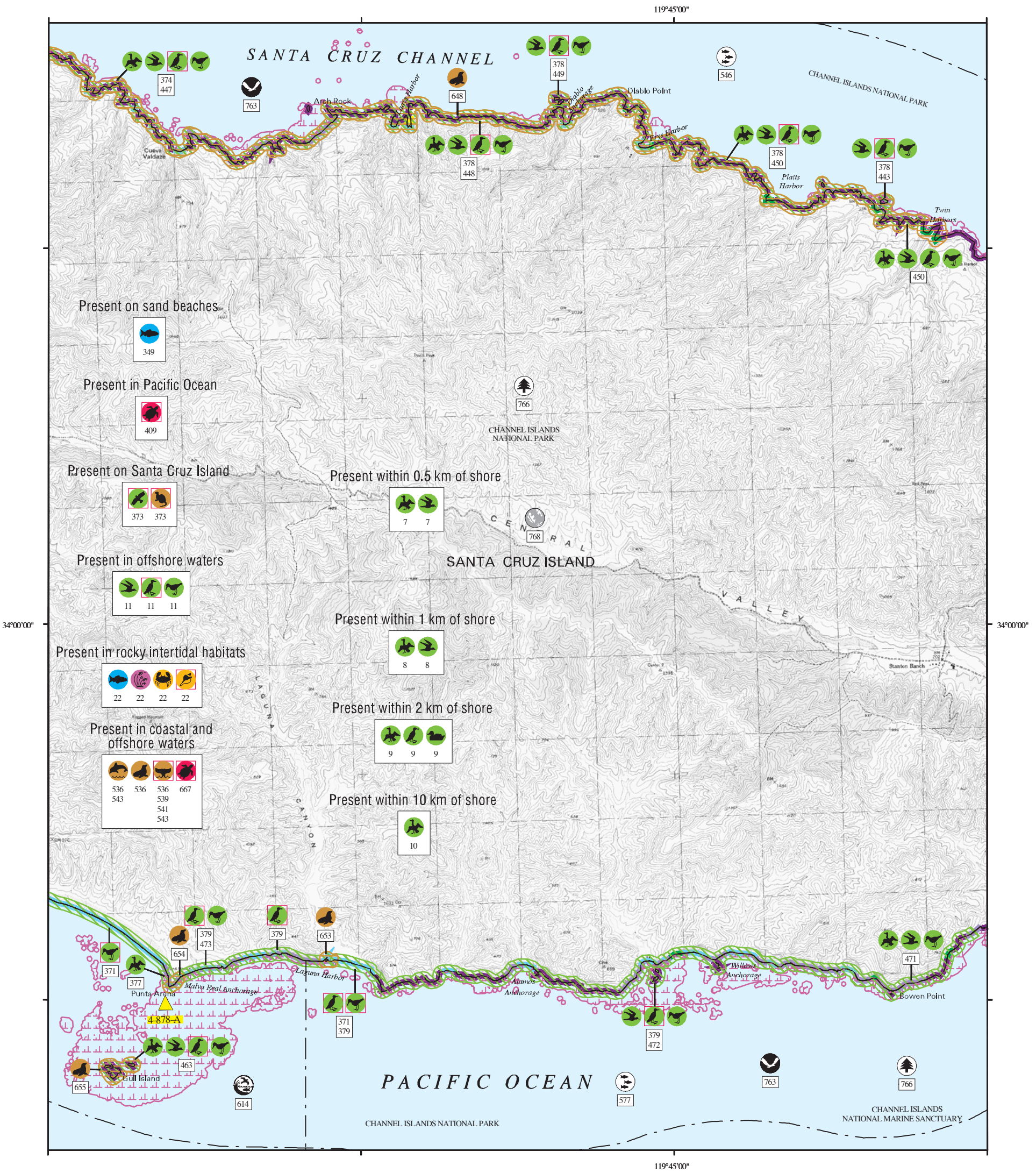
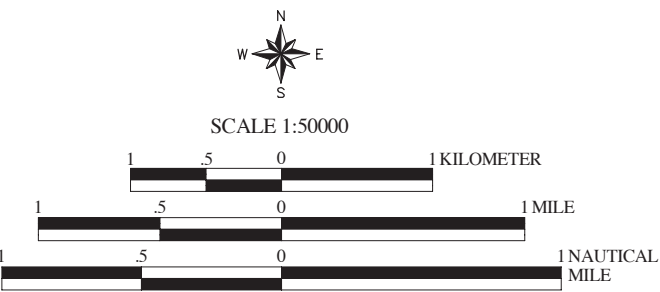


ENVIRONMENTAL SENSITIVITY INDEX MAP



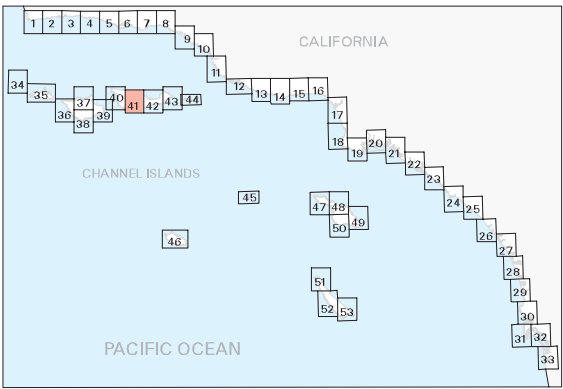
SHORELINE HABITATS (ESI)

- 1A EXPOSED ROCKY SHORES
- 1B EXPOSED, SOLID, MAN-MADE STRUCTURES
- 2A EXPOSED WAVE-CUT PLATFORMS IN BEDROCK
- 3A FINE- TO MEDIUM-GRAINED SAND BEACHES
- 3B SCARPS AND STEEP SLOPES IN SAND
- 4 COARSE-GRAINED SAND BEACHES
- 5 MIXED SAND AND GRAVEL BEACHES
- 6A GRAVEL BEACHES
- 6D BOULDER RUBBLE
- 6B RIPRAP
- 7 EXPOSED TIDAL FLATS
- 8A SHELTERED ROCKY SHORES
- 8B SHELTERED, SOLID MAN-MADE STRUCTURES
- 8C SHELTERED RIPRAP
- 9A SHELTERED TIDAL FLATS
- 9B VEGETATED LOW BANKS
- 9C HYPERSALINE TIDAL FLATS
- 10A SALT-AND BRACKISH-WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMPS
- 10D SCRUB-SHRUB WETLANDS



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Office of Response and Restoration
Emergency Response Division



Southern 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
7	Common loon		X X X X X	-	-	-
	Elegant tern		X X X X X	-	-	-
	Pacific loon		X X X X X	-	-	-
8	California gull		X X X X X	-	-	-
	Double-crested cormorant		X X X X X	-	-	-
	Heermann's gull		X X X X X	-	-	-
9	Pigeon guillemot		X X X X X	-	-	-
	Surf scoter		X X X X X	-	-	-
	Western grebe		X X X X X	-	-	-
10	Brandt's cormorant		X X X X X	-	-	-
	Brown pelican		X X X X X	-	-	-
	Pelagic cormorant		X X X X X	-	-	-
11	Ashy storm-petrel	C	X X X X X	-	-	-
	Black-legged kittiwake		X X X X X	-	-	-
	Black-vented shearwater		X X X X X	-	-	-
	Cassin's auklet	C	X X X X X	-	-	-
	Northern fulmar		X X X X X	-	-	-
	Pink-footed shearwater		X X X X X	-	-	-
	Red phalarope		X X X X X	-	-	-
	Red-necked phalarope		X X X X X	-	-	-
	Rhinoceros auklet		X X X X X	-	-	-
	Sooty shearwater		X X X X X	-	-	-
	Western gull		X X X X X	-	-	-
	Xantus's murrelet	T	X X X X X	-	-	-
371	Western snowy plover	C T 10 BIRDS	X X X X X	MAR-SEP	-	-
373	Bald eagle	E	X X X X X	-	-	-
	Osprey		X X X X X	-	-	-
	Peregrine falcon		X X X X X	-	-	-
374	Xantus's murrelet	T 30-90	X X X X X	MAR-JAN	-	-
377	Brown pelican		X X X X X	-	-	-
378	Xantus's murrelet	T 20-50	X X X X X	MAR-JAN	-	-
379	Xantus's murrelet	T 10-30	X X X X X	MAR-JAN	-	-
443	Ashy storm-petrel	C 40	X X X X X	JAN-SEP	-	-
	Black oystercatcher	4	X X X X X	MAR-SEP	-	-
	Cassin's auklet	C 10	X X X X X	MAR-OCT	-	-
	Western gull	16	X X X X X	FEB-SEP	-	-
447	Black oystercatcher	8	X X X X X	MAR-SEP	-	-
	Brandt's cormorant	45	X X X X X	APR-JUN	-	-
	Pelagic cormorant	22	X X X X X	APR-JUN	-	-
	Pigeon guillemot	129	X X X X X	MAR-SEP	-	-
	Western gull	64	X X X X X	FEB-SEP	-	-
448	Black oystercatcher	7	X X X X X	MAR-SEP	-	-
	Pelagic cormorant	31	X X X X X	APR-JUN	-	-
	Pigeon guillemot	82	X X X X X	MAR-SEP	-	-
	Western gull	122	X X X X X	FEB-SEP	-	-
449	Ashy storm-petrel	C 20	X X X X X	JAN-SEP	-	-
	Black oystercatcher	4	X X X X X	MAR-SEP	-	-
	Cassin's auklet	C 28	X X X X X	MAR-OCT	-	-
	Pigeon guillemot	10	X X X X X	MAR-SEP	-	-
	Western gull	62	X X X X X	FEB-SEP	-	-
450	Black oystercatcher	6	X X X X X	MAR-SEP	-	-
	Pelagic cormorant	9	X X X X X	APR-JUN	-	-
	Pigeon guillemot	10	X X X X X	MAR-SEP	-	-
	Western gull	32	X X X X X	FEB-SEP	-	-
463	Ashy storm-petrel	C 2	X X X X X	JAN-SEP	-	-
	Black oystercatcher	6	X X X X X	MAR-SEP	-	-
	Brandt's cormorant	1869	X X X X X	APR-JUN	-	-
	Brown pelican	365	X X X X X	-	-	-
	Cassin's auklet	C 132	X X X X X	MAR-OCT	-	-
	Pelagic cormorant	22	X X X X X	APR-JUN	-	-
	Pigeon guillemot	2	X X X X X	MAR-SEP	-	-
	Western gull	162	X X X X X	FEB-SEP	-	-
	Xantus's murrelet	T 0-10	X X X X X	MAR-JAN	-	-
471	Black oystercatcher	1	X X X X X	MAR-SEP	-	-
	Pelagic cormorant	4	X X X X X	APR-JUN	-	-
	Western gull	10	X X X X X	FEB-SEP	-	-
472	Black oystercatcher	4	X X X X X	MAR-SEP	-	-
	Cassin's auklet	C 10	X X X X X	MAR-OCT	-	-
	Western gull	18	X X X X X	FEB-SEP	-	-
473	Black oystercatcher	1	X X X X X	MAR-SEP	-	-

FISH:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
22	Rocky intertidal fish		X X X X X	-	-	-	-	-
349	California grunion	POSSIBLE RUNS	X X X X X	MAR-AUG	MAR-SEP	MAR-SEP	MAR-SEP	JAN-DEC

HABITAT:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
22	Rocky intertidal plants		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
22	Black abalone	E POTENTIAL	X X X X X	-	-	-	-	-
	Rocky intertidal invertebrates		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
536	Bottlenose dolphin	PRIMARY	X X X X X	-	-	-	-
	California sea lion	PRIMARY	X X X X X	-	-	-	AUG-SEP
	Dall's porpoise	PRIMARY	X X X X X	-	-	-	-
	Dall's porpoise	SECONDARY	X X X X X	-	-	-	-
	Killer whale	PRIMARY	X X X X X	-	-	-	-
	Minke whale	PRIMARY	X X X X X	-	-	-	-
	Northern right-whale dolphin	PRIMARY	X X X X X	-	-	-	-
	Northern right-whale dolphin	SECONDARY	X X X X X	-	-	-	-
	Pacific white-sided dolphin	PRIMARY	X X X X X	-	-	-	-
	Pacific white-sided dolphin	SECONDARY	X X X X X	-	-	-	-
	Risso's dolphin	PRIMARY	X X X X X	-	-	-	-
	Short-beaked common dolphin	PRIMARY	X X X X X	-	-	-	-
	Short-finned pilot whale	RARE	X X X X X	-	-	-	-
	Striped dolphin	RARE	X X X X X	-	-	-	-
539	Baird's beaked whale	SECONDARY	X X X X X	-	-	-	-
	Cuvier's beaked whale	SECONDARY	X X X X X	-	-	-	-
	Mesoplodont beaked whales	SECONDARY	X X X X X	-	-	-	-
	Sperm whale	E SECONDARY	X X X X X	-	-	-	-
541	Blue whale	E PRIMARY	X X X X X	-	-	-	-
	Blue whale	E RARE	X X X X X	-	-	-	-
	Bryde's whale	RARE	X X X X X	-	-	-	-
	Fin whale	E PRIMARY	X X X X X	-	-	-	-
	Fin whale	E SECONDARY	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.

Southern 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
541	Humpback whale	E PRIMARY	X X X X X X X X	-	-	-	-
	Humpback whale	E SECONDARY	X X X X X X X X	-	-	-	-
	North Pacific right whale	E RARE	X X X X X X X X	-	-	-	-
543	Gray whale	PRIMARY	X X X X X X X X	-	-	-	-
	Gray whale	RARE	X X X X X X	-	-	-	-
	Gray whale	SECONDARY	X X X X X X	-	-	-	-
	Long-beaked common dolphin	PRIMARY	X X X X X X X X X X	-	-	-	-
648	Pacific harbor seal	121-172 INDIV.	X X X X X X X X X X X X	-	-	-	MAY-JUL
653	Pacific harbor seal	1 INDIV.	X X X X X X X X X X X X	-	-	-	MAY-JUL
654	Pacific harbor seal	26 INDIV.	X X X X X X X X X X X X	-	-	-	MAY-JUL
655	California sea lion	709 INDIV.	X X X X X X X X X X X X	-	-	-	AUG-SEP

REPTILE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Hatching	Internesting	Juveniles	Adults
409	Loggerhead sea turtle	T RARE	X X X X X X X X X X X X	-	-	-	-	-
667	Leatherback sea turtle	E PRIMARY	X X X X X	-	-	-	-	MAR-JUL

TERRESTRIAL MAMMAL:

RAR#	Species	S F Conc.	J F M A M J J A S O N D
373	Santa Cruz island fox	T E	X X X X X X X X X X X X

HUMAN USE RESOURCES:

ACP SENSITIVE SITES:

ACP SITE#	Name	Contact
4-878-A	Santa Cruz Island, Punta Arena to Near Point	CDF&G OSPR

FISHERY AREA:

HUN#	Name	J F M A M J J A S O N D
546	Cabazon	X X X X X X X X X X
	California halibut	X X X X X X X X X X X X
	California market squid	X X X X X X X X X X X X
	California scorpionfish	X X X X X X X X X X X X
	California sheephead	X X X X X X X X X X
	California spiny lobster	X X X X X X X X X X
	Dover sole	X X X X X X X X X X X X
	Kelp bass	X X X X X X X X X X X X
	Lingcod	X X X X X X X X X X
	Northern anchovy	X X X X X X X X X X X X
	Ocean whitefish	X X X X X X X X X X X X
	Pacific angel shark	X X X X X X X X X X X X
	Pacific bonito	X X X X X X X X X X X X
	Pacific chub mackerel	X X X X X X X X X X X X
	Pacific sanddab	X X X X X X X X X X X X
	Pacific sardine	X X X X X X X X X X X X
	Ridgeback prawn	X X X X X X X X X X
	Rock crabs	X X X X X X X X X X X X
	Rockfish	X X X X X X X X X X X X
	Sablefish	X X X X X X X X X X X X
	Sea cucumbers	X X X X X X X X X X X X
	Sea urchins	X X X X X X X X X X X X
	Shark	X X X X X X X X X X X X
	Sheep crab	X X X X X X X X X X X X
	Spot prawn	X X X X X X X X X X
	Surfperch	X X X X X X X X X X X X
	Thornyhead spp.	X X X X X X X X X X X X
	Tuna	X X X X X X X X X X X X
	Warty sea cucumber	X X X X X X X X X X X X
	White seabass	X X X X X X X X X X X X
	Yellowtail	X X X X X X X X X X X X
577	Barred sand bass	X X X X X X X X X X X X
	California halibut	X X X X X X X X X X X X
	California market squid	X X X X X X X X X X X X
	California scorpionfish	X X X X X X X X X X X X
	California sheephead	X X X X X X X X X X X X
	California spiny lobster	X X X X X X X X X X
	Dover sole	X X X X X X X X X X X X
	Kelp bass	X X X X X X X X X X X X
	Lingcod	X X X X X X X X X X
	Northern anchovy	X X X X X X X X X X X X
	Ocean whitefish	X X X X X X X X X X X X
	Pacific bonito	X X X X X X X X X X X X
	Pacific chub mackerel	X X X X X X X X X X X X
	Pacific sanddab	X X X X X X X X X X X X
	Pacific sardine	X X X X X X X X X X X X
	Rock crabs	X X X X X X X X X X X X
	Rockfish	X X X X X X X X X X X X
	Sablefish	X X X X X X X X X X X X
	Sea cucumbers	X X X X X X X X X X X X
	Sea urchins	X X X X X X X X X X X X
	Shark	X X X X X X X X X X X X
	Sheep crab	X X X X X X X X X X X X
	Spot prawn	X X X X X X X X X X
	Surfperch	X X X X X X X X X X X X
	Swordfish	X X X X X X X X X X X X
	Thornyhead spp.	X X X X X X X X X X X X
	Tuna	X X X X X X X X X X X X
	Warty sea cucumber	X X X X X X X X X X X X
	White seabass	X X X X X X X X X X X X
	Yellowtail	X X X X X X X X X X X X

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
614	GULL ISLAND MARINE RESERVE		

MARINE SANCTUARY:

HUN#	Name	Contact	Phone
763	CHANNEL ISLANDS NMS	NOAA	805/382-6149

Southern California: ESIMAP 41 (cont.)

HUMAN USE RESOURCES: (cont.)

NATIONAL PARK:

HUN#	Name	Contact	Phone
766	CHANNEL ISLANDS NATIONAL PARK	NATIONAL PARK SERVICE	805/658-5700

NATURE CONSERVANCY:

HUN#	Name	Contact	Phone
768	SANTA CRUZ ISLAND	THE NATURE CONSERVANCY	805/642-0345