-
682	Sooty shearwater	MODERATE	X X X X X X X X X	-	-	APR-OCT

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
3	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
241	Barred surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	Calico 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
	Jacksmelt		X X X X X X X X X X X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Redtail surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass		X 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
	White seabass		X X X X X X X X X X	APR-AUG	-	-	-	MAR-NOV
	White seaperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	FEB-AUG
295	Striped bass		X X X X X X X X X X X	APR-JUN	-	-	-	JAN-DEC
	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
296	Barred surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	Calico 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
	Jacksmelt		X X X X X X X X X X X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Pacific herring	HIGH	X X X X X X X X	OCT-MAR	-	-	-	OCT-MAR
	Redtail surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass		X 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
	White seabass		X X X X X X X X X X	APR-AUG	-	-	-	MAR-NOV
	White seaperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	FEB-AUG
431	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	-	-	-	-	APR-SEP
	White shark		X X X X X X X X X X X	-	-	-	-	JAN-DEC

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
241	Dungeness crab		X X X X	-	-	-	-	JUN-SEP
296	Dungeness crab		X X X X	-	-	-	-	JUN-SEP
303	Tidepool invertebrates	HIGH	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
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
301	Harbor seal	LOW	X X X X X X X X X X X	-	-	-	-
302	California sea lion	30 INDIV.	X X X X X X X X X X X	-	-	MAY-AUG	-
	Harbor seal	75-105 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
304	California sea lion	311-402 INDIV.	X X X X X X X X X X X	-	-	MAY-AUG	-
	Harbor seal	75-105 INDIV.	X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X	-	DEC-FEB	-	-

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 36 (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
673	Bottlenose dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Dall's porpoise	LOW	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	-	-	-	-
	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	-	-	-	-
	Pacific white-sided dolphin	LOW	X X X X X X X X X X X	-	-	-	-
	Risso's dolphin	LOW	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	-	-	-	-
	Sea otter	T LOW	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	-	-	-	-
676	Harbor porpoise	8500 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
680	Blue whale	E LOW	X X X X X	-	-	-	-
	Humpback whale	E MODERATE	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
295	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
674	Leatherback sea turtle	E HIGH	X X X X X X X	-	-	-	-	MAY-NOV
675	Leatherback sea turtle	E MODERATE	X X X X X X X	-	-	-	-	MAY-NOV

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
295	Northern river otter		X X X X X X X X X X X
300	Salt-marsh harvest mouse	E E	X X X X X X X X X X X

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Colonial seabirds, keep aircraft away February-September.
2	Snowy plovers year-round, contact NPS for vehicle access.

BEACH:

HUN#	Name	Contact	Phone
36	FORT FUNSTON BEACH		
45	MILE ROCK BEACH		
55	OCEAN BEACH		
64	RECREATIONAL BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
130	PISCO:GGNRA	DARREN FONG	415/331-8716

MARINE SANCTUARY:

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

NATIONAL PARK:

HUN#	Name	Contact	Phone
221	GOLDEN GATE NATIONAL RECREATION AREA	NATIONAL PARK SERVICE	415/561-4700