

Central California: ESIMAP 1

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
1	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
2	Waterfowl	HIGH	X	X	X	X	X			X	X	X	X		-	-	-
8	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
418	Diving birds	HIGH		X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	HIGH		X	X	X	X	X	X						FEB-AUG	-	-
649	Seabirds	33 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
682	Sooty shearwater	MODERATE			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	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	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	MODERATE	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	X		-	OCT-MAY	-
	Marbled murrelet	E T LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pacific loon	MODERATE	X	X	X	X	X				X	X	X		-	OCT-MAY	-
	Pelicans	MODERATE			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	X	-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	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		-	MAR-APR OCT-NOV	-
693	Black-footed albatross	MODERATE	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
3	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
17	Barred surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass					X	X	X	X	X					-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
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

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
4	Harbor seal	54 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
5	Harbor seal	390-861 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
6	Northern elephant seal	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	-	DEC-MAR	APR-JUL
7	Harbor seal	143 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
426	Gray whale		X	X	X	X	X						X	X	-	DEC-FEB	-	-
663	Sea otter	T 23 INDEP / 0 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
664	Sea otter	T 41 INDEP / 0 PUPS	X	X	X	X							X		-	-	-	-
677	Harbor porpoise	MODERATE	X	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		-	-	-	-
	Bottlenose dolphin	MODERATE	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	-	-	-	-
	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	MODERATE	X	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	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	LOW	X	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	X	-	-	-	-
	Sea lions	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Seals	LOW	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
693	Baird's beaked whale	LOW		X	X	X	X	X							-	-	-	-
	California sea lion	LOW	X	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	X	-	-	-	-
	Dwarf sperm whale	LOW	X	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	X	-	-	-	-
	Guadalupe fur seal	T T LOW	X	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	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	-	-	-	-
	Mesoplodont beaked whales	LOW	X	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	X	-	MAR-MAY	-	-
	Northern elephant seal	MODERATE	X	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	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	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 impacts to protected species.

Central California: ESIMAP 1 (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
693	Pygmy sperm whale	LOW	X 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 X	-	-	-	-
	Sei whale	E LOW	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X 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 X	MAR-JUN	JUN-OCT	-	-
	Steller sea lion	T LOW	X X X X X X X X X X X X	-	-	-	-
699	Blue whale	E MODERATE	X 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 X	-	-	-	-
	Dolphins	LOW-MODERATE	X 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 X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
692	Leatherback sea turtle	E LOW	X X X X X X X X X X X X	-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW	X X X X X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Elephant seal and harbor seal breeding colony, December-May.
2	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.
3	Threatened/endangered or rare terrestrial plants potentially in the area.

AQUACULTURE:

HUN#	Name	Contact	Phone
15	CONCEPTION BAY ABALONE COMPANY		

SAMPLING SITE:

HUN#	Name	Contact	Phone
131	PISCO:GOVERNMENT POINT	PETE RAIMONDI	831/459-5674

Central California: ESIMAP 2

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
96	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
	Shorebirds	HIGH	X X X X X X X X X X X	-	-	-
98	Waterfowl	HIGH	X X X X X X X X X	-	-	-
418	Diving birds	HIGH	X X X X X X X	FEB-AUG	-	-
	Seabirds	HIGH	X X X X X X X	FEB-AUG	-	-
682	Sooty shearwater	MODERATE	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	-	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	-	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	-	-	-
	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	-	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
17	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 X	MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass		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
97	Steelhead	E	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	-	-	-	-	APR-SEP

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
99	Harbor seal		X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X	-	DEC-FEB	-	-
663	Sea otter	T 23 INDEP / 0 PUPS	X X X X X X X X X X X	-	-	-	-
677	Harbor porpoise	MODERATE	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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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
97	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	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	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

BEACH:

HUN#	Name	Contact	Phone
39	JALAMA BEACH COUNTY PARK		

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		

Central California: ESIMAP 3

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	-
211	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
214	Wading birds		X X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
412	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
648	Seabirds	80 INDIV.	X X X X X X X	FEB-AUG	-	-
651	Pigeon guillemot	198 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
654	Seabirds	154 INDIV.	X X X X X X X	FEB-AUG	-	-
655	Pigeon guillemot	65 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
656	Seabirds	1081 INDIV.	X X X X X X X	FEB-AUG	-	-
679	Sooty shearwater	HIGH	X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	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	-	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	-
	Loons	LOW	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	-	OCT-MAY	-
	Pelicans	MODERATE	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	-	-	-
	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	-	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	-	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
3	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
17	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	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	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	-	-	-	-	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
215	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	-
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
210	California sea lion	2-75 INDIV.	X X X X X X X X X X X	-	-	-	-
211	California sea lion	37 INDIV.	X X X X X X X X X X X	-	-	-	-
212	California sea lion	96-922 INDIV.	X X X X X X X X X X X	-	-	MAY-JUL	-
213	Harbor seal	64-350 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X	-	DEC-FEB	-	-
662	Sea otter	T 74 INDEP / 8 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
663	Sea otter	T 23 INDEP / 0 PUPS	X X X X X X X X X X X	-	-	-	-
677	Harbor porpoise	MODERATE	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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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	Internesting	Juveniles	Adults
692	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Seabird colony, February-August.
2	California sea lion and harbor seal breeding area, March-August.

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 3 (cont.)

HUMAN USE RESOURCES: (cont.)

ALERT: (cont.)

ID#	Description
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3	Threatened/endangered or rare terrestrial plants potentially in the area.

SAMPLING SITE:

HUN#	Name	Contact	Phone
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122	PISCO:BOAT HOUSE	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
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204	VANDENBERG - SMR	CDF&G	

Central California: ESIMAP 4

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
1	Western snowy plover	T	X X X X X X X X X X X	MAR-SEP	-	-
342	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	-	-	-
	Terns		X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
344	California least tern	E E	X X X X X X X X X X	MAY-AUG	-	-
412	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
588	Pelagic cormorant	7 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	25 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	7 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
647	California least tern	E E 6 INDIV.	X X X X X X X X X X	MAY-AUG	-	-
679	Sooty shearwater	HIGH	X X X X X X X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	X 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 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 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 X X	-	OCT-APR	-
	Loons	LOW	X X 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 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 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 X X	-	MAR-APR SEP-DEC	-
	Western grebe	MODERATE	X X 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 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
17	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 X X X	MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass		X X 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
345	Steelhead	E	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 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
165	Pismo clam	MEDIUM	X X X X X X X X X X X	JUN-SEP	-	-	-	JUN-SEP
215	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
343	Harbor seal	25-44 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X X X X X	-	DEC-FEB	-	-
662	Sea otter	T 74 INDEP / 8 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	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	Internesting	Juveniles	Adults
692	Leatherback sea turtle	E LOW	X X X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers nesting, March-September.

AIRPORT:

HUN#	Name	Contact	Phone
11	VANDENBERG AIR FORCE BASE		

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 4 (cont.)

HUMAN USE RESOURCES: (cont.)

BEACH:

HUN#	Name	Contact	Phone
56	OCEAN BEACH COUNTY PARK		

SAMPLING SITE:

HUN#	Name	Contact	Phone
151	PISCO:STAIRS	PETE RAIMONDI	831/459-5674

Central California: ESIMAP 5

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
344	California least tern	E E	X X X X	MAY-AUG	-	-
372	Brown pelican	E E HIGH	X X X X X X X X X X X	-	JUL-NOV	-
	Shorebirds		X X X X X X X X X X	-	-	-
	Western snowy plover	T HIGH	X X X X X X X X X X X	MAR-SEP	-	-
373	Brown pelican	E E HIGH	X X X X X X X X X X X	-	JUL-NOV	-
	Cormorants		X X X X X X X X X X X	-	-	-
376	Waterfowl		X X X X X X X X X X X	-	-	-
377	California least tern	E E	X X X X	MAY-AUG	-	-
412	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
524	Pigeon guillemot	5 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
647	California least tern	E E 6 INDIV.	X X X X	MAY-AUG	-	-
650	California least tern	E E 36 INDIV.	X X X X	MAY-AUG	-	-
679	Sooty shearwater	HIGH	X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	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	-	-	-
	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	-
	Loons	LOW	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	-	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	-	-	-
	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	-	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	-	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
3	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
345	Steelhead	E	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
374	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	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	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	-	-	-	-	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
215	Black abalone		X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
374	Pismo clam	MEDIUM	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
373	Harbor seal	14 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
375	Harbor seal	12-14 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X	-	DEC-FEB	-	-
662	Sea otter	T 74 INDEP / 8 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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
376	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
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.

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 6

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
378	California least tern	E E	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	-	-
379	Diving birds		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	-	-	-
	Waterfowl		X X X X X X X X X X	-	-	-
382	Brown pelican	E E HIGH	X X X X X X X X X X X	-	JUL-NOV	-
412	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
523	Pelagic cormorant	4 INDIV.	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	2 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
547	Pelagic cormorant	9 INDIV.	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	7 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
580	Pigeon guillemot	45 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Rhinoceros auklet	3 INDIV.	X X X X X X X X X X X	APR-SEP	-	-
	Western gull	4 INDIV.	X X X X X X X X X X X	MAR-AUG	-	-
581	Pigeon guillemot	8 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
652	California least tern	E E	X X X X	MAY-AUG	-	-
653	California least tern	E E 40 INDIV.	X X X X	MAY-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
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 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 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 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 X	-	MAR-APR SEP-DEC	-
	Western grebe	MODERATE	X 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 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
17	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	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
379	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	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	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
384	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
32	Harbor seal	26 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	-	-	-	-
380	Harbor seal	47 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
381	California sea lion	583-2303 INDIV.	X X X X X X X X X X X	-	-	MAY-JUL	-
	Harbor seal	10-16 INDIV.	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	-	-	-	APR-JUL
	Northern fur seal	LOW	X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 1 INDIV.	X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X X X	-	DEC-FEB	-	-
661	Sea otter	T 74 INDEP / 1 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
662	Sea otter	T 74 INDEP / 8 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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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	Internesting	Juveniles	Adults
379	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
692	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV

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 6 (cont.)

HUMAN USE RESOURCES:

ALERT:

ID#	Description
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1	Snowy plovers nesting, March-September.
2	California sea lion rookery, May-July.

BEACH:

HUN#	Name	Contact	Phone
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53	NIPOMO DUNES PRESERVE		
63	POINT SAL STATE BEACH		

DIVING:

HUN#	Name	Contact	Phone
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109	DIVING		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
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194	PISMO-OCEANO BEACH - SMCA	CDF&G	

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
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226	GUADALUPE-NIPOMO DUNES PRESERVE	THE NATURE CONSERVANCY	

PARK:

HUN#	Name	Contact	Phone
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269	POINT SAL SB	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
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354	GUADALUPE-NIPOMO DUNES NWR	US FISH AND WILDLIFE SERVICE	

Central California: ESIMAP 7

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
378	California least tern	E E	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	-	-
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	-	-
386	Shorebirds	MEDIUM	X X X X X X X X X X X	-	-	-
	Wading birds	MEDIUM	X X X X X X X X X X X	FEB-AUG	-	-
	Waterfowl	MEDIUM	X X X X X X X X X X X	-	-	-
679	Sooty shearwater	HIGH	X X X X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	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	-	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	-	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	-
	Loons	LOW	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	-	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	-	-	-
	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	-	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	-	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
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	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
387	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
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
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
426	Gray whale		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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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
386	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
387	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
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	Threatened/endangered or rare terrestrial plants potentially in the area.

AIRPORT:

HUN#	Name	Contact	Phone
10	OCEANO COUNTY AIRPORT		

BEACH:

HUN#	Name	Contact	Phone
62	PISMO DUNES VEHICULAR RECREATION AREA		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
192	PISMO - SMCA	CDF&G	
194	PISMO-OCEANO BEACH - SMCA	CDF&G	

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 7 (cont.)

HUMAN USE RESOURCES: (cont.)

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
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226	GUADALUPE-NIPOMO DUNES PRESERVE	THE NATURE CONSERVANCY	

PARK:

HUN#	Name	Contact	Phone
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262	OCEANO DUNES SVRA	CA DEPT OF PARKS AND RECREATION	
266	PISMO SB	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
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354	GUADALUPE-NIPOMO DUNES NWR	US FISH AND WILDLIFE SERVICE	

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	X	-	JUL-NOV	-
378	California least tern	E E				X	X	X	X	X	X				-	APR-SEP	-
	Gulls		X	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	X	MAR-SEP	-	-
382	Brown pelican	E E HIGH	X	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	X	FEB-AUG	-	-
	Waterfowl		X	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	X	MAR-SEP	-	-
388	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Grebes		X	X	X	X				X	X	X	X		-	MAR-APR SEP-NOV	-
	Gulls		X	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				-	-	-
	Wading birds		X	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	X	-	-	-
390	Gulls		X	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					-	-	-
	Wading birds		X	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	X	-	JUL-NOV	-
393	Brandt's cormorant		X	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	X	-	JUL-NOV	-
397	Brown pelican	E E	X	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	X	-	JUL-NOV	-
400	Brown pelican	E E HIGH	X	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	X	MAR-SEP	-	-
	Pelagic cormorant	46 INDIV.	X	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	X	FEB-AUG	-	-
	Western gull	21 INDIV.	X	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	X	MAR-SEP	-	-
	Pelagic cormorant	15 INDIV.	X	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	X	FEB-AUG	-	-
	Rhinoceros auklet	1 INDIV.	X	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	X	MAR-AUG	-	-
585	Black oystercatcher	1 INDIV.	X	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	X	FEB-AUG	-	-
616	Black oystercatcher	11 INDIV.	X	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	X	FEB-AUG	-	-
	Rhinoceros auklet	5 INDIV.	X	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	X	MAR-AUG	-	-
619	Pigeon guillemot	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
679	Sooty shearwater	HIGH						X	X	X	X				-	-	JUN-SEP
682	Sooty shearwater	MODERATE			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	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	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	MODERATE	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		-	-	-
	Pacific loon	MODERATE	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	X	-	-	-
	Pigeon guillemot	MODERATE			X	X	X	X	X	X	X				-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	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			-	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	X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion			X	X	X	X	X	X						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass					X	X	X	X	X					-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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	X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	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	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
383	Pismo clam	HIGH	X	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	X	-	-	-	-
391	California sea lion	3-140 INDIV.	X	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	X	-	-	-	-
393	California sea lion	26 INDIV.	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.

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	

Central California: ESIMAP 9

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
382	Brown pelican	E E HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
403	Brown pelican	E E 100S	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
404	Brown pelican	E E MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
410	Brown pelican	E E MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
487	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	114 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	48 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	28 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
488	Brandt's cormorant	15 INDIV.	X	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	X	FEB-AUG	-	-
	Western gull	26 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
492	Pelagic cormorant	18 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	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
522	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	277 INDIV.	X	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	X	MAR-SEP	-	-
	Pigeon guillemot	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	24 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
561	Brandt's cormorant	321 INDIV.	X	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	X	MAR-SEP	-	-
	Pigeon guillemot		X	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	X	MAR-AUG	-	-
587	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	1309 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	44 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
637	Black oystercatcher	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	174 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	242 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	49 INDIV.	X	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	X	X	-	-	APR-OCT
692	Cassin's auklet	MODERATE	X	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	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	X	-	MAR-APR SEP-OCT	-
	Gulls	MODERATE	X	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	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	X	-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	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
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	X	X	X	-	-	-	-	APR-SEP

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	-	-	-	-
401	Harbor seal	47 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
402	Harbor seal	101 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
403	California sea lion	1038-2083 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUL	-
	Steller sea lion	T 1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
404	California sea lion	178-663 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUL	-
405	Harbor seal	8-33 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
406	Harbor seal	98-118 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
407	Harbor seal	32-36 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
408	Harbor seal	33-133 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
409	Harbor seal	23 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
410	California sea lion	697-1482 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUL	-
	Steller sea lion	T 2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
411	Northern elephant seal	LOW	X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	-	DEC-MAR	MAY-JUN
426	Gray whale		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	X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
686	Harbor porpoise	1600 INDIV.	X	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	-	-	-	-
	Bottlenose dolphin	MODERATE	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	-	-	-	-
	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	X	-	-	-	-
	Long-beaked common dolphin	MODERATE	X	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	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	LOW	X	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	X	-	-	-	-
	Sea lions	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 9 (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
692	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	Internesting	Juveniles	Adults
692	Leatherback sea turtle	E LOW	- - - - - X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Seabird colony, February-August.
2	California sea lion rookeries, May-August.
3	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

PARK:

HUN#	Name	Contact	Phone
252	MONTANA DE ORO SP	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
335	DIABLO CANYON NUCLEAR POWERPLANT		

Central California: ESIMAP 10

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
1	Western snowy plover	T	X X X X X X X X X X X X	MAR-SEP	-	-
9	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Gulls		X X X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
10	California least tern	E E	X X X X X X X X X	MAY-AUG	-	-
	Gulls		X X X X X X X X X X X X	-	-	-
	Shorebirds		X 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 X	MAR-SEP	-	-
14	California black rail	T	X X X X X X X X X X X X	MAR-JUN	-	-
15	American white pelican		X X X X X X X X X X X X	-	-	-
	Brant	HIGH	X X X X X X X X X	-	FEB-JUN OCT-DEC	-
	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	California condor	E E	X X X X X X X X X X X X	-	-	-
	Dabbling ducks		X X X X X X X X X X	-	SEP-MAR	-
	Diving birds		X X X X X X X X X X X X	-	-	-
	Diving ducks		X X X X X X X X X X	-	SEP-MAY	-
	Loons		X X X X X X X X X	-	OCT-MAY	-
	Shorebirds	HIGH	X X X X X X X X X X X X	-	-	-
	Terns		X X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X X X	FEB-AUG	-	-
19	Brant	HIGH	X X X X X X X X X	-	FEB-JUN OCT-DEC	-
	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
23	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
497	Double-crested cormorant	331 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
544	Black oystercatcher	2 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Brandt's cormorant	117 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Double-crested cormorant	24 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
	Pelagic cormorant	53 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	24 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	114 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
574	Black oystercatcher	6 INDIV.	X 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 X	MAR-SEP	-	-
	Pigeon guillemot	102 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	40 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
625	Pigeon guillemot	56 INDIV.	X 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 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 X	-	-	-
	Clark's grebe	MODERATE	X 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 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 X X	-	MAR-APR SEP-OCT	-
	Gulls	MODERATE	X X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X X X X X X X	-	OCT-APR	-
	Loons	LOW	X 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 X	-	-	-
	Pacific loon	MODERATE	X X X X X X X X X X	-	OCT-MAY	-
	Pelicans	MODERATE	X 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 X	-	-	-
	Pigeon guillemot	MODERATE	X X X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	X X X X X X X X X X X X	-	-	-
	Shearwaters	MODERATE	X X X X X X X X X X X X	-	-	-
	Surf scoter	MODERATE	X 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 X	-	MAR-APR SEP-NOV	-
	White-winged scoter	MODERATE	X 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
12	Steelhead	T	X 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 X	JAN-DEC	-	-	-	JAN-DEC
13	Steelhead	T	X X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
16	California halibut		X X X X X X X X X X X X	-	-	-	JAN-DEC	-
	Leopard shark		X X X X X X X X X X X X	MAR-JUN	-	-	JAN-DEC	-
	Nursery fish		X X X X X X X X X X X X	-	-	-	JAN-DEC	-
	Rockfish		X X X X X X X X X X X X	-	-	-	JAN-DEC	-
	Striped bass		X X X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Surfperch		X X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	APR-NOV
17	Barred surfperch		X 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 X X	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
19	Barred surfperch		X 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 X X	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
22	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 X	-	-	-	-	APR-SEP

HABITAT:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
18	Eelgrass	PATCHY-DENSE	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
16	Clams		X X X X X X X X X X X X	-	-	-	-	JAN-DEC

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 10 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
20	Morro shoulderband	E	X X X X X X X X X X X X	-	-	-	-	JAN-DEC
21	Pismo clam	MODERATE	X 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
11	Harbor seal	50-93 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X X X X X X	-	DEC-FEB	-	-
659	Sea otter	T 137 INDEP / 3 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
660	Sea otter	T 247 INDEP / 36 PUPS	X 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 X	JUL-SEP	JUN-AUG	-	-
692	Blue whale	E MODERATE	X 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 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	-	-	-	-
	Humpback whale	E MODERATE	X 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 X	-	-	-	-
	Long-beaked common dolphin	MODERATE	X 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 X	-	MAR-MAY	-	-
	Northern right whale	E LOW	X 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 X	-	-	-	-
	Pacific white-sided dolphin	LOW	X 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 X	-	-	-	-
	Sea lions	MODERATE	X X X X X X X X X X X X	-	-	-	-
	Seals	LOW	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X 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
12	California red-legged frog	T	X X X X X X X X X X X X	-	-	-	JUN-OCT	-
22	California red-legged frog	T	X X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	Western pond turtle		X X X X X X X X X X X X	-	-	-	JUN-OCT	-
24	California red-legged frog	T	X X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	Western pond turtle		X X X X X X X X X X X X	-	-	-	JUN-OCT	-
692	Leatherback sea turtle	E LOW	X X X X X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers nesting, March-September.
2	Threatened/endangered or rare terrestrial plants potentially in the area.

AQUACULTURE:

HUN#	Name	Contact	Phone
24	WILLIAMS SHELLFISH FARMS		805/782-0502

BOAT RAMP:

HUN#	Name	Contact	Phone
83	MORRO BAY BOAT RAMP		

COAST GUARD:

HUN#	Name	Contact	Phone
90	UNITED STATES COAST GUARD STATION		

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		
112	POINT BUCHON		

SAMPLING SITE:

HUN#	Name	Contact	Phone
132	PISCO:HAZARDS	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
166	ATASCADERO BEACH - SMCA	CDF&G	
187	MORRO BEACH - SMCA	CDF&G	
188	MORRO DUNES ER	CA DEPT OF FISH AND GAME	

MARINA:

HUN#	Name	Contact	Phone
211	MARINA		
213	MORRO BAY CITY HARBOR		

PARK:

HUN#	Name	Contact	Phone
249	LOS OSOS OAKS SR	CA DEPT OF PARKS AND RECREATION	
252	MONTANA DE ORO SP	CA DEPT OF PARKS AND RECREATION	
256	MORRO BAY SP	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
332	BAY SHORES		
333	CENTRAL COAST SEAFOOD INC.		
334	CORDERO WINSTON CO.		
337	FINIKY FISH MARKET		
344	MORRO BAY AQUARIUM		
345	MORRO BAY CITY DESAL PLANT		
346	MORRO BAY POWERPLANT		

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 11

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
1	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
9	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shorebirds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
25	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X	X	-	-	-
30	Black oystercatcher		X	X	X			X	X	X	X	X	X	X	-	-	-
	Pigeon guillemot		X	X	X	X	X	X	X	X					-	-	-
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
692	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Surf scoter	MODERATE	X	X	X	X		X	X	X	X				-	MAR-APR	-
	Western grebe	MODERATE	X	X	X	X				X	X	X	X		-	SEP-DEC	-
	White-winged scoter	MODERATE	X	X	X	X				X	X	X			-	MAR-APR	-
	Cassin's auklet	MODERATE	X	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	-
	Common murre	MODERATE	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	-
	Gulls	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Horned grebe	LOW	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	MODERATE	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	X	-	-	-
	Pigeon guillemot	MODERATE	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
3	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
12	Steelhead	T	X	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	X	JAN-DEC	-	-	-	JAN-DEC
17	Barred surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass					X	X	X	X	X					-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
26	Steelhead	T	X	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	X	JAN-DEC	-	-	-	JAN-DEC
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
21	Pismo clam	MODERATE	X	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
27	Harbor seal	52-207 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
28	Harbor seal	18-81 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
426	Gray whale		X	X	X	X				X	X				-	DEC-FEB	-	-
658	Sea otter	T 522 INDEP / 80 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR	-
																	SEP-NOV	-
659	Sea otter	T 137 INDEP / 3 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR	-
																	SEP-NOV	-
677	Harbor porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
686	Harbor porpoise	1600 INDIV.	X	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		-	-	-	-
	Bottlenose dolphin	MODERATE	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	-	-	-	-
	Humpback whale	E MODERATE		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	MODERATE	X	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	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	LOW	X	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	X	-	-	-	-
	Sea lions	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Seals	LOW	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	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
12	California red-legged frog	T						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	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.
3	Threatened/endangered or rare terrestrial plants potentially in the area.

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 11 (cont.)

HUMAN USE RESOURCES: (cont.)

AQUACULTURE:

HUN#	Name	Contact	Phone
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13	CENTRAL COAST ABALONE		

BEACH:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
49	MORRO STRAND STATE BEACH		

DIVING:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
107	CAYUCOS PIER, STATE BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
126	PISCO:CAYUCOS	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
166	ATASCADERO BEACH - SMCA	CDF&G	

PARK:

HUN#	Name	Contact	Phone
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238	CAYUCOS SB	CA DEPT OF PARKS AND RECREATION	
239	ESTERO BAY	CA DEPT OF PARKS AND RECREATION	
257	MORRO STRAND SB	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 12

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
25	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
679	Sooty shearwater	HIGH						X	X	X	X				-	-	JUN-SEP
682	Sooty shearwater	MODERATE			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	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	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	MODERATE	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	X			-	OCT-MAY	-
	Marbled murrelet	E T LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pacific loon	MODERATE	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	X	-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	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			-	MAR-APR OCT-NOV	-
693	Black-footed albatross	MODERATE	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				-	-	-
695	Cassin's auklet	HIGH						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
12	Steelhead	T	X	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	X	JAN-DEC	-	-	-	JAN-DEC
35	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickpleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
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

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
31	Harbor seal	139-253 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
32	Harbor seal	26 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
33	Harbor seal	36-86 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
34	Harbor seal	38-104 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
426	Gray whale		X	X	X	X						X	X		-	DEC-FEB	-	-
658	Sea otter	T 522 INDEP / 80 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
686	Harbor porpoise	1600 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
692	Blue whale	E MODERATE						X	X	X	X				-	-	-	-
	Bottlenose dolphin	MODERATE	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	-	-	-	-
	Humpback whale	E MODERATE		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	MODERATE	X	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	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	LOW	X	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	X	-	-	-	-
	Sea lions	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Seals	LOW	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
693	Baird's beaked whale	LOW				X	X	X	X	X					-	-	-	-
	California sea lion	LOW	X	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	X	-	-	-	-
	Dwarf sperm whale	LOW	X	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	X	-	-	-	-
	Guadalupe fur seal	T T LOW	X	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	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	-	-	-	-
	Mesoplodont beaked whales	LOW	X	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	X	-	MAR-MAY	-	-

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 12 (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
693	Northern elephant seal	MODERATE	X 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 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 X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X 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 X	-	-	-	-
	Risso's dolphin	MODERATE	X 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 X	-	SEP-MAR	-	-
	Short-beaked common dolphin	MODERATE	X 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 X	-	-	-	-
	Sperm whale	E LOW	X 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 X	-	-	-	-
699	Blue whale	E MODERATE	X 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 X	-	-	-	-
	Dolphins	LOW-MODERATE	X 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 X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
12	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
692	Leatherback sea turtle	E LOW	X X X X X X X X	-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW	X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

AQUACULTURE:

HUN#	Name	Contact	Phone
22	THE ABALONE FARM		

PARK:

HUN#	Name	Contact	Phone
239	ESTERO BAY	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
350	THE ABALONE FARM		

Central California: ESIMAP 13

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
1	Western snowy plover	T	X X X X X X X X X X X	MAR-SEP	-	-
36	Brown pelican	E E 5-74 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
37	Shorebirds		X X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
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 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 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 X	-	OCT-APR	-
	Loons	LOW	X 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 X	-	OCT-MAY	-
	Pelicans	MODERATE	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 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 X	-	MAR-APR SEP-DEC	-
	Western grebe	MODERATE	X 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 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
38	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 X X X	-	-	-	-	APR-SEP

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
39	Harbor seal	26-67 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
40	Harbor seal	21-69 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
41	California sea lion	33-164 INDIV.	X X X X X X X X X X X	-	-	-	-
42	Harbor seal	48-78 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
43	Harbor seal	28 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
44	Northern elephant seal		X X X X X X X X X X X	DEC-MAR	-	DEC-MAR	MAY-JUN
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X X X X	-	DEC-FEB	-	-
658	Sea otter	T 522 INDEP / 80 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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
38	California red-legged frog	T	X X X X X X X X X X	-	-	-	JUN-OCT	-
	Western pond turtle		X X X X X X X X X X	-	-	-	JUN-OCT	-
692	Leatherback sea turtle	E LOW	X X X 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
48	MOONSTONE STATE BEACH		
67	SAN SIMEON BEACH STATE PARK		

SAMPLING SITE:

HUN#	Name	Contact	Phone
125	PISCO:CAMBRIA ROCK	STEVE LONHART	831/647-4222
145	PISCO:RANCHO MARINO	PETE RAIMONDI	831/459-5674

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 13 (cont.)

HUMAN USE RESOURCES: (cont.)

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
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275	SAN SIMEON SP	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

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

Central California: ESIMAP 14

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
1	Western snowy plover	T	X X X X X X X X X X X	MAR-SEP	-	-
36	Brown pelican	E E 5-74 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
37	Shorebirds		X X X X X X X X X X X	-	-	-
	Waterfowl		X X X X X X X X X X X	-	-	-
46	Brown pelican	E E 24-185 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
47	Dabbling ducks		X X X X X X X X X X	-	SEP-MAR	-
	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	-	-
59	Brandt's cormorant		X X X X X X X X X X X	FEB-AUG	-	-
60	Shorebirds		X X X X X X X X X X X	-	-	-
582	Black oystercatcher	1 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	42 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	-	-
624	Pigeon guillemot	22 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	-	-	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 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 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 X	-	OCT-APR	-
	Loons	LOW	X 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 X	-	OCT-MAY	-
	Pelicans	MODERATE	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 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 X	-	MAR-APR SEP-DEC	-
	Western grebe	MODERATE	X 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 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
12	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
17	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	-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	JAN-DEC
38	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
57	Steelhead	T	X X X X X X X X X X X	NOV-APR	NOV-APR	NOV-JUN	JAN-DEC	NOV-APR
	Tidewater goby	E	X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
58	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	-	-	-	-	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	-	-	-	JAN-DEC	JAN-DEC
56	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
49	Harbor seal	15-71 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
50	Harbor seal	39 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
51	Harbor seal	54-88 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
52	Harbor seal	27-36 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
53	Harbor seal	35 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
54	Harbor seal	135-158 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
658	Sea otter	T 522 INDEP / 80 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-

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 14 (cont.)

BIOLOGICAL RESOURCES: (cont.)

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
12	California red-legged frog	T						X	X	X	X	X			-	-	-	JUN-OCT	-
38	California red-legged frog	T						X	X	X	X	X			-	-	-	JUN-OCT	-
	Western pond turtle							X	X	X	X	X			-	-	-	JUN-OCT	-
58	California red-legged frog	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	Western pond turtle							X	X	X	X	X			-	-	-	JUN-OCT	-
60	California red-legged frog	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	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	Numerous harbor seal haulouts, breeding March-May.
2	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

AIRPORT:

HUN#	Name	Contact	Phone
6	HEARST RANCH AIRPORT		

BEACH:

HUN#	Name	Contact	Phone
77	WILLIAM R. HEARST MEMORIAL STATE BEACH		

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		

SAMPLING SITE:

HUN#	Name	Contact	Phone
115	PISCO & USGS	STEVE LONHART	831/647-4222

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
244	HEARST SAN SIMEON SHM	CA DEPT OF PARKS AND RECREATION	
275	SAN SIMEON SP	CA DEPT OF PARKS AND RECREATION	
284	WILLIAM RANDOLPH HEARST MEMORIAL SB	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
348	SAN SIMEON DESAL PLANT		

WILDLIFE REFUGE:

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

Central California: ESIMAP 15

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
1	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
46	Brown pelican	E E 24-185 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
61	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
	Waterfowl		X	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	X	MAR-SEP	-	-
62	Brown pelican	E E 68-105 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
63	Brown pelican	E E 84-377 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
64	Brown pelican	E E 114-275 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
519	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	678 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
564	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	2627 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pigeon guillemot	29 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Rhinoceros auklet	3 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
	Western gull	34 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
633	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	7 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	14 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		-	-	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	X			-	OCT-MAY	-
	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			-	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					-	-	-
	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	-
692	Cassin's auklet	MODERATE	X	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	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	MODERATE	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	X			-	OCT-MAY	-
	Marbled murrelet	E T LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pacific loon	MODERATE	X	X	X	X	X			X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE		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	X	-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	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			-	MAR-APR OCT-NOV	-
693	Black-footed albatross	MODERATE	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			-	-	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			-	-	-
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
58	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
65	Pacific lamprey		X	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	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		-	-	-	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
56	Black abalone		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC

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 15 (cont.)

BIOLOGICAL RESOURCES: (cont.)

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
44	Northern elephant seal		X	X	X	X	X	X	X	X	X	X	X	X	DEC-MAR	-	DEC-MAR	MAY-JUN
62	California sea lion		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Harbor seal	25-79 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
64	California sea lion	136-464 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
66	Harbor seal	213-288 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
67	Harbor seal	121 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
68	California sea lion	503-2816 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUL	-
	Harbor seal	40-72 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
	Northern fur seal		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Steller sea lion	T 1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
69	Harbor seal	32-71 INDIV.	X	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	X	-	-	-	-
426	Gray whale		X	X	X	X								X X	-	DEC-FEB	-	-
658	Sea otter	T 522 INDEP / 80 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
691	Blue whale	E LOW							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	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	-	-	-	-
	Risso's dolphin	MODERATE	X	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	X	-	-	-	-
	Seals	LOW-MODERATE	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
692	Blue whale	E MODERATE							X	X	X	X	X	X	-	-	-	-
	Bottlenose dolphin	MODERATE	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	-	-	-	-
	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	X	-	-	-	-
	Long-beaked common dolphin	MODERATE	X	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	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	LOW	X	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	X	-	-	-	-
	Sea lions	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Seals	LOW	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
693	Baird's beaked whale	LOW							X	X	X	X	X	X	-	-	-	-
	California sea lion	LOW	X	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	X	-	-	-	-
	Dwarf sperm whale	LOW	X	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	X	-	-	-	-
	Guadalupe fur seal	T T LOW	X	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	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	-	-	-	-
	Mesoplodont beaked whales	LOW	X	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	X	-	MAR-MAY	-	-
	Northern elephant seal	MODERATE	X	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	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	X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X	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	X	-	-	-	-
	Risso's dolphin	MODERATE	X	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	X	-	SEP-MAR	-	-
	Short-beaked common dolphin	MODERATE	X	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	X	-	-	-	-
	Sperm whale	E LOW	X	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	X	-	-	-	-
699	Blue whale	E MODERATE							X	X	X	X	X	X	-	-	-	-
	Dall's porpoise	LOW	X	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	X	-	-	-	-
	Humpback whale	E MODERATE		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
58	California red-legged frog	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	Western pond turtle							X	X	X	X	X			-	-	-	JUN-OCT	-
65	California red-legged frog	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	Western pond turtle							X	X	X	X	X			-	-	-	JUN-OCT	-
691	Leatherback sea turtle	E LOW						X	X	X	X	X	X		-	-	-	-	MAY-NOV
692	Leatherback sea turtle	E LOW						X	X	X	X	X	X		-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW						X	X	X	X	X	X		-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Seabird colony, February-August.
2	Pinniped rookeries and haulouts, December-August.
3	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

COAST GUARD:

HUN#	Name	Contact	Phone
89	U S COAST GUARD RESERVE STATION		

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		

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 15 (cont.)

HUMAN USE RESOURCES: (cont.)

SAMPLING SITE:

HUN#	Name	Contact	Phone
-----	-----	-----	-----
134	PISCO:LACRUZ ROCK	STEVE LONHART	831/647-4222
141	PISCO:POINT SIERRA	PETE RAIMONDI	831/459-5674

MARINE SANCTUARY:

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

WILDLIFE REFUGE:

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

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 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
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220	LOS PADRES NATIONAL FOREST	USDA FOREST SERVICE	

WILDLIFE REFUGE:

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

Central California: ESIMAP 17

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	X	-	JUL-NOV	-
75	Brown pelican	E E 50-787 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
470	Black oystercatcher	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	750 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Double-crested cormorant	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pelagic cormorant	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	349 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
528	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	26 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	-	-
550	Pelagic cormorant	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
577	Pelagic cormorant	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
591	Brandt's cormorant	372 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	-	-
636	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	275 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	4 INDIV.	X	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	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					-	-	-
	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		-	-	-
	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			-	-	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			-	-	-
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
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

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
77	Harbor seal	13 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
78	California sea lion	143-233 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Steller sea lion	T 1 INDIV.				X	X	X	X						-	-	MAY-AUG	-
79	Harbor seal	10-31 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
80	Harbor seal	9-33 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
81	California sea lion	2-164 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Harbor seal	14 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
82	Harbor seal	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
83	California sea lion	18-61 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
84	Northern elephant seal		X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	-	DEC-MAR	APR-JUL
85	Pinnipeds	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
426	Gray whale		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		-	-	-	-
	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			-	-	-	-
	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	-	-	-	-
	Risso's dolphin	MODERATE	X	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	X	-	-	-	-
	Seals	LOW-MODERATE	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	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.

Central California: ESIMAP 17 (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
693	Baird's beaked whale	LOW	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	-	-	-	-
	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 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	-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW	X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Seabird colony, February-August.
2	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		

SAMPLING SITE:

HUN#	Name	Contact	Phone
127	PISCO:DUCK POND	PETE RAIMONDI	831/459-5674
143	PISCO:QUALITATIVE	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	

WILDLIFE REFUGE:

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

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		-	-	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	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	-	-	-
	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			-	-	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			-	-	-
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	-	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	-	-	-	-
	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			-	-	-	-
	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	

Central California: ESIMAP 19

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	-
436	Western gull	2 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
449	Pelagic cormorant	11 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
501	Black oystercatcher	1 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Western gull	4 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
527	Brandt's cormorant	114 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
595	Brandt's cormorant	7 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Double-crested cormorant	26 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
	Pelagic cormorant	33 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Western gull	7 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	-	-	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 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 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	-	-	-
	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	-	-	-
	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
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
74	Black abalone		X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
92	Invertebrates	HIGH	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
82	Harbor seal	1 INDIV.	X 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 X	-	-	-	-
92	Harbor seal	22-48 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
93	Harbor seal	134-173 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
94	Harbor seal	34 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
95	California sea lion	6-72 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Harbor seal	19 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
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	-
672	Sea otter	T 268 INDEP / 57 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	-	-	-	-
	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	-	-	-	-
	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	-	-	-	-
	Risso's dolphin	MODERATE	X 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 X	-	-	-	-
	Seals	LOW-MODERATE	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X 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 X	-	-	-	-
	Cuvier's beaked whale	LOW	X 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 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 19 (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
693	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 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 X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
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.

SAMPLING SITE:

HUN#	Name	Contact	Phone
143	PISCO:QUALITATIVE	STEVE LONHART	831/647-4222
144	PISCO:QUANTITATIVE	STEVE LONHART	831/647-4222

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
167	BIG CREEK - SMR	CDF&G	

MARINA:

HUN#	Name	Contact	Phone
215	POINT LOPEZ		

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
245	JOHN LITTLE SR	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

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

Central 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
86	Brown pelican	E E 4-526 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
100	California condor	E E HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
436	Western gull	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
442	Brandt's cormorant	321 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Double-crested cormorant	5 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pelagic cormorant	26 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	32 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	-	-
467	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	323 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pigeon guillemot	12 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	-	-
508	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	196 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
520	Brandt's cormorant	235 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pelagic cormorant	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
534	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	106 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pigeon guillemot	15 INDIV.	X	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	X	MAR-AUG	-	-
557	Double-crested cormorant		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pigeon guillemot	5 INDIV.	X	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	X	MAR-AUG	-	-
558	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	172 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pelagic cormorant	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	7 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
559	Brandt's cormorant	15 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pigeon guillemot	165 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	-	-
631	Black oystercatcher	1 INDIV.	X	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	X	MAR-SEP	-	-
682	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X	X	X	X	-	-	APR-OCT
688	Cassin's auklet	MODERATE	X	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	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	MODERATE	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	MODERATE	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			-	OCT-MAY	-
	Pelicans	MODERATE		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					-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Shearwaters	LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X	X			-	-	APR-OCT
	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			-	MAR-APR OCT-NOV	-
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		-	-	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		-	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		-	-	-
	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					-	-	-
	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	-
693	Black-footed albatross	MODERATE	X	X	X	X	X	X	X				X		-	-	-
	Common murre	LOW-MODERATE	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		-	-	-
	Phalaropes	MODERATE	X	X	X	X	X	X	X	X	X	X			-	-	-
	Rhinoceros auklet	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		-	-	-
	Sooty shearwater	LOW		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		-	-	-
	Storm-petrels	MODERATE		X	X	X	X	X	X	X	X				-	-	-
697	Cassin's auklet	MODERATE	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
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	-

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 20 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
421	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
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	-	-	-	-
100	California sea lion	36-722 INDIV.	X X X X X X X X X X X X	-	-	MAY-JUL	-
101	Harbor seal	2-18 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
102	Harbor seal	27 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
103	Harbor seal	3-19 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
672	Sea otter	T 268 INDEP / 57 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
688	Bottlenose dolphin	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	MODERATE	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
	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	LOW	X 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 X	-	-	-	-
	Seals	LOW-MODERATE	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X X	-	-	-	-
690	Blue whale	E HIGH	X X X X X X	-	-	-	-
	Dall's porpoise	HIGH	X X X X X X X X X X X X	-	-	-	-
	Dolphins	HIGH	X X X X X X X X X X X X	-	-	-	-
	Humpback whale	E HIGH	X X X X X X X X	-	-	-	-
	Sea lions	HIGH	X X X X X X X X X X X X	-	-	-	-
691	Blue whale	E LOW	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	-	-	-	-
	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	-	-	-	-
	Risso's dolphin	MODERATE	X 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 X	-	-	-	-
	Seals	LOW-MODERATE	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X 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 X	-	-	-	-
	Cuvier's beaked whale	LOW	X 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 X	-	-	-	-
	Fin whale	E MODERATE	X 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 X	-	-	-	-
	Harbor seal	LOW	X 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 X	-	-	-	-
	Long-beaked common dolphin	LOW	X 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 X	-	-	-	-
	Minke whale	LOW	X 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 X	-	-	-	-
	Northern fur seal	MODERATE	X 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 X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X 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 X	-	-	-	-
	Risso's dolphin	MODERATE	X 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 X	-	SEP-MAR	-	-
	Short-beaked common dolphin	MODERATE	X 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 X	-	-	-	-
	Sperm whale	E LOW	X 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 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 X	-	-	-	-
	Dolphins	LOW-MODERATE	X 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
688	Leatherback sea turtle	E MODERATE	X X X X X X X X	-	-	-	-	MAY-NOV
691	Leatherback sea turtle	E LOW	X X X X X X X X	-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW	X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Numerous seabird colonies, February-August.
2	California sea lion rookery, May-August.
3	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

DIVING:

HUN#	Name	Contact	Phone
109	DIVING		

SAMPLING SITE:

HUN#	Name	Contact	Phone
118	PISCO:ANDERSON LANDING	STEVE LONHART	831/647-4222
138	PISCO:PARTINGTON POINT	PETE RAIMONDI	831/459-5674
143	PISCO:QUALITATIVE	STEVE LONHART	831/647-4222

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 20 (cont.)

HUMAN USE RESOURCES: (cont.)

SAMPLING SITE: (cont.)

HUN#	Name	Contact	Phone
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144	PISCO:QUANTITATIVE	STEVE LONHART	831/647-4222
153	PISCO:SYCAMORE DRAW	STEVE LONHART	831/647-4222

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
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184	JULIA PFEIFFER BURNS - SMCA	CDF&G	

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
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220	LOS PADRES NATIONAL FOREST	USDA FOREST SERVICE	

PARK:

HUN#	Name	Contact	Phone
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246	JULIA PFEIFFER BURNS SP	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

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

Central California: ESIMAP 21

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	-
429	California condor	E E	X X X X X X X X X X X X	-	-	-
481	Brandt's cormorant	37 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Double-crested cormorant		X X X X X X X X X X X X	MAR-AUG	-	-
	Pelagic cormorant	18 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	18 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	1 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
563	Double-crested cormorant		X X X X X X X X X X X X	MAR-AUG	-	-
	Pelagic cormorant	9 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	-	-
643	Pelagic cormorant	11 INDIV.	X 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 X	FEB-AUG	-	-
	Western gull	2 INDIV.	X X X X X X X X X X X X	MAR-AUG	-	-
688	Cassin's auklet	MODERATE	X X X X X X X X X X X X	-	-	-
	Clark's grebe	MODERATE	X 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 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 X X	-	MAR-APR SEP-OCT	-
	Gulls	MODERATE	X X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X X X X X X X	-	OCT-APR	-
	Loons	MODERATE	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 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	-	JUL-NOV	-
	Phalaropes	LOW	X X X X X X X X X X X X	-	-	-
	Pigeon guillemot	MODERATE	X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	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	MODERATE	X X X X X X X X X	-	-	APR-OCT
	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	-
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 X X X X	-	-	-
695	Cassin's auklet	HIGH	X X X 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
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
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
104	Harbor seal	14-35 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
672	Sea otter	T 268 INDEP / 57 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
688	Bottlenose dolphin	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	MODERATE	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
	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	LOW	X 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 X	-	-	-	-
	Seals	LOW-MODERATE	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X X	-	-	-	-
690	Blue whale	E HIGH	X X X X X X X X X X	-	-	-	-
	Dall's porpoise	HIGH	X X X X X X X X X X X X	-	-	-	-
	Dolphins	HIGH	X X X X X X X X X X X X	-	-	-	-
	Humpback whale	E HIGH	X X X X X X X X	-	-	-	-
	Sea lions	HIGH	X 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 X	-	-	-	-
	California sea lion	LOW	X 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 X	-	-	-	-
	Dwarf sperm whale	LOW	X 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 X	-	-	-	-
	Guadalupe fur seal	T T LOW	X 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 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	-	-	-	-
	Mesoplodont beaked whales	LOW	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 21 (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
693	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 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 X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
688	Leatherback sea turtle	E MODERATE	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
59	PFEIFFER BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
144	PISCO:QUANTITATIVE	STEVE LONHART	831/647-4222

MARINA:

HUN#	Name	Contact	Phone
214	PFEIFFER POINT		

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
228	ANDREW MOLERA SP	CA DEPT OF PARKS AND RECREATION	
265	PFEIFFER BIG SUR SP	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

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

Central California: ESIMAP 22

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
1	Western snowy plover	T	X X X X X X X X X X X	MAR-SEP	-	-
86	Brown pelican	E E 4-526 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
105	Brown pelican	E E 2-410 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
112	Shorebirds		X X X X X X X X X X X	-	-	-
114	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
	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	-	-	-
417	Diving birds	1500 INDIV.	X X X X X X X	FEB-AUG	-	-
	Gulls	100 INDIV.	X X X X X X X	FEB-AUG	-	-
	Seabirds	2000 INDIV.	X X X X X X X	FEB-AUG	-	-
429	California condor	E E	X X X X X X X X X X X	-	-	-
515	Black oystercatcher	10 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Brandt's cormorant	29 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Common murre	613 INDIV.	X X X X X X X X X X X	DEC-JUL	-	-
	Pigeon guillemot	20 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	-	-
541	Pigeon guillemot	5 INDIV.	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	MAR-AUG	-	-
583	Black oystercatcher	2 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	33 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	3 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
688	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	MODERATE	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	LOW	X X X X X X X X X X X	-	-	-
	Sooty shearwater	MODERATE	X X X X X X X X X X	-	-	APR-OCT
	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
76	Steelhead	T	X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
106	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 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
109	Invertebrates	HIGH DIVERSITY	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	-	-	-	-
107	California sea lion	26-60 INDIV.	X X X X X X X X X X X	-	-	-	-
108	Harbor seal	135-168 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
110	Harbor seal	63-82 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
111	Northern elephant seal		X X X X X X X X X X X	NOV-MAR	-	DEC-MAR	APR-JUL
113	Harbor seal	800 INDIV.	X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X	-	DEC-FEB	-	-
671	Sea otter	T 95 INDEP / 15 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
672	Sea otter	T 268 INDEP / 57 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
688	Bottlenose dolphin	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	MODERATE	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
	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	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	-	-	-	-
	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	-	-	-	-
690	Blue whale	E HIGH	X X X X X X X X X	-	-	-	-
	Dall's porpoise	HIGH	X X X X X X X X X X X	-	-	-	-
	Dolphins	HIGH	X X X X X X X X X X X	-	-	-	-
	Humpback whale	E HIGH	X X X X X X X X X	-	-	-	-
	Sea lions	HIGH	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 22 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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				-	-	-	JUN-OCT	-
106	California red-legged frog	T						X	X	X	X				-	-	-	JUN-OCT	-
688	Leatherback sea turtle	E MODERATE						X	X	X	X	X	X		-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers nesting, March-September.
2	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.

SAMPLING SITE:

HUN#	Name	Contact	Phone
119	PISCO:ANDREW MOLERA	PETE RAIMONDI	831/459-5674
142	PISCO:QUALITATIVE	STEVE LONHART	831/647-4222
156	PISCO:WRECK BEACH	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
228	ANDREW MOLERA SP	CA DEPT OF PARKS AND RECREATION	
270	POINT SUR SHP	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

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

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 23

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
105	Brown pelican	E E 2-410 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
112	Shorebirds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
416	Diving birds	15000 INDIV.				X	X	X	X	X					APR-AUG	-	-
	Gulls	200 INDIV.				X	X	X	X	X					APR-AUG	-	-
417	Diving birds	1500 INDIV.	X	X	X	X	X	X	X	X					FEB-AUG	-	-
	Gulls	100 INDIV.	X	X	X	X	X	X	X	X					FEB-AUG	-	-
	Seabirds	2000 INDIV.	X	X	X	X	X	X	X	X					FEB-AUG	-	-
429	California condor	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
450	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	35 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	36 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	38 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
471	Pelagic cormorant	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
475	Black oystercatcher	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	750 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	1050 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant	46 INDIV.	X	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	X	FEB-AUG	-	-
	Western gull	12 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
517	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	3 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	-	-
526	Black oystercatcher	4 INDIV.	X	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	X	FEB-AUG	-	-
	Western gull	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
596	Black oystercatcher	4 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	-	-
620	Black oystercatcher	1 INDIV.	X	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	X	MAR-SEP	-	-
	Pigeon guillemot	15 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	-	-
621	Black oystercatcher	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	7 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	7 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
644	Black oystercatcher	5 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	7 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	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
688	Cassin's auklet	MODERATE	X	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	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	MODERATE	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	MODERATE	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	X	-	-	-
	Pacific loon	MODERATE	X	X	X	X	X			X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE		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	X	-	-	-
	Pigeon guillemot	MODERATE	X	X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	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	MODERATE		X	X	X	X	X	X	X	X	X			-	-	APR-OCT
	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			-	MAR-APR OCT-NOV	-
693	Black-footed albatross	MODERATE	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		-	-	-
695	Cassin's auklet	HIGH							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			-	-	-

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
74	Black abalone		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
121	Black abalone	HIGH	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
53	Harbor seal	35 INDIV.	X	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	X	-	-	-	-
115	Harbor seal	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-

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Central California: ESIMAP 23 (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
116	Harbor seal	11 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
117	Harbor seal	45 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
118	California sea lion	23-564 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Steller sea lion	T 1 INDIV.	X X X X X X X X X X X X	-	-	-	-
119	Harbor seal	37-51 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
120	Harbor seal	15 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
670	Sea otter	T 91 INDEP / 11 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
671	Sea otter	T 95 INDEP / 15 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
688	Bottlenose dolphin	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	MODERATE	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
	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	LOW	X 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 X	-	-	-	-
	Seals	LOW-MODERATE	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X X	-	-	-	-
690	Blue whale	E HIGH	X X X X X X	-	-	-	-
	Dall's porpoise	HIGH	X X X X X X X X X X X X	-	-	-	-
	Dolphins	HIGH	X X X X X X X X X X X X	-	-	-	-
	Humpback whale	E HIGH	X X X X X X X X	-	-	-	-
	Sea lions	HIGH	X X X X X X X X X X X X	-	-	-	-
693	Baird's beaked whale	LOW	X X X X X	-	-	-	-
	California sea lion	LOW	X 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 X	-	-	-	-
	Dwarf sperm whale	LOW	X 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 X	-	-	-	-
	Guadalupe fur seal	T T LOW	X 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 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	-	-	-	-
	Mesoplodont beaked whales	LOW	X 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 X	-	MAR-MAY	-	-
	Northern elephant seal	MODERATE	X 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 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 X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X 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 X	-	-	-	-
	Risso's dolphin	MODERATE	X 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 X	-	SEP-MAR	-	-
	Short-beaked common dolphin	MODERATE	X 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 X	-	-	-	-
	Sperm whale	E LOW	X 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 X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interneesting	Juveniles	Adults
76	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
688	Leatherback sea turtle	E MODERATE	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	Seabird colony, February-August.
2	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.
3	California sea lion haulout year-round.

SAMPLING SITE:

HUN#	Name	Contact	Phone
143	PISCO:QUALITATIVE	STEVE LONHART	831/647-4222

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
183	JOSHUA CREEK CANYON ER	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
240	GARRAPATA SP	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
338	GRANITE CANYON RESEARCH FACILITY		

WILDLIFE REFUGE:

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

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 24

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
1	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
105	Brown pelican	E E 2-410 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
112	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
122	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
124	Brown pelican	E E 95-235 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
125	Brown pelican	E E 20-67 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
126	Brown pelican	E E 74-266 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
127	Brown pelican	E E 204-630 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
128	Brown pelican	E E 172-348 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
129	Brown pelican	E E 11-160 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
130	Brown pelican	E E 52-371 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
131	Brown pelican	E E 461-2519 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
416	Diving birds	15000 INDIV.					X	X	X	X					APR-AUG	-	-
	Gulls	200 INDIV.					X	X	X	X					APR-AUG	-	-
455	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	6151 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pelagic cormorant	4 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	90 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
457	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	2651 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	16 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
468	Pelagic cormorant	198 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	88 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	86 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
510	Black oystercatcher	10 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	554 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pelagic cormorant	20 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	30 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
542	Pigeon guillemot	35 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	24 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
550	Pelagic cormorant	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
562	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	20 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
568	Black oystercatcher	3 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	33 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	10 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
607	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	18 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western gull	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
688	Cassin's auklet	MODERATE	X	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	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	MODERATE	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	MODERATE	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			-	OCT-MAY	-
	Pelicans	MODERATE		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					-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Shearwaters	LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X				-	-	APR-OCT
	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			-	MAR-APR OCT-NOV	-
693	Black-footed albatross	MODERATE	X	X	X	X	X	X	X				X		-	-	-
	Common murre	LOW-MODERATE	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		-	-	-
	Phalaropes	MODERATE	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		-	-	-
	Shearwaters	LOW	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Sooty shearwater	LOW		X	X	X	X	X	X	X	X				-	-	APR-OCT
	Xantus' murrelet	T MODERATE								X	X	X	X		-	-	-
695	Cassin's auklet	HIGH				X	X	X							-	-	-
696	Ashy storm-petrel	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Storm-petrels	MODERATE		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
76	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
123	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
	Pacific lamprey		X	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	X	-	-	-	JUN-OCT	OCT-JUN
149	Leopard shark	HIGH	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-	JAN-DEC	-
152	Barred surfperch		X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion			X	X	X	X	X	X						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass			X	X	X	X								-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
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		-	-	-	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	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							-	-	-	-	APR-SEP
428	Bat ray			X	X	X	X	X	X	X					MAR-AUG	-	-	-	MAR-SEP

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Central California: ESIMAP 24 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
428	Leopard shark		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Northern anchovy							X	X	X	X				-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine							X	X	X	X				-	-	-	-	JUN-SEP

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
151	Belgrass		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
74	Black abalone		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
121	Black abalone	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
148	Squid						X	X	X			X			MAY-JUN	-	-	-	MAY-JUN NOV-NOV
150	Squid							X	X	X			X		MAY-JUN	-	-	-	MAY-JUN NOV-NOV

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	X	-	-	MAR-MAY	-
85	Pinnipeds	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
120	Harbor seal	15 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
124	California sea lion	1-1124 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Harbor seal	28 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
126	California sea lion	243-685 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-JUL	-
	Harbor seal	111 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
128	Harbor seal	55-67 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
132	Harbor seal	74-80 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
133	Harbor seal	131-193 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
134	Harbor seal	68 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
135	Harbor seal	17 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
136	Harbor seal	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
137	Harbor seal	116 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
138	California sea lion	4-103 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Harbor seal	96-392 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
140	Harbor seal	42-253 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
141	Harbor seal	89 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
142	Harbor seal	12-44 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
144	California sea lion	30-2110 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Steller sea lion	T 1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
146	Harbor seal	20-25 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
147	Harbor seal		X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
426	Gray whale		X	X	X	X	X					X	X		-	DEC-FEB	-	-
668	Sea otter	T 287 INDEP / 9 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
669	Sea otter	T 254 INDEP / 40 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
670	Sea otter	T 91 INDEP / 11 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
688	Bottlenose dolphin	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	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
	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	LOW	X	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	X	-	-	-	-
	Seals	LOW-MODERATE	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
689	Blue whale	E LOW					X	X	X	X	X	X	X	X	-	-	-	-
	Dall's porpoise	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Dolphins	LOW	X	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	-	-	-	-
	Sea lions	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
690	Blue whale	E HIGH					X	X	X	X	X	X	X	X	-	-	-	-
	Dall's porpoise	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Dolphins	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Humpback whale	E HIGH		X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sea lions	HIGH	X	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	X	-	-	-	-
	Cuvier's beaked whale	LOW	X	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	X	-	-	-	-
	Fin whale	E MODERATE	X	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	X	-	-	-	-
	Harbor seal	LOW	X	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	X	-	-	-	-
	Long-beaked common dolphin	LOW	X	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	X	-	-	-	-
	Minke whale	LOW	X	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	X	-	-	-	-
	Northern fur seal	MODERATE	X	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	X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X	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	X	-	-	-	-
	Risso's dolphin	MODERATE	X	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	X	-	SEP-MAR	-	-
	Short-beaked common dolphin	MODERATE	X	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	X	-	-	-	-
	Sperm whale	E LOW	X	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	X	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Hatching	Interesting	Juveniles	Adults
29	California red-legged frog	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	-	-	JAN-DEC	JAN-DEC
76	California red-legged frog	T						X	X	X	X	X			-	-	-	JUN-OCT	-
123	California red-legged frog	T						X	X	X	X	X			-	-	-	JUN-OCT	-
688	Leatherback sea turtle	E MODERATE						X	X	X	X	X	X		-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW						X	X	X	X	X	X		-	-	-	-	MAY-NOV

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 24 (cont.)

HUMAN USE RESOURCES:

ALERT:

ID#	Description
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1	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.
2	Keep aircraft away from March-July.
3	Threatened/endangered or rare terrestrial plants potentially in the area.

AQUACULTURE:

HUN#	Name	Contact	Phone
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17	MONTEREY ABALONE CO		

BEACH:

HUN#	Name	Contact	Phone
---	-----	-----	-----
27	ASILOMAR STATE BEACH		
31	CARMEL BEACH CITY PARK		
43	LOVER'S POINT PARK AND BEACH		
44	MCABEE BEACH		
46	MONTEREY BEACH PARK		
71	SEVENTEEN MILE DRIVE		

BOAT RAMP:

HUN#	Name	Contact	Phone
---	-----	-----	-----
82	MONTEREY HARBOR		

COAST GUARD:

HUN#	Name	Contact	Phone
---	-----	-----	-----
88	MONTEREY COAST GUARD STATION	COMMANDING OFFICER	831/647-7303

DIVING:

HUN#	Name	Contact	Phone
---	-----	-----	-----
106	CARMEL RIVER STATE BEACH		
110	LOVER'S POINT PARK AND BEACH		
111	MONTEREY COAST GUARD PIER/BREAKWATER		
113	STILLWATER COVE		
114	WHALERS COVE		

SAMPLING SITE:

HUN#	Name	Contact	Phone
---	-----	-----	-----
133	PISCO:HOPKINS	PETE RAIMONDI	831/459-5674
140	PISCO:POINT LOBOS	PETE RAIMONDI	831/459-5674
144	PISCO:QUANTITATIVE	STEVE LONHART	831/647-4222
152	PISCO:STILLWATER COVE	PETE RAIMONDI	831/459-5674

HOIST:

HUN#	Name	Contact	Phone
---	-----	-----	-----
161	MONTEREY MUNICIPAL WHARF #1		
162	MONTEREY MUNICIPAL WHARF #2		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
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168	CARMEL BAY - SMCA	CDF&G	
180	HOPKINS - SMR	CDF&G	
191	PACIFIC GROVE - SMCA	CDF&G	
195	POINT LOBOS - SMR	CDF&G	

MARINA:

HUN#	Name	Contact	Phone
---	-----	-----	-----
209	BREAKWATER COVER MARINA		
212	MONTEREY HARBOR		

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
---	-----	-----	-----
231	ASILOMAR SB	CA DEPT OF PARKS AND RECREATION	
236	CARMEL RIVER SB	CA DEPT OF PARKS AND RECREATION	
243	HATTON CANYON	CA DEPT OF PARKS AND RECREATION	
254	MONTEREY SB	CA DEPT OF PARKS AND RECREATION	
255	MONTEREY SHP	CA DEPT OF PARKS AND RECREATION	
267	POINT LOBOS RANCH	CA DEPT OF PARKS AND RECREATION	
268	POINT LOBOS SR	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
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339	HOPKINS MARINE LABORATORY		
342	MONTEREY BAY AQUARIUM		
343	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE		

WILDLIFE REFUGE:

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

Central California: ESIMAP 25

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
153	Shorebirds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Western snowy plover	T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
688	Cassin's auklet	MODERATE	X	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	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	MODERATE	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	MODERATE	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	MODERATE	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	X	-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	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	MODERATE			X	X	X	X	X	X	X	X	X		-	-	APR-OCT
	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		-	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
152	Barred surfperch		X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion			X	X	X	X	X	X						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass				X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
154	Night smelt			X	X	X	X								FEB-JUN	-	-	-	FEB-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						-	-	-	-	APR-SEP
428	Bat ray				X	X	X	X	X	X					MAR-AUG	-	-	-	MAR-SEP
	Leopard shark		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Northern anchovy				X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine					X	X	X	X						-	-	-	-	JUN-SEP

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
148	Squid						X	X	X				X		MAY-JUN	-	-	-	MAY-JUN NOV-NOV
155	Globose dune beetle		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	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
668	Sea otter	T 287 INDEP / 9 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
688	Bottlenose dolphin	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	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
	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	LOW	X	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	X	-	-	-	-
	Seals	LOW-MODERATE	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
689	Blue whale	E LOW					X	X	X	X	X	X			-	-	-	-
	Dall's porpoise	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Dolphins	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Humpback whale	E MODERATE		X	X	X	X	X	X	X	X				-	-	-	-
	Sea lions	MODERATE	X	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
156	California legless lizard		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
688	Leatherback sea turtle	E MODERATE				X	X	X	X	X	X				-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers nesting, March-September.

AIRPORT:

HUN#	Name	Contact	Phone
7	MARINA MUNICIPAL AIRPORT		
9	MONTEREY PENINSULA AIRPORT		

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 25 (cont.)

HUMAN USE RESOURCES: (cont.)

BEACH:

HUN#	Name	Contact	Phone
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47	MONTEREY STATE BEACH		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
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171	DEL MONTE DUNES ER	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
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251	MARINA SB	CA DEPT OF PARKS AND RECREATION	
254	MONTEREY SB	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 26

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
153	Shorebirds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Western snowy plover	T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
158	American white pelican		X	X	X	X		X	X	X	X	X	X		-	-	-
	Brown pelican	E E 23-695 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	California least tern	E E		X	X	X	X	X	X	X					-	APR-SEP	-
	Cormorants	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Dabbling ducks	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-MAR	-
	Diving ducks	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-MAY	-
	Geese	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-MAR	-
	Grebes	COMMON	X	X	X	X				X	X	X	X		-	MAR-APR	-
																SEP-NOV	
	Gulls	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loons	COMMON	X	X	X	X				X	X	X			-	OCT-MAY	-
	Phalaropes	HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Raptors	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	-
	Shorebirds	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sooty shearwater	COMMON		X	X	X	X	X	X	X					-	-	-
	Wading birds	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
159	California least tern	E E LOW		X	X	X	X	X							-	APR-SEP	-
	Shorebirds		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	X	MAR-SEP	-	-
161	Wading birds	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
162	Western snowy plover	T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
163	Western snowy plover	T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
164	Western gull		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
167	Shorebirds		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	X	MAR-SEP	-	-
168	Brown pelican	E E 0-42 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
169	Brown pelican	E E 165-1086 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Diving birds		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	-	-	-
	Raptors		X	X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	-
	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
	Terns		X	X	X	X	X	X	X	X					-	-	-
	Wading birds		X	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	X	-	-	-
170	Gadwall		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Mallard		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	MAR-MAR	-
																SEP-OCT	
171	American avocet		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	AUG-APR	-
	Black-necked stilt		X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	MAR-APR	-
																AUG-SEP	
	Killdeer		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	AUG-MAR	-
172	Caspian tern	400 ADULTS		X	X	X	X	X	X	X	X				APR-AUG	MAR-APR	-
																AUG-OCT	
480	Western gull	10 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
496	Caspian tern	20 INDIV.		X	X	X	X	X	X	X					APR-AUG	MAR-APR	-
																AUG-OCT	
	Western gull	16 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
545	Western gull	16 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
679	Sooty shearwater	HIGH		X	X	X									-	-	JUN-SEP
682	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X				-	-	APR-OCT
684	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		-	MAR-APR	-
																SEP-NOV	
	Common murre	HIGH	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	MODERATE	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	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pacific loon	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE		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	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	X	-	-	-
	Shearwaters	LOW-MODERATE	X	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	LOW	X	X	X	X				X	X	X			-	MAR-APR	-
																OCT-NOV	
685	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	AUG-MAR	-
688	Cassin's auklet	MODERATE	X	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	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	MODERATE	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	MODERATE	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	MODERATE	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	X	-	-	-
	Pigeon guillemot	MODERATE	X	X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	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	MODERATE		X	X	X	X	X	X	X	X	X			-	-	APR-OCT
	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			-	MAR-APR	-
																OCT-NOV	
693	Black-footed albatross	MODERATE	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	X	-	-	-
697	Cassin's auklet	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 26 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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	X	JAN-DEC	-	-	-	JAN-DEC
152	Barred surfperch		X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion				X	X	X	X	X	X					MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass					X	X	X	X	X					-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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			APR-AUG	-	-	-	MAR-NOV
157	Bat ray	COMMON			X	X	X	X	X	X					MAR-AUG	-	-	-	MAR-SEP
	California halibut		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	English sole	VERY COMMON				X	X	X	X	X	X				-	-	-	MAY-OCT	-
	Gobies	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	-	JAN-DEC
	Jacksmelt	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Leopard shark	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	-
	Northern anchovy	COMMON	X	X	X	X	X	X	X	X	X	X			-	-	JAN-MAR SEP-OCT	MAR-OCT	MAR-OCT
	Pacific herring	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JAN-MAY	JAN-MAY	JAN-DEC	JAN-APR
	Pacific sanddab					X	X								-	-	-	APR-MAY	-
	Pacific staghorn sculpin	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	SEP-APR	JAN-DEC	JAN-DEC
	Speckled sanddab	VERY COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	-	AUG-DEC	JAN-DEC
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Striped bass					X	X	X	X	X					-	-	-	MAY-SEP	MAY-SEP
	Surfperch	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	APR-NOV
	Topsmelt	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-OCT	JAN-DEC	FEB-DEC
169	Pacific lamprey		X	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	X	-	-	-	JUN-OCT	OCT-JUN
173	Night smelt		X	X	X	X	X								JAN-JUN	-	-	-	JAN-JUN
427	California halibut		X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUN	-	-	FEB-SEP	JAN-DEC
	Salmon				X	X	X	X	X	X					-	-	-	-	APR-SEP
428	Bat ray				X	X	X	X	X	X					MAR-AUG	-	-	-	MAR-SEP
	Leopard shark		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Northern anchovy					X	X	X	X	X					-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine						X	X	X	X					-	-	-	-	JUN-SEP

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
151	Eelgrass		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
148	Squid						X	X	X				X		MAY-JUN	-	-	-	MAY-JUN NOV-NOV
160	Pismo clam	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	-	-	-	JUN-SEP
165	Pismo clam	MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	-	-	-	JUN-SEP
166	California brackishwater snail	HIGH	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	-	-	-	-
174	California sea lion	33 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
175	Harbor seal	298-303 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-
668	Sea otter	T 287 INDEP / 9 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR SEP-NOV	-
684	Blue whale	E LOW						X	X	X	X	X	X	X	-	-	-	-
	Bottlenose dolphin	MODERATE	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	-	-	-	-
	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	LOW	X	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	X	-	-	-	-
	Risso's dolphin	LOW	X	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	X	-	-	-	-
	Seals	LOW-MODERATE	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
688	Bottlenose dolphin	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	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	JUL-SEP	JUN-AUG	-	-
	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	LOW	X	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	X	-	-	-	-
	Seals	LOW-MODERATE	X	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	X	-	-	-	-
	Short-finned pilot whale	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
689	Blue whale	E LOW						X	X	X	X	X	X	X	-	-	-	-
	Dall's porpoise	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Dolphins	LOW	X	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	-	-	-	-
	Sea lions	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
693	Baird's beaked whale	LOW				X	X	X	X	X	X				-	-	-	-
	California sea lion	LOW	X	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	X	-	-	-	-
	Dwarf sperm whale	LOW	X	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	X	-	-	-	-
	Guadalupe fur seal	T T LOW	X	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	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	-	-	-	-
	Mesoplodont beaked whales	LOW	X	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	X	-	MAR-MAY	-	-
	Northern elephant seal	MODERATE	X	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	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	X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X	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	X	-	-	-	-
	Risso's dolphin	MODERATE	X	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	X	-	SEP-MAR	-	-
	Short-beaked common 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 26 (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
693	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 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 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
156	California legless lizard		X X X X X X X X X X X	-	-	-	-	JAN-DEC
176	Western pond turtle		X X X X X X X X X X	-	-	-	JUN-OCT	-
674	Leatherback sea turtle	E HIGH	X X X X X X X X X X	-	-	-	-	MAY-NOV
688	Leatherback sea turtle	E MODERATE	X X X X X X X X X X	-	-	-	-	MAY-NOV
693	Leatherback sea turtle	E LOW	X X X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers, March-July, no vehicles without escort.
2	Native dune vegetation.

AQUACULTURE:

HUN#	Name	Contact	Phone
19	MOSS LANDING WILDLIFE AREA		

BEACH:

HUN#	Name	Contact	Phone
66	SALINAS RIVER STATE BEACH		

BOAT RAMP:

HUN#	Name	Contact	Phone
81	BOAT RAMP		
84	MOSS LANDING HARBOR		
86	WOODWARD'S MARINA		

HOIST:

HUN#	Name	Contact	Phone
159	GRAVELLE'S BOAT YARD		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
173	ELKHORN SLOUGH - SMR	CDF&G	
174	ELKHORN SLOUGH NERR	CA DEPT OF FISH AND GAME	
186	MORO COJO NERR	CA DEPT OF FISH AND GAME	
189	MOSS LANDING WA	CA DEPT OF FISH AND GAME	
198	SANTA CRUZ LONG-TOED SALAMANDER NERR	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
258	MOSS LANDING SB	CA DEPT OF PARKS AND RECREATION	
272	SALINAS RIVER SB	CA DEPT OF PARKS AND RECREATION	
285	ZMUDOWSKI SB	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
336	ELKHORN SLOUGH NAT. EST. RESEARCH RES.		
347	MOSS LANDING MARINE LABORATORIES		

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
355	SALINAS RIVER NWR	US FISH AND WILDLIFE SERVICE	510/792-0222

Central California: ESIMAP 27

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
159	California least tern	E E LOW					X	X	X	X	X	X			-	APR-SEP	-
	Shorebirds		X	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	X	MAR-SEP	-	-
177	Shorebirds	HIGH	X	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	X	MAR-SEP	-	-
178	Diving birds		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	-	-	-
	Raptors		X	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	X	-	-	-
	Wading birds		X	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	X	-	-	-
179	Brown pelican	E E 23-695 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Phalaropes	HIGH	X	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	X	MAR-SEP	-	-
180	Wading birds		X	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	X	-	-	-
182	American white pelican		X	X	X	X		X	X	X	X	X	X	X	-	-	-
	Brown pelican	E E 23-695 INDIV.	X	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	-
	Cormorants	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Dabbling ducks	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-MAR	-
	Diving ducks	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-MAY	-
	Geese	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-MAR	-
	Grebes	COMMON	X	X	X	X				X	X	X	X		-	MAR-APR	-
																SEP-NOV	
	Gulls	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loons	COMMON	X	X	X	X				X	X	X			-	OCT-MAY	-
	Phalaropes	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Raptors	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	-
	Shorebirds	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sooty shearwater	COMMON				X	X	X	X	X	X				-	-	-
	Terns	COMMON			X	X	X	X	X	X	X				-	-	-
	Wading birds	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
184	California least tern	E E				X	X	X	X	X					-	APR-SEP	-
679	Sooty shearwater	HIGH							X	X	X	X			-	-	JUN-SEP
682	Sooty shearwater	MODERATE				X	X	X	X	X	X	X	X		-	-	APR-OCT
684	Cassin's auklet	MODERATE	X	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	HIGH	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	MODERATE	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	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pacific loon	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE			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	X	-	-	-
	Pigeon guillemot	MODERATE			X	X	X	X	X	X	X				-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	LOW-MODERATE	X	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	LOW	X	X	X	X				X	X	X			-	MAR-APR	-
																OCT-NOV	
685	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	AUG-MAR	-
687	Marbled murrelet	E T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	AUG-MAR	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
152	Barred surfperch		X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion				X	X	X	X	X	X					MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass				X	X	X	X	X						-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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
157	Bat ray	COMMON			X	X	X	X	X	X					MAR-AUG	-	-	-	MAR-SEP
	California halibut		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	English sole	VERY COMMON			X	X	X	X	X						-	-	-	MAY-OCT	-
	Gobies	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	JAN-JUN	-	-	-	JAN-DEC
	Jacksmelt	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Leopard shark	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	-
	Northern anchovy	COMMON	X	X	X	X	X	X	X	X	X				-	-	JAN-MAR	MAR-OCT	MAR-OCT
																	SEP-OCT		
	Pacific herring	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	JAN-MAY	JAN-MAY	JAN-DEC	JAN-APR
	Pacific sanddab				X	X									-	-	-	APR-MAY	-
	Pacific staghorn sculpin	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	-	-	SEP-APR	JAN-DEC	JAN-DEC
	Speckled sanddab	VERY COMMON	X	X	X	X	X	X	X	X	X	X	X	X	MAR-OCT	-	AUG-DEC	JAN-DEC	JAN-DEC
	Starry flounder		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	-
	Striped bass				X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Surfperch	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	APR-NOV
	Topsmelt	COMMON	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	APR-SEP	APR-OCT	JAN-DEC	FEB-DEC
183	Pacific lamprey		X	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	X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	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						-	-	-	-	APR-SEP
428	Bat ray				X	X	X	X	X	X					MAR-AUG	-	-	-	MAR-SEP
	Leopard shark		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Northern anchovy					X	X	X	X						-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine					X	X	X	X						-	-	-	-	JUN-SEP

INVERTEBRATE:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
155	Globose dune beetle		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
160	Pismo clam	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	-	-	-	JUN-SEP
165	Pismo clam	MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	-	-	-	JUN-SEP
181	Pismo clam	LOW	X	X	X	X	X	X	X	X	X	X	X	X	JUN-SEP	-	-	-	JUN-SEP

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
668	Sea otter	T 287 INDEP / 9 PUPS	X	X	X	X	X	X	X	X	X	X	X	X	-	-	JAN-MAR	-
684	Blue whale	E LOW						X	X	X	X	X	X		-	-	SEP-NOV	-

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 27 (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
684	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	-	-	-	-
	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	LOW	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	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	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
183	Western pond turtle		X X X X X	-	-	-	JUN-OCT	-
185	Santa Cruz long-toed salamander	E E	X X X X X X X X X X X	-	-	-	-	JAN-DEC
674	Leatherback sea turtle	E HIGH	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers, March-July, no vehicles without escort.
2	Threatened/endangered or rare terrestrial plants potentially in the area.

AIRPORT:

HUN#	Name	Contact	Phone
8	MONTEREY BAY ACADEMY LANDING STRIP		
12	WATSONVILLE MUNICIPAL AIRPORT		

BEACH:

HUN#	Name	Contact	Phone
75	SUNSET STATE BEACH		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
189	MOSS LANDING WA	CA DEPT OF FISH AND GAME	
198	SANTA CRUZ LONG-TOED SALAMANDER NERR	CA DEPT OF FISH AND GAME	
205	WATSONVILLE SLOUGH NERR	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
225	ELKHORN SLOUGH	THE NATURE CONSERVANCY	

PARK:

HUN#	Name	Contact	Phone
237	CASTRO ADOBE	CA DEPT OF PARKS AND RECREATION	
250	MANRESA SB	CA DEPT OF PARKS AND RECREATION	
278	SUNSET SB	CA DEPT OF PARKS AND RECREATION	
285	ZMUDOWSKI SB	CA DEPT OF PARKS AND RECREATION	

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
352	ELLICOTT SLOUGH NWR	US FISH AND WILDLIFE SERVICE	

Central California: ESIMAP 28

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
186	Brown pelican	E E 38-280 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
187	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
188	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Double-crested cormorant		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	-	-	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
	Terns		X X X X X X X X X X X X	-	-	-
189	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Diving birds		X X X X X X X X X X X X	-	-	-
	Diving ducks		X X X X X X X X X X X X	-	SEP-MAY	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
190	Brown pelican	E E 0-96 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
191	Brown pelican	E E 0-198 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
192	Brown pelican	E E 55-79 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
197	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Dabbling ducks		X X X X X X X X X X X X	-	SEP-MAR	-
	Diving birds		X X X X X X X X X X X X	-	-	-
	Diving ducks		X X X X X X X X X X X X	-	SEP-MAY	-
	Gulls		X X X X X X X X X X X X	-	-	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
199	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Cormorants		X X X X X X X X X X X X	-	-	-
	Shorebirds		X 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 X	-	-	-
679	Sooty shearwater	HIGH	X X X X X X X X X X X X	-	-	JUN-SEP
682	Sooty shearwater	MODERATE	X X X X X X X X X X X X	-	-	APR-OCT
684	Cassin's auklet	MODERATE	X X X X X X X X X X X X	-	-	-
	Clark's grebe	MODERATE	X X X X X X X X X X X X	-	MAR-APR SEP-NOV	-
	Common murre	HIGH	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 X X X X	-	MAR-APR SEP-OCT	-
	Gulls	MODERATE	X X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X X X X X X X X X	-	OCT-APR	-
	Loons	MODERATE	X X X X X X X X X X X X	-	OCT-MAY	-
	Pacific loon	MODERATE	X X X X X X X X X X X X	-	OCT-MAY	-
	Pelicans	MODERATE	X 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 X	-	-	-
	Pigeon guillemot	MODERATE	X X X X X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	X X X X X X X X X X X X	-	-	-
	Shearwaters	LOW-MODERATE	X X X X X X X X X X X X	-	-	-
	Surf scoter	MODERATE	X X X 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 X X X	-	MAR-APR SEP-NOV	-
	White-winged scoter	LOW	X X X X X X X X X X X X	-	MAR-APR OCT-NOV	-
685	Marbled murrelet	E T MODERATE	X X X X X X X X X X X X	APR-JUL	AUG-MAR	-
687	Marbled murrelet	E T HIGH	X X X X X X X X X X X X	APR-JUL	AUG-MAR	-

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
152	Barred surfperch		X 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 X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion		X X X X X X X X X X X X	MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Striped bass		X X X X 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 X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	White seabass		X X X X X X X X X X X X	APR-AUG	-	-	-	MAR-NOV
189	Tidewater goby	E	X X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
193	Coho salmon	E E	X X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
	Pacific lamprey		X 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 X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
194	Pacific lamprey		X 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 X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
195	Coho salmon	E E	X 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 X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X X X X X X X X X X X X	JAN-DEC	-	-	-	JAN-DEC
198	Northern anchovy		X X X X X X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Pacific chub mackerel		X X X X X X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine		X X X X X X X X X X X X	-	-	-	-	JUN-SEP
	Striped bass		X X X X X X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Surfperch		X X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	APR-NOV
	White croaker		X X X X X X X X X X X X	-	-	-	-	MAY-SEP
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 X X X X X X	-	-	-	-	APR-SEP
428	Bat ray		X X X X X X X X X X X X	MAR-AUG	-	-	-	MAR-SEP
	Leopard shark		X X X X X X X X X X X X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Northern anchovy		X X X X X X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine		X X X X X X X X X X X X	-	-	-	-	JUN-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 X	-	-	-	JAN-DEC	JAN-DEC
181	Pismo clam	LOW	X X X X X X X X X X X X	JUN-SEP	-	-	-	JUN-SEP

MARINE MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Mating	Calving	Pupping	Molting
73	Harbor seal	9 INDIV.	X X X X X X X X X X X X	-	-	MAR-MAY	-

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 28 (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
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
196	California sea lion	3-167 INDIV.	X X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
667	Sea otter	T 189 INDEP / 27 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
668	Sea otter	T 287 INDEP / 9 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
684	Blue whale	E LOW	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	-	-	-	-
	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	LOW	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	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	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
674	Leatherback sea turtle	E HIGH	X 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
30	CAPITOLA CITY BEACH		
32	COWELL BEACH		
52	NEW BRIGHTON STATE BEACH		
70	SEABRIGHT BEACH		

BOAT RAMP:

HUN#	Name	Contact	Phone
85	SANTA CRUZ SMALL CRAFT HARBOR		

HOIST:

HUN#	Name	Contact	Phone
160	HARBOR MARINA, INC.		
163	SANTA CRUZ MUNICIPAL WHARF		
164	SANTA CRUZ YACHT CLUB		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
175	ESCALONA GULCH	CA DEPT OF FISH AND GAME	
199	SOUTH BRANCIFORTE	CA DEPT OF FISH AND GAME	

MARINA:

HUN#	Name	Contact	Phone
208	BOAT ANCHORAGE		
210	CAPITOLA BOAT AND BAIT		

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
247	LIGHTHOUSE FIELD SB	CA DEPT OF PARKS AND RECREATION	
261	NEW BRIGHTON SB	CA DEPT OF PARKS AND RECREATION	
276	SANTA CRUZ MISSION SHP	CA DEPT OF PARKS AND RECREATION	
277	SEACLIFF SB	CA DEPT OF PARKS AND RECREATION	
279	THE FOREST OF NISENE MARKS SP	CA DEPT OF PARKS AND RECREATION	
282	TWIN LAKES SB	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 29

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
186	Brown pelican	E E 38-280 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
200	Brown pelican	E E 3-115 INDIV.	X X X X X X X X X X X X	-	JUL-NOV	-
	Western snowy plover	T LOW	X X X X X X X X X X X X	MAR-SEP	-	-
201	Gulls		X X X X X X X X X X X X	-	-	-
	Shorebirds		X 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 X	-	-	-
204	Pelagic cormorant		X X X X X X X X X X X X	-	-	-
205	Waterfowl	HIGH	X X X X X X X X X X X X	-	-	-
206	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
	Western snowy plover	T MEDIUM	X X X X X X X X X X X X	MAR-SEP	-	-
207	Brown pelican	E E	X X X X X X X X X X X X	-	JUL-NOV	-
	Shorebirds		X X X X X X X X X X X X	-	-	-
	Western snowy plover	T HIGH	X X X X X X X X X X X X	MAR-SEP	-	-
208	Western snowy plover	T	X X X X X X X X X X X X	-	-	-
482	Black oystercatcher	1 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	13 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	495 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
549	Black oystercatcher	6 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	31 INDIV.	X X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	232 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	-	-
606	Black oystercatcher	3 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	245 INDIV.	X X X X X X X X X X X X	FEB-AUG	-	-
627	Pigeon guillemot	205 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	-	-
682	Sooty shearwater	MODERATE	X X X X X X X X X X X X	-	-	APR-OCT
684	Cassin's auklet	MODERATE	X X X X X X X X X X X X	-	-	-
	Clark's grebe	MODERATE	X X X X X X X X X X X X	-	MAR-APR SEP-NOV	-
	Common murre	HIGH	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 X X X X	-	MAR-APR SEP-OCT	-
	Gulls	MODERATE	X X X X X X X X X X X X	-	-	-
	Horned grebe	LOW	X X X X X X X X X X X X	-	OCT-APR	-
	Loons	MODERATE	X X X X X X X X X X X X	-	OCT-MAY	-
	Pacific loon	MODERATE	X X X X X X X X X X X X	-	OCT-MAY	-
	Pelicans	MODERATE	X 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 X	-	-	-
	Pigeon guillemot	MODERATE	X X X X X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	X X X X X X X X X X X X	-	-	-
	Shearwaters	LOW-MODERATE	X X X X X X X X X X X X	-	-	-
	Surf scoter	MODERATE	X X X 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 X X X	-	MAR-APR SEP-NOV	-
	White-winged scoter	LOW	X X X X X X X X X X X X	-	MAR-APR OCT-NOV	-
685	Marbled murrelet	E T MODERATE	X X X X X X X X X X X X	APR-JUL	AUG-MAR	-
687	Marbled murrelet	E T HIGH	X X X X X X X X X X X X	APR-JUL	AUG-MAR	-

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 X	JAN-DEC	-	-	-	JAN-DEC
12	Steelhead	T	X 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 X	JAN-DEC	-	-	-	JAN-DEC
76	Steelhead	T	X X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
202	Coho salmon	E E	X 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 X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X 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 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 X X X X X X	-	-	-	-	APR-SEP
428	Bat ray		X X X X X X X X X X X X	MAR-AUG	-	-	-	MAR-SEP
	Leopard shark		X X X X X X X X X X X X	MAR-JUN	-	-	JAN-DEC	JAN-DEC
	Northern anchovy		X X X X X X X X X X X X	-	-	-	MAY-SEP	MAY-SEP
	Pacific sardine		X X X X X X X X X X X X	-	-	-	-	JUN-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 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
203	Harbor seal	309-332 INDIV.	X X X X X X X X X X X X	-	-	MAR-JUN	-
204	California sea lion	MODERATE	X 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 X	-	DEC-FEB	-	-
666	Sea otter	T 50 INDEP / 7 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
667	Sea otter	T 189 INDEP / 27 PUPS	X X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
684	Blue whale	E LOW	X 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 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	-	-	-	-
	Humpback whale	E MODERATE	X 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 X	-	-	-	-
	Long-beaked common dolphin	LOW	X 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 X	-	MAR-MAY	-	-
	Northern right whale	E LOW	X 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 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 29 (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
684	Risso's dolphin	LOW	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-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	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
12	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
29	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
76	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
202	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
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

HUMAN USE RESOURCES:

ALERT:

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

AQUACULTURE:

HUN#	Name	Contact	Phone
20	SAND HILL BLUFF		
23	U.S. ABALONE		

BEACH:

HUN#	Name	Contact	Phone
40	LAGUNA CREEK BEACH		
51	NATURAL BRIDGES STATE PARK		
65	RED, WHITE AND BLUE BEACH		
78	YELLOWBANK BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
146	PISCO:SAND HILL	PETE RAIMONDI	831/459-5674
154	PISCO:TERRACE POINT	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
185	MOORE CREEK CE	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
260	NATURAL BRIDGES SB	CA DEPT OF PARKS AND RECREATION	
283	WILDER RANCH SP	CA DEPT OF PARKS AND RECREATION	

WATER INTAKE:

HUN#	Name	Contact	Phone
340	LONG MARINE LAB		
341	LONG MARINE LAB		
349	SAND HILL BLUFF		

Central California: ESIMAP 30

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
122	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
153	Shorebirds		X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Western snowy plover	T HIGH	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
208	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
216	Gulls		X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
	Waterfowl		X	X	X	X	X		X	X	X	X			-	-	-
	Western snowy plover	T MEDIUM	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
221	Black oystercatcher		X	X	X				X	X	X	X			-	-	-
	Brown pelican	E E 0-233 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
222	Brown pelican	E E 0-215 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
227	California black rail	T	X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-
229	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X		-	JUL-NOV	-
415	Diving birds	8000 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Gulls	1400 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Seabirds	1300 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
494	Brandt's cormorant	308 INDIV.	X	X	X	X	X	X	X	X	X	X	X		FEB-AUG	-	-
	Pelagic cormorant	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
	Pigeon guillemot	313 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	-	-
507	Black oystercatcher	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
	Pelagic cormorant	66 INDIV.	X	X	X	X	X	X	X	X	X	X	X		MAR-SEP	-	-
	Pigeon guillemot	321 INDIV.	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		MAR-AUG	-	-
682	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X	X		-	-		APR-OCT
684	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		-	MAR-APR SEP-NOV	-	-
	Common murre	HIGH	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	-	-
	Loons	MODERATE	X	X	X	X			X	X	X			-	OCT-MAY	-	-
	Pacific loon	MODERATE	X	X	X	X			X	X	X			-	OCT-MAY	-	-
	Pelicans	MODERATE		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				-	-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Shearwaters	LOW-MODERATE	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	LOW	X	X	X	X			X	X	X			-	MAR-APR OCT-NOV	-	-
685	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X		APR-JUL	AUG-MAR	-
687	Marbled murrelet	E T HIGH	X	X	X	X	X	X	X	X	X	X	X		APR-JUL	AUG-MAR	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
35	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X		MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabezon		X	X	X	X	X	X	X	X	X	X	X		OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X		APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X	X	X	X	X	X	X	X	X	X	X		NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X	X	X	X	X	X	X	X	X	X	X		JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X		MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X		APR-AUG	-	-	JAN-DEC	JAN-DEC
76	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
218	Coho salmon	E E	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
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X		JAN-DEC	-	-	-	JAN-DEC
219	Coho salmon	E E	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
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X		JAN-DEC	-	-	-	JAN-DEC
220	Coho salmon	E E	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
223	Harbor seal	4-8 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
224	Harbor seal	62-92 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
225	Harbor seal	200-261 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
226	Harbor seal	6-22 INDIV.	X	X	X	X	X	X	X	X	X	X	X		-	-	MAR-MAY	-
228	Northern elephant seal		X	X	X	X	X	X	X	X	X	X	X		-	-	-	-
426	Gray whale		X	X	X	X				X	X				-	DEC-FEB	-	-
666	Sea otter	T 50 INDEP / 7 PUPS	X	X	X	X	X	X	X	X	X	X	X		-	-	JAN-MAR SEP-NOV	-
677	Harbor porpoise	MODERATE	X	X	X	X	X	X	X	X	X	X	X		JUL-SEP	JUN-AUG	-	-
684	Blue whale	E LOW						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		-	-	-	-

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 30 (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
684	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	LOW	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	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	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
76	California red-legged frog	T	- - - - X X X X X	-	-	-	JUN-OCT	-
218	California red-legged frog	T	- - - - X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Western pond turtle		- - - - X X X X X	-	-	-	JUN-OCT	-
219	California red-legged frog	T	- - - - X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
220	California red-legged frog	T	- - - - X X X X X	-	-	-	JUN-OCT	-
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

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Keep out of kelp when transiting. Note potential presence of sea otters if operating outboard motor.
2	Harbor seal breeding area, March-July.
3	Snowy plovers, March-July, no vehicles without escort.

AQUACULTURE:

HUN#	Name	Contact	Phone
18	MONTEREY BAY SALMON AND TROUT PROJECT		
21	SILVERKING OCEANIC FARMS		

BEACH:

HUN#	Name	Contact	Phone
29	BONNY DOON BEACH		
33	DAVENPORT BEACH		
34	DAVENPORT LANDING BEACH		
38	GREYHOUND ROCK BEACH		
58	PANTHER BEACH		
69	SCOTT CREEK BEACH		
76	WADDELL CREEK STATE BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
120	PISCO:ANO NUEVO	PETE RAIMONDI	831/459-5674
148	PISCO:SCOTT CREEK	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
179	GREYHOUND ROCK FA	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
233	BIG BASIN REDWOODS SP	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 31

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
122	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X		-	-	-
230	Western snowy plover	T LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
231	Western snowy plover	T MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
232	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
233	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
235	Brown pelican	E E 1388-5229 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
236	Brown pelican	E E 12-77 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
237	Brown pelican	E E 38-1438 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
415	Diving birds	8000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	1400 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Seabirds	1300 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
444	Black oystercatcher	27 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Cassin's auklet	24 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Double-crested cormorant		X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Pelagic cormorant	13 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	117 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Rhinoceros auklet	224 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
	Western gull	1382 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
453	Marbled murrelet	E T 600 INDIV.						X	X	X	X	X	X		-	-	-
502	Pigeon guillemot	8 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
566	Black oystercatcher	2 INDIV.	X	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	X	FEB-AUG	-	-
	Western gull	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
586	Pelagic cormorant	114 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	102 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
673	Cassin's auklet	LOW	X	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	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	MODERATE	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	-
	Pacific loon	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE		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	X	-	-	-
	Pigeon guillemot	LOW		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	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	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			-	MAR-APR OCT-NOV	-
678	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
681	Marbled murrelet	E T HIGH	X	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				-	-	APR-OCT
684	Cassin's auklet	MODERATE	X	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	HIGH	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	MODERATE	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	MODERATE	X	X	X	X				X	X				-	OCT-MAY	-
	Pacific loon	MODERATE	X	X	X	X				X	X				-	OCT-MAY	-
	Pelicans	MODERATE		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	X	-	-	-
	Pigeon guillemot	MODERATE		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	LOW-MODERATE	X	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	LOW	X	X	X	X				X	X	X			-	MAR-APR OCT-NOV	-
685	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	AUG-MAR	-
687	Marbled murrelet	E T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	AUG-MAR	-

FISH:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Spawning	Eggs	Larvae	Juveniles	Adults
35	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabezon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
238	Coho salmon	E E	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
239	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X		-	-	-	JUN-OCT	OCT-JUN
241	Barred surfperch		X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion			X	X	X	X	X	X						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	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	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass			X	X	X	X								-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	FEB-AUG
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

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 31 (cont.)

BIOLOGICAL RESOURCES: (cont.)

FISH: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
421	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
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
74	Black abalone		X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
241	Dungeness crab		X X X X	-	-	-	-	JUN-SEP

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	-
85	Pinnipeds	HIGH	X X X X X X X X X X X	-	-	-	-
120	Harbor seal	15 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
234	Harbor seal	36-43 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
235	California sea lion	2301-9439 INDIV.	X X X X X X X X X X X	-	-	MAY-JUL	-
	Harbor seal	84-98 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
	Northern elephant seal		X X X X X X X X X X X	NOV-MAR	-	DEC-MAR	APR-JUL
	Steller sea lion	T	X X X X X X X X X X X	-	-	MAY-AUG	-
243	Harbor seal	87-232 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
244	Harbor seal	7 INDIV.	X X X X X X X X X X X	-	-	MAR-MAY	-
246	Northern elephant seal	10000 INDIV.	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	-	-
665	Sea otter	T 6 INDEP / 1 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
666	Sea otter	T 50 INDEP / 7 PUPS	X X X X X X X X X X X	-	-	JAN-MAR SEP-NOV	-
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	-	-	-	-
677	Harbor porpoise	MODERATE	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 X X	-	-	-	-
	Humpback whale	E MODERATE	X X X X X X X X	-	-	-	-
684	Blue whale	E LOW	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	-	-	-	-
	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	LOW	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	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	Interneesting	Juveniles	Adults
238	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
239	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
240	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
675	Leatherback sea turtle	E MODERATE	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Keep aircraft away year-round. Restrict all vehicles except with escorts.

SAMPLING SITE:

HUN#	Name	Contact	Phone
129	PISCO:GFNMS	JAN ROLETTO	415/561-6622
139	PISCO:PIGEON POINT	PETE RAIMONDI	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
165	ANO NUEVO INVERTEBRATE AREA	CDF&G	
178	GAZOS CREEK FA	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
229	ANO NUEVO SP	CA DEPT OF PARKS AND RECREATION	
230	ANO NUEVO SR	CA DEPT OF PARKS AND RECREATION	
233	BIG BASIN REDWOODS SP	CA DEPT OF PARKS AND RECREATION	
235	BUTANO SP	CA DEPT OF PARKS AND RECREATION	

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 32

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
247	Western snowy plover	T LOW	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
248	Diving birds		X	X	X	X				X	X	X	X		-	-	-
	Wading birds		X	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	X	-	-	-
249	Common yellowthroat		X	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		-	SEP-MAR	-
	Diving birds		X	X	X	X				X	X	X	X		-	-	-
	Diving ducks		X	X	X	X				X	X	X	X		-	SEP-MAY	-
	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	X	FEB-AUG	-	-
250	Shorebirds	HIGH	X	X	X	X		X	X	X	X	X	X		-	-	-
251	Black oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Western snowy plover	T	X	X	X					X	X	X	X	X	-	-	-
258	Western snowy plover	T	X	X	X					X	X	X	X	X	-	-	-
259	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
584	Pigeon guillemot	20 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
673	Cassin's auklet	LOW	X	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	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	MODERATE	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	-
	Pacific loon	MODERATE	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	X	-	-	-
	Pigeon guillemot	LOW		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	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	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			-	MAR-APR OCT-NOV	-
678	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
681	Marbled murrelet	E T HIGH	X	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	X		-	-	APR-OCT
700	Ashy storm-petrel	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-footed albatross	MODERATE	X	X	X	X	X	X	X				X		-	-	-
	Brown pelican	E E LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Cassin's auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Common murre	HIGH	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	-	-	-
	Gulls	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loons	LOW	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pacific loon	LOW	X	X	X	X				X	X	X			-	OCT-MAY	-
	Phalaropes	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pigeon guillemot	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sooty shearwater	MODERATE		X	X	X	X	X	X	X	X	X	X		-	-	APR-OCT
	Storm-petrels	LOW		X	X	X	X	X	X	X	X	X	X		-	-	-
	Xantus' murrelet	T LOW								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
3	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
35	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
239	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
252	Barred surfperch		X	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	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Night smelt		X	X	X	X	X								JAN-JUN	-	-	-	JAN-JUN
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass			X	X	X	X								-	-	-	MAY-SEP	MAY-SEP
	Surf smelt			X	X	X	X								APR-SEP	-	-	-	APR-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
253	Coho salmon	E E	X	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	X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
254	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
	Pacific lamprey		X	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	X	-	-	-	JUN-OCT	OCT-JUN
	Tidewater goby	E	X	X	X	X	X	X	X	X	X	X	X	X	JAN-DEC	-	-	-	JAN-DEC
255	Barred surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion			X	X	X	X	X							MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Striped bass			X	X	X	X								-	-	-	MAY-SEP	MAY-SEP
	White seabass			X	X	X	X	X	X	X	X				APR-AUG	-	-	-	MAR-NOV
431	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							-	-	-	-	APR-SEP
	White shark		X	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
74	Black abalone		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
249	California brackishwater snail		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
252	Dungeness crab					X	X	X	X						-	-	-	-	JUN-SEP
255	Dungeness crab						X	X	X	X					-	-	-	-	JUN-SEP

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
243	Harbor seal	87-232 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-MAY	-

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 32 (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
256	Harbor seal	54-77 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
257	Harbor seal	163-320 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
426	Gray whale		X X X X X X X X X X	-	DEC-FEB	-	-
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 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	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	-	-
677	Harbor porpoise	MODERATE	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 X X X X X	-	-	-	-
	Humpback whale	E MODERATE	X X X X X X X X X X	-	-	-	-
683	Blue whale	E HIGH	X X X X X X X X X X	-	-	-	-
	Humpback whale	E HIGH	X X X X X X X X X X	-	-	-	-
700	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	-	-
	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 X X X X 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	-	-	-	-
	Risso's dolphin	MODERATE	X X X X X X X X X X X	-	-	-	-
	Sea lions	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	-	-	-	-

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Interesting	Juveniles	Adults
239	California red-legged frog	T	X X X X X X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
242	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
253	California red-legged frog	T	X X X X X X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
254	California red-legged frog	T	X X X X X X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Western pond turtle		X X X X X X X X X X	-	-	-	JUN-OCT	-
675	Leatherback sea turtle	E MODERATE	X X X X X X X X X	-	-	-	-	MAY-NOV
700	Leatherback sea turtle	E LOW	X X X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers, March-July, no vehicles without escort.
2	Harbor seal haulouts, pupping March-May.

SAMPLING SITE:

HUN#	Name	Contact	Phone
129	PISCO:GFNMS	JAN ROLETTO	415/561-6622

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
232	BEAN HOLLOW SB	CA DEPT OF PARKS AND RECREATION	
264	PESCADERO SB	CA DEPT OF PARKS AND RECREATION	
271	POMPONIO SB	CA DEPT OF PARKS AND RECREATION	
274	SAN GREGORIO SB	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 33

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
-----	-----	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----
259	Shorebirds		X	X	X	X	X		X	X	X	X	X	X	-	-	-
260	Shorebirds		X	X	X	X	X		X	X	X	X	X	X	-	-	-
261	Shorebirds		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	X	MAR-SEP	-	-
262	Brown pelican	E E 64-218 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
484	Pelagic cormorant	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
533	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant	108 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	20 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
613	Brandt's cormorant	37 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Pelagic cormorant	123 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	12 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	-	-
673	Cassin's auklet	LOW	X	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	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	MODERATE	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	-
	Pacific loon	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE			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	X	-	-	-
	Pigeon guillemot	LOW		X	X	X	X	X	X	X					-	-	-
	Rhinoceros auklet	MODERATE	X	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	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			-	MAR-APR OCT-NOV	-
678	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
681	Marbled murrelet	E T HIGH	X	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
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35	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickpleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
252	Barred surfperch		X	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	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Night smelt		X	X	X	X	X								JAN-JUN	-	-	-	JAN-JUN
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Surf smelt			X	X	X	X	X	X						APR-SEP	-	-	-	APR-SEP
	Walleye surfperch		X	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			APR-AUG	-	-	-	MAR-NOV
263	Barred surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Night smelt		X	X	X	X	X								JAN-JUN	-	-	-	JAN-JUN
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Surf smelt			X	X	X	X	X							APR-SEP	-	-	-	APR-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
264	Barred surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Night smelt		X	X	X	X	X								JAN-JUN	-	-	-	JAN-JUN
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Surf smelt			X	X	X	X	X	X						APR-SEP	-	-	-	APR-SEP
	White seabass			X	X	X	X	X	X	X	X				APR-AUG	-	-	-	MAR-NOV
269	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
270	Barred surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	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
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickpleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	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	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	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
-----	-----	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----	-----	-----
74	Black abalone		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
252	Dungeness crab					X	X	X							-	-	-	-	JUN-SEP
263	Dungeness crab					X	X	X							-	-	-	-	JUN-SEP
264	Dungeness crab					X	X	X							-	-	-	-	JUN-SEP
270	Dungeness crab					X	X	X	X						-	-	-	-	JUN-SEP

MARINE MAMMAL:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Mating	Calving	Pupping	Molting
-----	-----	-----	-	-	-	-	-	-	-	-	-	-	-	-	-----	-----	-----	-----
265	Harbor seal	80-100 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	-

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 33 (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
266	Harbor seal	139-273 INDIV.	X X X X X X X X X X X X	-	-	MAR-JUN	-
267	Harbor seal	51-69 INDIV.	X X X X X X X X X X X X	-	-	MAR-JUN	-
268	Harbor seal	27-41 INDIV.	X X X X X X X X X X X X	-	-	MAR-JUN	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
673	Bottlenose dolphin	LOW	X 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 X	-	-	-	-
	Fin whale	E LOW	X 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 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	-	-	-	-
	Pacific white-sided dolphin	LOW	X 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 X	-	-	-	-
	Sea lions	LOW-MODERATE	X 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 X	-	-	-	-
	Seals	LOW-MODERATE	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X 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 X	JUL-SEP	JUN-AUG	-	-
680	Blue whale	E LOW	X X X X X X X X	-	-	-	-
	Humpback whale	E MODERATE	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
269	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
675	Leatherback sea turtle	E MODERATE	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Harbor seal breeding area, March-July.

MARINE SANCTUARY:

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

PARK:

HUN#	Name	Contact	Phone
234	BURLEIGH H. MURRAY RANCH	CA DEPT OF PARKS AND RECREATION	
242	HALF MOON BAY SB	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 34

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
260	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
271	Brown pelican	E E 177-602 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
272	Brown pelican	E E 460-787 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Diving birds	HIGH	X	X	X	X	X	X	X	X	X	X	X		-	-	-
	Diving ducks	HIGH	X	X	X	X			X	X	X	X			-	SEP-MAY	-
273	Common murre	>400 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
274	Western snowy plover	T MEDIUM	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
275	Common yellowthroat		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	-
																SEP-OCT	
283	Western snowy plover	T	X	X	X	X			X	X	X	X	X	X	-	-	-
284	Gulls		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Seabirds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
285	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	-	-	-
414	Diving birds	1100 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	800 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
486	Black oystercatcher	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	7 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	246 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant	46 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	30 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	16 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
567	Pelagic cormorant	5 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	-	-
673	Cassin's auklet	LOW	X	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	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	MODERATE	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	-
	Pacific loon	MODERATE	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	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	X	-	-	-
	Shearwaters	LOW-HIGH	X	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			-	MAR-APR	-
																OCT-NOV	
678	Marbled murrelet	E T MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
681	Marbled murrelet	E T HIGH	X	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
13	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
239	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JUN-OCT	OCT-JUN
241	Barred surfperch		X	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	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	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	FEB-AUG
263	Barred surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Night smelt		X	X	X	X	X								JAN-JUN	-	-	-	JAN-JUN
	Striped bass				X	X	X	X	X						-	-	-	MAY-SEP	MAY-SEP
	Surf smelt				X	X	X	X	X	X					APR-SEP	-	-	-	APR-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	FEB-AUG
277	Barred surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	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						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickpleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	FEB-AUG
278	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Shiner surfperch			X	X	X	X	X	X	X	X				APR-JUL	-	-	-	MAR-NOV
286	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	-
431	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							-	-	-	-	APR-SEP
	White shark		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC

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 34 (cont.)

BIOLOGICAL RESOURCES: (cont.)

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	HIGH	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
241	Dungeness crab		X X X X X X X X X	-	-	-	-	JUN-SEP
263	Dungeness crab		X X X X	-	-	-	-	JUN-SEP
276	Tidepool invertebrates		X X X X X X X X X X X	-	-	-	-	-
277	Dungeness crab		X X X X	-	-	-	-	JUN-SEP
278	Clams		X X X X X X X X X X X	-	-	-	-	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	-	-	-	-
279	California sea lion	94 INDIV.	X X X X X X X X X X X	-	-	-	-
280	Harbor seal	179-212 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
281	Harbor seal	9 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
282	Harbor seal	LOW	X X X X X X X X X X X	-	-	MAR-JUN	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
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 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
239	California red-legged frog	T	X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
275	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
286	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
674	Leatherback sea turtle	E HIGH	X X X X X X	-	-	-	-	MAY-NOV
675	Leatherback sea turtle	E MODERATE	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Keep aircraft away February-August (Seabird colony restoration).

AIRPORT:

HUN#	Name	Contact	Phone
5	HALF MOON BAY AIRPORT		

BEACH:

HUN#	Name	Contact	Phone
37	GRAY WHALE COVE STATE BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
128	PISCO:FITZGERALD MARINE RESERVE	PETE RAIMONDI, FITZGERALD MR	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
182	JAMES V. FITZGERALD - SMP	CDF&G	

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

PARK:

HUN#	Name	Contact	Phone
241	GRAY WHALE COVE SB	CA DEPT OF PARKS AND RECREATION	
242	HALF MOON BAY SB	CA DEPT OF PARKS AND RECREATION	
253	MONTARA SB	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 35

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	-	-	-
258	Western snowy plover	T	X X X X X X X X X X X	-	-	-
271	Brown pelican	E E 177-602 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
287	Brown pelican	E E 0-40 INDIV.	X X X X X X X X X X X	-	JUL-NOV	-
289	Western snowy plover	T MEDIUM	X X X X X X X X X X X	-	-	-
294	Gulls	HIGH	X X X X X X X X X X X	-	-	-
414	Diving birds	1100 INDIV.	X X X X X X X	FEB-AUG	-	-
	Seabirds	800 INDIV.	X X X X X X X	FEB-AUG	-	-
430	Grebes	HIGH	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	-
543	Pelagic cormorant	31 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	18 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
548	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	10 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
605	Black oystercatcher	2 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	7 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	70 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	-	-
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 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 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
239	Steelhead	T	X X X X X X X X X X X	-	-	-	JUN-OCT	OCT-JUN
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	-	-	-	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	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 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
74	Black abalone		X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
241	Dungeness crab		X X X X X X X	-	-	-	-	JUN-SEP
290	Pacific littleneck	HIGH	X X X X X X X X X X X	APR-SEP	-	-	-	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
291	California sea lion	7 INDIV.	X X X X X X X X X X X	-	-	-	-
292	Harbor seal		X X X X X X X X X X X	-	-	MAR-JUN	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
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 X 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 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
239	California red-legged frog	T	X X X X X X X X	-	-	-	JUN-OCT	-
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
288	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
293	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 X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Keep all aircraft away, February-August.

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 35 (cont.)

HUMAN USE RESOURCES: (cont.)

BEACH:

HUN#	Name	Contact	Phone
57	PACIFICA STATE BEACHES		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
197	SAN BRUNO MOUNTAIN ER	CA DEPT OF FISH AND GAME	

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

PARK:

HUN#	Name	Contact	Phone
263	PACIFICA SB	CA DEPT OF PARKS AND RECREATION	
273	SAN BRUNO MOUNTAIN SP	CA DEPT OF PARKS AND RECREATION	
280	THORNTON SB	CA DEPT OF PARKS AND RECREATION	

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 X	-	OCT-MAY	-
	Scoters	HIGH	X 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 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	-
	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	-	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 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 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	-
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 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 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 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 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 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 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

Central California: ESIMAP 37

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
306	Brown pelican	E E	X X X X X X X X X X X	-	JUL-NOV	-
430	Grebes	HIGH	X X X X X X X X X X	-	MAR-APR SEP-NOV	-
	Loons	HIGH	X X X X X X X X X	-	OCT-MAY	-
	Scoters	HIGH	X X X X X X X X X	-	MAR-APR SEP-DEC	-
512	Black oystercatcher	1 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pelagic cormorant	9 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	7 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	-	-
546	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	-	-	-
	Pelagic cormorant	42 INDIV.	X X X X X X X X X X X	MAR-SEP	-	-
	Pigeon guillemot	34 INDIV.	X X X X X X X X X X X	FEB-AUG	-	-
	Western gull	20 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 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	-
	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	-	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 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 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	-
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
35	Black-and-yellow rockfish		X X X X X X X X X X X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabazon		X X X X X X X X X X X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X X X X X X X X X X X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X X X X X X X X X X X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X X X X X X X X X X X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X X X X X X X X X X X	-	-	-	-	JAN-DEC
	Striped seaperch		X X X X X X X X X X X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X X X X X X X X X X X	APR-AUG	-	-	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	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	-	-	-	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
305	Coho salmon	E E HIGH	X X X X X X X X X X X	NOV-FEB	NOV-FEB	DEC-MAR	JAN-DEC	NOV-FEB
	Steelhead	T	X X X X X X X X X X X	NOV-APR	NOV-APR	NOV-JUN	JAN-DEC	NOV-APR
311	Coho salmon	E E	X X X X X X X X X X X	NOV-FEB	NOV-FEB	DEC-MAR	JAN-DEC	NOV-FEB
	Steelhead	T	X X X X X X X X X X X	NOV-APR	NOV-APR	NOV-JUN	JAN-DEC	NOV-APR
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 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
312	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
307	California sea lion	8 INDIV.	X X X X X X X X X X X	-	-	-	-
308	Harbor seal	6 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
309	Harbor seal	20 INDIV.	X X X X X X X X X X X	-	-	MAR-JUN	-
426	Gray whale		X X X X X X X X	-	DEC-FEB	-	-
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 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 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
288	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
675	Leatherback sea turtle	E MODERATE	X X X X X X X	-	-	-	-	MAY-NOV

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 37 (cont.)

BIOLOGICAL RESOURCES: (cont.)

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
310	Northern river otter		X X X X X X X X X X X

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Harbor seal haul outs and colonial seabird nesting.
2	Potential peregrine falcon nesting around Muir Beach.

BEACH:

HUN#	Name	Contact	Phone
50	MUIR BEACH		

SAMPLING SITE:

HUN#	Name	Contact	Phone
150	PISCO:SLIDE RANCH	JAN ROLETTO	415/561-6622

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
169	CORTE MADERA MARSH - SMP	CDF&G	
170	CORTE MADERA MARSH NERR	CA DEPT OF FISH AND GAME	

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
222	MUIR WOODS NATIONAL MONUMENT	NATIONAL PARK SERVICE	

PARK:

HUN#	Name	Contact	Phone
259	MOUNT TAMALPAIS SP	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 38

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
316	Western snowy plover	T MEDIUM	X X X X X X X X X X	-	-	-
317	Shorebirds		X X X X X X X X X X	-	-	-
318	Brandt's cormorant	HIGH	X X X X X X X X X X	-	-	-
	Brown pelican	E E 17-5000 INDIV.	X X X X X X X X X X	-	JUL-NOV	-
	Dabbling ducks		X X X X X X X X	-	SEP-MAR	-
	Diving birds		X X X X X X X X X X	-	-	-
	Diving ducks	HIGH	X X X X X X X X X	-	SEP-MAY	-
	Gulls		X X X X X X X X X X	-	-	-
	Osprey		X X X X X X X X X X	-	FEB-JUL	-
	Raptors		X X X X X X X X X X	-	AUG-NOV	-
	Wading birds	HIGH	X X X X X X X X X X	-	-	-
324	California black rail	T	X X X X X X X X X X	MAR-JUN	-	-
325	Gulls		X X X X X X X X X X	-	-	-
	Raptors		X X X X X X X X X X	-	AUG-NOV	-
	Shorebirds		X X X X X X X X X X	-	-	-
	Wading birds		X X X X X X X X X X	-	-	-
327	Brown pelican	E E	X X X X X X X X X X	-	JUL-NOV	-
328	Shorebirds		X X X X X X X X X X	-	-	-
329	Wading birds	HIGH	X X X X X X X X X X	FEB-AUG	-	-
330	Double-crested cormorant	1 INDIV.	X X X X X X X X	-	-	-
413	Diving birds	15000 INDIV.	X X X X X X X	FEB-AUG	-	-
	Gulls	20000 INDIV.	X X X X X X X	FEB-AUG	-	-
	Seabirds	300000 INDIV.	X X X X X X X	FEB-AUG	-	-
673	Cassin's auklet	LOW	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	-	-	JUL-SEP
	Cormorants	MODERATE	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	-	-	-
	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	-	-	-
	Pigeon guillemot	LOW	X X X X X X X X	-	-	-
	Rhinoceros auklet	MODERATE	X X X X X X X X X X	-	-	-
	Shearwaters	LOW-HIGH	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	APR-JUL	-	-
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	-	-	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
313	Steelhead	T	X X X X X X X X X X	NOV-APR	NOV-APR	NOV-JUN	JAN-DEC	NOV-APR
314	Coho salmon	E E LOW	X X X X X X X X X X	NOV-FEB	NOV-FEB	DEC-MAR	JAN-DEC	NOV-FEB
	Steelhead	T HIGH	X X X X X X X X X X	NOV-APR	NOV-APR	NOV-JUN	JAN-DEC	NOV-APR
315	Coho salmon	E E	X X X X X X X X X X	-	-	-	JAN-DEC	NOV-FEB
	Nursery fish		X X X X X X X X X X	-	-	-	JAN-DEC	-
	Steelhead	T	X X X X X X X X X X	-	-	-	JAN-DEC	NOV-APR
	Surfperch		X X X X X X X X X X	-	-	-	JAN-DEC	-
318	Pacific herring	LOW	X X X X X X X X X X	JAN-APR	JAN-MAY	JAN-MAY	JAN-DEC	JAN-APR
320	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	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Striped bass		X X X X X	-	-	-	MAY-SEP	MAY-SEP
	White seabass		X X X X X X X X X	APR-AUG	-	-	-	MAR-NOV
326	Cabazon		X X X X X X X X X X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Lingcod		X X X X X X X X X X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X X X X X X X X X X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X X X X X X X X X X	-	-	-	-	JAN-DEC
	Striped seaperch		X X X X X X X X X X	MAY-JUN	-	-	-	JAN-DEC
421	Black rockfish		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	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Blue rockfish		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	-	-	-	JAN-DEC	-
	Canary rockfish (orange)		X X X X X X X X X X	-	-	-	JAN-DEC	-
	China rockfish		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	FEB-APR	-	-	APR-JUL	JAN-DEC
	Gopher rockfish		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	JAN-MAR	-	-	MAY-JUL	JAN-DEC
	Kelp rockfish		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	JAN-MAR	-	-	APR-JUL	JAN-DEC
	Vermilion rockfish		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	-	-	-	JAN-DEC	-
	Yellowtail rockfish		X X X X X X X X X X	-	-	-	JAN-DEC	-
431	California halibut		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	-	-	-	-	JAN-DEC

HABITAT:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
318	Eelgrass		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
318	Invertebrates		X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
320	Dungeness crab		X X X X	-	-	-	-	JUN-SEP
326	Black abalone		X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
331	Invertebrates	HIGH	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
318	Harbor seal	348-531 INDIV.	X X X X X X X X X X	-	-	MAR-JUN	-
321	Harbor seal	45 INDIV.	X X X X X X X X X X	-	-	MAR-JUN	-
322	Harbor seal	60-230 INDIV.	X X X X X X X X X X	-	-	MAR-JUN	-
323	California sea lion	16 INDIV.	X X X X X X X X X X	-	-	-	-
426	Gray whale		X X X X X X X	-	DEC-FEB	-	-
673	Bottlenose dolphin	LOW	X X X X X X X X X X	-	-	-	-
	Dall's porpoise	LOW	X X X X X X X X X X	-	-	-	-
	Fin whale	E LOW	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 38 (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	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	-	-
677	Harbor porpoise	MODERATE	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 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
319	California red-legged frog	T	X X X X X X X X X X X	NOV-APR	-	-	JAN-DEC	JAN-DEC
	San Francisco garter snake	E E	X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
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
317	Northern river otter		X X X X X X X X X X X

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Harbor seal breeding area, March-July.

BEACH:

HUN#	Name	Contact	Phone
26	AGATE BEACH PARK		
74	STINSON BEACH		

BOAT RAMP:

HUN#	Name	Contact	Phone
80	BOAT RAMP		

SAMPLING SITE:

HUN#	Name	Contact	Phone
123	PISCO:BOLINAS POINT, NPS	PETE RAIMONDI	831/459-5674
124	PISCO:BOLINAS WRECK	PETE RAIMONDI	831/459-5674
129	PISCO:GFNMS	JAN ROLETTO	415/561-6622

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
172	DUXBURY REEF - SMCA	CDF&G	
200	STINSON BEACH	CA DEPT OF FISH AND GAME	

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
218	GULF OF THE FARALLONES NMS	NOAA	415/561-6622
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
223	PHILIP BURTON WILDERNESS	NATIONAL PARK SERVICE	415/464-5100
224	POINT REYES NATIONAL SEASHORE	NATIONAL PARK SERVICE	415/464-5100

PARK:

HUN#	Name	Contact	Phone
259	MOUNT TAMALPAIS SP	CA DEPT OF PARKS AND RECREATION	

Central California: ESIMAP 39

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
333	Brown pelican	E E 16-957 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
336	American bittern		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Common yellowthroat		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUL	APR-MAY	-
	Dabbling ducks		X	X	X	X	X			X	X	X	X		-	SEP-OCT	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
337	Black oystercatcher		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pelagic cormorant		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
338	Pigeon guillemot		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
340	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
413	Diving birds	15000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	20000 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Seabirds	300000 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
478	Pigeon guillemot	63 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
491	Ashy storm-petrel	30 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-
	Black oystercatcher	2 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	180 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	4464 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant	9 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	22 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	-	-
538	Black oystercatcher	1 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	114 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	358 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant	59 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	55 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	30 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
578	Brandt's cormorant	46 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	3518 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant		X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	50 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	-	-
673	Cassin's auklet	LOW	X	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	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	MODERATE	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	-
	Pacific loon	MODERATE	X	X	X	X				X	X	X			-	OCT-MAY	-
	Pelicans	MODERATE		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	X	-	-	-
	Pigeon guillemot	LOW	X	X	X	X	X	X	X						-	-	-
	Rhinoceros auklet	MODERATE	X	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	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			-	MAR-APR	-
																OCT-NOV	
678	Marbled murrelet	E T MODERATE	X	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	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
241	Barred surfperch		X	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	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	California grunion			X	X	X	X	X	X						MAR-SEP	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	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	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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				APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	FEB-AUG
326	Cabezon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
332	Night smelt		X	X	X	X	X								FEB-JUN	-	-	-	FEB-JUN
	Surf smelt			X	X	X	X	X							APR-SEP	-	-	-	APR-SEP
341	California grunion			X	X	X	X	X	X						MAR-AUG	MAR-SEP	-	-	MAR-AUG
	Jacksmelt		X	X	X	X	X	X	X	X	X	X	X	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Striped bass			X	X	X	X	X							-	-	-	MAY-SEP	MAY-SEP
	White seabass			X	X	X	X	X	X	X	X				APR-AUG	-	-	-	MAR-NOV
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	-
431	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							-	-	-	-	APR-SEP
	White shark		X	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
326	Black abalone		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	JAN-DEC
341	Dungeness crab							X	X	X	X				-	-	-	-	JUN-SEP

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	-	-	-	-
334	California sea lion	94-300 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
335	Harbor seal	885-939 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	-

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 39 (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
335	Steller sea lion	T	X X X X X X X X X X X X	-	-	-	-
339	Harbor seal		X X X X X X X X X X X X	-	-	MAR-JUN	-
426	Gray whale		X X X X X X X X X X X X	-	DEC-FEB	-	-
673	Bottlenose dolphin	LOW	X 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 X	-	-	-	-
	Fin whale	E LOW	X 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 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 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 X	-	-	-	-
	Risso's dolphin	LOW	X 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 X	-	-	-	-
	Sea otter	T LOW	X 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 X	-	-	-	-
	Short-beaked common dolphin	LOW	X 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 X	-	-	-	-
677	Harbor porpoise	MODERATE	X 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 X X X X X X X	-	-	-	-
	Humpback whale	E MODERATE	X 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
674	Leatherback sea turtle	E HIGH	X X X X X X X X X X X X	-	-	-	-	MAY-NOV
675	Leatherback sea turtle	E MODERATE	X X X X X X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Seabird colony and harbor seal breeding colony, keep aircraft away, March -July.
2	Seabird colony, keep helicopters away, March -July.

SAMPLING SITE:

HUN#	Name	Contact	Phone
147	PISCO:SANTA MARIA CREEK, NPS	PETE RAIMONDI	831/459-5674

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
218	GULF OF THE FARALLONES NMS	NOAA	415/561-6622

NATIONAL PARK:

HUN#	Name	Contact	Phone
221	GOLDEN GATE NATIONAL RECREATION AREA	NATIONAL PARK SERVICE	415/561-4700
223	PHILIP BURTON WILDERNESS	NATIONAL PARK SERVICE	415/464-5100
224	POINT REYES NATIONAL SEASHORE	NATIONAL PARK SERVICE	415/464-5100

Central California: ESIMAP 40

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
259	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
336	American bittern		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	Common yellowthroat		X	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			-	SEP-MAR	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
346	American bittern		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-
	American white pelican		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Dabbling ducks		X	X	X	X			X	X	X	X			-	SEP-MAR	-
	Diving ducks		X	X	X	X			X	X	X	X			-	SEP-MAY	-
	Geese		X	X	X	X	X	X	X	X	X	X	X	X	-	OCT-MAR	-
	Raptors		X	X	X	X	X	X	X	X	X	X	X	X	-	AUG-NOV	-
347	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
348	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
349	Brown pelican	E E 108-288 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Seabirds	HIGH	X	X	X	X	X	X							FEB-AUG	-	-
350	Western snowy plover	T	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
351	American white pelican		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brown pelican	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Ducks	HIGH	X	X	X	X	X	X	X	X	X	X	X	X	-	SEP-MAR	-
352	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	FEB-JUL	-	-
	American white pelican		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Brant	HIGH	X	X	X	X	X			X	X	X			-	FEB-JUN OCT-DEC	-
	Diving birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Osprey		X	X	X	X	X	X	X	X	X	X	X	X	-	FEB-JUL	-
	Waterfowl		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
353	Brown pelican	E E 0-1000 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
355	Shorebirds		X	X	X	X		X	X	X	X	X	X		-	-	-
	Wading birds		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
359	Western snowy plover	T	X	X	X	X		X	X	X	X	X	X	X	-	-	-
413	Diving birds	15000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	20000 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
	Seabirds	300000 INDIV.	X	X	X	X	X	X							FEB-AUG	-	-
579	Ashy storm-petrel	15 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-
	Black oystercatcher	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	1522 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	15155 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant	266 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	616 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Rhinoceros auklet		X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
	Tufted puffin	4 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	-	-
	Western gull	178 INDIV.	X	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	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	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	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Horned grebe	LOW	X	X	X	X			X	X	X				-	OCT-APR	-
	Pacific loon	MODERATE	X	X	X	X			X	X	X				-	OCT-MAY	-
	Pelicans	MODERATE	X	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	X	-	-	-
	Pigeon guillemot	LOW	X	X	X	X	X	X	X						-	-	-
	Rhinoceros auklet	MODERATE	X	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	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				-	MAR-APR OCT-NOV	-
678	Marbled murrelet	E T MODERATE	X	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	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
241	Barred surfperch		X	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	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	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Redtail surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
	Striped bass		X	X	X	X									-	-	-	MAY-SEP	MAY-SEP
	Walleye surfperch		X	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	X	X	APR-AUG	-	-	-	MAR-NOV
	White seaperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	FEB-AUG
341	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	X	NOV-JUN	NOV-JUN	NOV-JUN	APR-NOV	NOV-JUN
	Striped bass		X	X	X	X	X	X	X						-	-	-	MAY-SEP	MAY-SEP
	White seabass		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	-	MAR-NOV
352	Coho salmon	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	JAN-DEC	NOV-FEB
	Steelhead	T	X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	NOV-APR	NOV-JUN	JAN-DEC	NOV-APR
363	Black-and-yellow rockfish		X	X	X	X	X	X	X	X	X	X	X	X	MAR-JUN	-	-	MAY-JUL	JAN-DEC
	Cabazon		X	X	X	X	X	X	X	X	X	X	X	X	OCT-APR	-	-	JAN-DEC	JAN-DEC
	Calico surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	MAR-NOV
	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
	Lingcod		X	X	X	X	X	X	X	X	X	X	X	X	NOV-APR	DEC-APR	-	JAN-DEC	JAN-DEC
	Monkeyface prickpleback		X	X	X	X	X	X	X	X	X	X	X	X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Rubberlip seaperch		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC
	Striped seaperch		X	X	X	X	X	X	X	X	X	X	X	X	MAY-JUN	-	-	-	JAN-DEC
	Walleye surfperch		X	X	X	X	X	X	X	X	X	X	X	X	APR-AUG	-	-	JAN-DEC	JAN-DEC
431	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								-	-	-	-	APR-SEP
	White shark		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	JAN-DEC

HABITAT:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D
358	Eelgrass		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
241	Dungeness crab							X	X	X	X				-	-	-	-	JUN-SEP
341	Dungeness crab							X	X	X	X				-	-	-	-	JUN-SEP

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 40 (cont.)

BIOLOGICAL RESOURCES: (cont.)

INVERTEBRATE: (cont.)

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
352	Pacific littleneck		X X X X X X X X X X X X	APR-SEP	-	-	-	JAN-DEC
357	Myrtle's Silverspot	E	X X X X X X X X X X X X	AUG-SEP	AUG-NOV	MAR-MAY	-	AUG-SEP
360	Globose dune beetle		X X X X X X X X X X X X	-	-	-	-	JAN-DEC
363	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	-	-	-	-
350	Harbor seal		X X X X X X X X X X X X	-	-	-	-
352	Harbor seal	2000 INDIV.	X X X X X X X X X X X X	-	-	-	-
354	Northern elephant seal	2000 INDIV.	X X X X X X X X X X X X	DEC-MAR	-	DEC-MAR	MAY-JUN
361	California sea lion	11-1388 INDIV.	X X X X X X X X X X X X	-	-	-	-
	Harbor seal	292-319 INDIV.	X X X X X X X X X X X X	-	-	MAR-JUN	-
	Steller sea lion	T 0-13 INDIV.	X 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 X	-	DEC-FEB	-	-
673	Bottlenose dolphin	LOW	X 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 X	-	-	-	-
	Fin whale	E LOW	X 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 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 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 X	-	-	-	-
	Risso's dolphin	LOW	X 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 X	-	-	-	-
	Sea otter	T LOW	X 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 X	-	-	-	-
	Short-beaked common dolphin	LOW	X 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 X	-	-	-	-
677	Harbor porpoise	MODERATE	X 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 X X X X X X X	-	-	-	-
	Humpback whale	E MODERATE	X 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
351	California red-legged frog	T 100 INDIV.	X 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 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
352	Northern river otter		X X X X X X X X X X X X
356	Point Reyes jumping mouse		X X X X X X X X X X X X

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Snowy plovers, March-September, no vehicles without escort.
2	Colonial seabirds, keep aircraft away, March-August.
3	Seal and sea lion haul-outs and rookeries, no vehicles without escort along entire headlands.
4	Peregrine falcons nest along headlands.
5	Sensitive plant species present at high tide line and in dunes throughout area.

AQUACULTURE:

HUN#	Name	Contact	Phone
16	JOHNSON'S DRAKES BAY OYSTER CO.		415/669-1149

BEACH:

HUN#	Name	Contact	Phone
25	ABBOTTS BEACH		
35	DRAKES BEACH AND DRAKES BAY		
41	LIMANTOUR BEACH		
54	NORTH BEACH		
73	SOUTH BEACH		

BOAT RAMP:

HUN#	Name	Contact	Phone
79	BOAT RAMP		

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
176	ESTERO DE LIMANTOUR - SMCA	CDF&G	
196	POINT REYES HEADLANDS - SMCA	CDF&G	

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
218	GULF OF THE FARALLONES NMS	NOAA	415/561-6622

NATIONAL PARK:

HUN#	Name	Contact	Phone
221	GOLDEN GATE NATIONAL RECREATION AREA	NATIONAL PARK SERVICE	415/561-4700
223	PHILIP BURTON WILDERNESS	NATIONAL PARK SERVICE	415/464-5100
224	POINT REYES NATIONAL SEASHORE	NATIONAL PARK SERVICE	415/464-5100

PARK:

HUN#	Name	Contact	Phone
281	TOMALES BAY SP	CA DEPT OF PARKS AND RECREATION	

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 41

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
370	Seabirds	HIGH	X	X	X	X	X	X	X						FEB-AUG	-	-
371	American peregrine falcon	E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Waterfowl		X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
413	Diving birds	15000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	20000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	300000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
551	Brandt's cormorant	161 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	65000 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Pelagic cormorant	62 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	42 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Western gull	32 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
623	Ashy storm-petrel	1990 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-NOV	-	-
	Black oystercatcher	22 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Brandt's cormorant	12000 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Cassin's auklet	18807 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Common murre	103588 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	DEC-JUL	-	-
	Double-crested cormorant	486 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
	Leach's storm-petrel	1400 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-OCT	-	-
	Pelagic cormorant	442 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-SEP	-	-
	Pigeon guillemot	1000 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Rhinoceros auklet	516 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-SEP	-	-
	Tufted puffin	128 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	APR-NOV	-	-
	Western gull	19000 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	MAR-AUG	-	-
693	Black-footed albatross	MODERATE	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	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	X	X	-	-	-
697	Cassin's auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
700	Ashy storm-petrel	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Black-footed albatross	MODERATE	X	X	X	X	X	X	X				X		-	-	-
	Brown pelican	E E LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	JUL-NOV	-
	Cassin's auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Common murre	HIGH	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	-	-	-
	Gulls	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Loons	LOW	X	X	X	X			X	X	X				-	OCT-MAY	-
	Pacific loon	LOW	X	X	X	X			X	X	X				-	OCT-MAY	-
	Phalaropes	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Pigeon guillemot	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	FEB-AUG	-	-
	Rhinoceros auklet	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Shearwaters	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Sooty shearwater	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	APR-OCT
	Storm-petrels	LOW	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
	Xantus' murrelet	T LOW							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
371	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	-	-	-	-
364	California sea lion	2-502 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	-
	Steller sea lion	T 2-55 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	-
365	California sea lion	1327-11553 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	-
	Steller sea lion	T 54-215 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	-
366	Harbor seal	6 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	-
367	Harbor seal	30-166 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	-
368	Harbor seal	105 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAR-JUN	-
369	Northern elephant seal	200-800 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	NOV-MAR	-	DEC-MAR	APR-JUL
	Northern fur seal	20-100 INDIV.	X	X	X	X	X	X	X	X	X	X	X	X	-	-	MAY-AUG	-
693	Baird's beaked whale	LOW				X	X	X	X	X	X				-	-	-	-
	California sea lion	LOW	X	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	X	-	-	-	-
	Dwarf sperm whale	LOW	X	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	X	-	-	-	-
	Guadalupe fur seal	T T LOW	X	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	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	-	-	-	-
	Mesoplodont beaked whales	LOW	X	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	X	-	MAR-MAY	-	-
	Northern elephant seal	MODERATE	X	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	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	X	-	-	-	-
	Pacific white-sided dolphin	MODERATE	X	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	X	-	-	-	-
	Risso's dolphin	MODERATE	X	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	X	-	SEP-MAR	-	-
	Short-beaked common dolphin	MODERATE	X	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	X	-	-	-	-
	Sperm whale	E LOW	X	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	X	-	-	-	-
699	Blue whale	E MODERATE						X	X	X	X	X	X		-	-	-	-
	Dall's porpoise	LOW	X	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	X	-	-	-	-
	Humpback whale	E MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
700	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	-	-
	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	MODERATE	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	-	-	-	-
	Risso's dolphin	MODERATE	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-
	Sea lions	LOW	X	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	X	-	-	-	-
	Short-beaked common dolphin	LOW	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 41 (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
700	Short-finned pilot whale	LOW	X X X X X X X X X X X	-	-	-	-
701	Blue whale	E MODERATE	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
693	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV
700	Leatherback sea turtle	E LOW	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

ALERT:

ID#	Description
1	Marine sanctuary, keep aircraft away year round. Emergency helicopter landing by permission from the Incident Commander.
2	Major seabird and marine mammal hot spot, entire area.

SAMPLING SITE:

HUN#	Name	Contact	Phone
137	PISCO:MUSSEL FLAT, USFWS, PRBO	PETE RAIMONDI, JOELLE BUFFA	831/459-5674

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
177	FARALLON ISLANDS - SMCA	CDF&G	

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
218	GULF OF THE FARALLONES NMS	NOAA	415/561-6622

WILDLIFE REFUGE:

HUN#	Name	Contact	Phone
353	FARALLON NWR	US FISH AND WILDLIFE SERVICE	510/792-0222

Central California: Sanctuary Map

BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J	F	M	A	M	J	J	A	S	O	N	D	Nesting	Migrating	Molting
413	Diving birds	15000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	20000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	300000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
414	Diving birds	1100 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	800 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
415	Diving birds	8000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	1400 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	1300 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
416	Diving birds	15000 INDIV.						X	X	X	X				APR-AUG	-	-
	Gulls	200 INDIV.						X	X	X	X				APR-AUG	-	-
417	Diving birds	1500 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Gulls	100 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	2000 INDIV.	X	X	X	X	X	X	X						FEB-AUG	-	-
418	Diving birds	HIGH	X	X	X	X	X	X	X						FEB-AUG	-	-
	Seabirds	HIGH	X	X	X	X	X	X	X						FEB-AUG	-	-
429	California condor	E E	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-
430	Grebes	HIGH	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	-
679	Sooty shearwater	HIGH						X	X	X	X				-	-	JUN-SEP
681	Marbled murrelet	E T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	-	-
687	Marbled murrelet	E T HIGH	X	X	X	X	X	X	X	X	X	X	X	X	APR-JUL	AUG-MAR	-
694	Ashy storm-petrel	HIGH								X	X	X	X		-	-	-
	Storm-petrels	HIGH								X	X	X	X		-	-	-
695	Cassin's auklet	HIGH						X	X	X					-	-	-
698	Ashy storm-petrel	HIGH								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
426	Gray whale		X X X X X	X X	-	DEC-FEB	-
676	Harbor porpoise	8500 INDIV.	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
683	Blue whale	E HIGH		X X X X X X	-	-	-
	Humpback whale	E HIGH	X X X X X X X X X X	-	-	-	-
686	Harbor porpoise	1600 INDIV.	X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
690	Blue whale	E HIGH	X X X X X X X X X X	-	-	-	-
	Dall's porpoise	HIGH	X X X X X X X X X X X X	-	-	-	-
	Dolphins	HIGH	X X X X X X X X X X X X	-	-	-	-
	Humpback whale	E HIGH	X X X X X X X X X X	-	-	-	-
	Sea lions	HIGH	X 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
674	Leatherback sea turtle	E HIGH	X X X X X X X	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
217	CORDELL BANK NATIONAL MARINE SANCTUARY	NOAA	415/663-0314
218	GULF OF THE FARALLONES NMS	NOAA	415/561-6622
219	MONTEREY BAY NATIONAL MARINE SANCTUARY	SUPERINTENDENT	831/647-4201