

ENVIRONMENTAL SENSITIVITY INDEX MAP

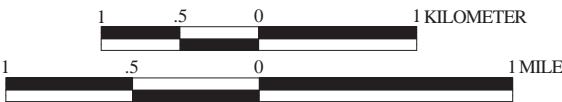


SHORELINE HABITATS (ESI)

- 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
- 10A SALT- AND BRACKISH- WATER MARSHES
- 10B FRESHWATER MARSHES
- 10C SWAMPS
- 10D SCRUB- SHRUB WETLANDS

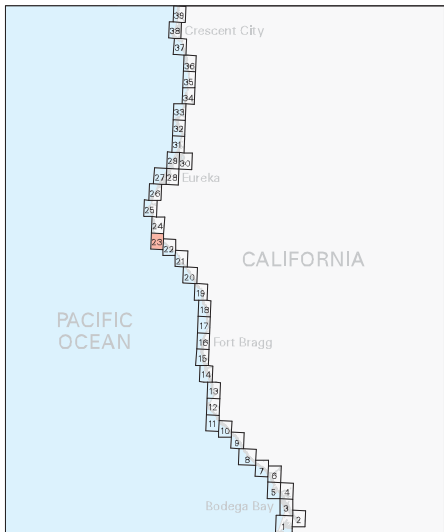


SCALE 1:48000



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BIOLOGICAL RESOURCES:

BIRD:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Nesting	Migrating	Molting
81	Marbled murrelet	E T LOW	- - - - - X X X X X X X X - -	-	-	-
114	Shorebirds		X X X X - X X X X X X X - -	-	MAR-APR JUL-OCT	-
252	Pelagic cormorant	17 INDIV.	X X X X X X X X X X X X X	MAR-AUG	-	-
	Western gull	2 INDIV.	X X X X X X X X X X X X X	APR-JUL	-	-
462	Black scoter		X X X X - - - - - X X - - -	-	-	-
	Brandt's cormorant		- - - X X X X X X X X - -	-	-	-
	Clark's grebe		X X X X - - - - - X X X - -	-	-	-
	Common loon		X X X X X - - - - X X X X -	-	-	-
	Common murre		X X X X X X X X X X X X X	-	-	-
	Double-crested cormorant		X X X X X X X X X X X X X	-	-	-
	Eared grebe		X X X X - - - - - X X X X -	-	-	-
	Horned grebe		X X X X - - - - - X X X - -	-	-	-
	Pacific loon		- - - X X X - - - - - X X - -	-	-	-
	Pelagic cormorant		X X X X X X X X X X X X X	-	-	-
	Red-throated loon		X X X X X - - - - X X - - -	-	-	-
	Surf scoter		X X X X - - - - - X X X X -	-	-	-
	Western grebe		X X X X X - - - - X X X X -	-	-	-
	White-winged scoter		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
187	Bat ray		- - - - - X X X X X X X X - -	-	-	-	MAR-NOV	MAR-NOV
	Black rockfish		X X X X X X X X X X X X X	SEP-NOV	-	JAN-MAY	JAN-DEC	JAN-DEC
	Black-and-yellow rockfish		X X X X X X X X X X X X X	MAR-JUN	-	MAR-MAY	JAN-DEC	JAN-DEC
	Blue rockfish		X X X X X X X X X X X X X	NOV-MAR	-	-	JAN-DEC	JAN-DEC
	Bocaccio		X X X X X X X X X X X X X	JAN-MAY	JAN-MAY	FEB-MAY	JAN-DEC	JAN-DEC
	Brown rockfish		X X X X X X X X X X X X X	DEC-JUL	-	-	JAN-DEC	JAN-DEC
	Brown smoothhound		X X X X X X X X X X X X X	MAR-SEP	-	-	JAN-DEC	JAN-DEC
	Cabazon		X X X X X X X X X X X X X	OCT-MAR	OCT-APR	OCT-APR	JAN-DEC	JAN-DEC
	California halibut		X X X X X X X X X X X X X	FEB-JUN	JAN-SEP	JAN-SEP	JAN-DEC	FEB-OCT
	California skate		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Canary rockfish (orange)		X X X X X X X X X X X X X	DEC-MAR	DEC-MAR	DEC-APR	JAN-DEC	JAN-DEC
	Chilipepper		X X X X X X X X X X X X X	NOV-JUN	NOV-JUN	JAN-JUN	JAN-DEC	JAN-DEC
	China rockfish		X X X X X X X X X X X X X	JAN-JUL	-	-	JAN-DEC	JAN-DEC
	Chinook salmon		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Coho salmon		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Copper rockfish		X X X X X X X X X X X X X	FEB-APR	FEB-APR	FEB-APR	JAN-DEC	JAN-DEC
	English sole		X X X X X X X X X X X X X	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC	JAN-DEC
	Grass rockfish		X X X X X X X X X X X X X	DEC-FEB	DEC-MAR	JAN-JUN	JAN-DEC	JAN-DEC
	Gray smoothhound		- - - X X X X - - - - - - -	-	-	-	-	JUN-SEP
	Green sturgeon		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Jacksmelt		X X X X X X X X X X X X X	JAN-AUG	JAN-AUG	JAN-DEC	JAN-DEC	JAN-DEC
	Kelp greenling		X X X X X X X X X X X X X	DEC-MAR	-	-	JAN-DEC	JAN-DEC
	Leopard shark		X X X X X X X X X X X X X	MAR-JUN	-	-	JAN-DEC	OCT-JUN
	Lingcod		X X X X X X X X X X X X X	NOV-APR	DEC-FEB	FEB-APR	JAN-DEC	JAN-DEC
	Longnose skate		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Monkeyface prickleback		X X X X X X X X X X X X X	JAN-APR	-	-	JAN-DEC	JAN-DEC
	Northern anchovy		- - - X X X X - - - - - - -	-	-	JUN-SEP	JUN-NOV	JUN-OCT
	Pacific herring		X X X X X X X X X - - X X	NOV-MAR	NOV-MAR	NOV-MAR	MAR-AUG	NOV-MAR
	Pacific sanddab		X X X X X X X X X X X X X	JUL-SEP	-	-	JAN-DEC	JAN-DEC
	Pacific sardine		- - - X X X - - - - - - - -	-	-	-	-	JUN-AUG
	Quillback rockfish		X X X X X X X X X X X X X	MAR-JUL	-	-	JAN-DEC	JAN-DEC
	Rock greenling		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sand sole		X X X X X X X X X X X X X	JAN-JUL	-	-	JAN-DEC	JAN-DEC
	Sandpaper skate		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Sevengill shark		- - - X X X X X X X X - -	-	-	-	-	MAR-NOV
	Sixgill shark		X X X X X X X X X X X X X	JUN-SEP	-	-	JAN-DEC	JAN-DEC
	Speckled sanddab		X X X X X X X X X X X X X	MAR-OCT	-	AUG-DEC	JAN-DEC	JAN-DEC
	Spiny dogfish		X X X X X X X X X X X X X	JAN-DEC	-	-	JAN-DEC	JAN-DEC
	Starry flounder		X X X X X X X X X X X X X	NOV-FEB	-	-	JAN-DEC	JAN-DEC
	Steelhead		X X X X X X X X X X X X X	-	-	-	JAN-DEC	JAN-DEC
	Striped surfperch		X X X X X X X X X X X X X	MAY-JUN	-	-	JAN-DEC	JAN-DEC
	Topsmelt		X X X X X X X X X X X X X	APR-JUL	APR-JUL	MAY-AUG	JAN-DEC	JAN-DEC
	Vermilion rockfish		X X X X X X X X X X X X X	DEC-MAR	-	-	JAN-DEC	JAN-DEC
	Yellowtail rockfish		X X X X X X X X X X X X X	JAN-JUL	JAN-JUL	JAN-JUL	JAN-DEC	JAN-DEC
512	Steelhead	T	X X X X X X X X X X X X X	DEC-MAY	DEC-JUN	DEC-JUL	JAN-DEC	OCT-JUN

INVERTEBRATE:

RAR#	Species	S F Conc.	J F M A M J J A S O N D	Spawning	Eggs	Larvae	Juveniles	Adults
187	California market squid		X X X X X X X X X X X X X	APR-NOV	APR-NOV	APR-JAN	JAN-DEC	JAN-DEC
	Dungeness crab		X X X X X X X X X X X X X	MAR-JUN	-	MAR-SEP	JUN-SEP	JAN-DEC
	Ocean pink shrimp		X X X X X X X X X X X X X	SEP-OCT	OCT-APR	MAR-JUL	JAN-DEC	JAN-DEC
	Spot prawn		X X X X X X X X X X X X X	SEP-APR	SEP-APR	SEP-APR	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
13	Gray whale		X X X X X X X X X X X X X	-	DEC-FEB	-	-
111	Killer whale	LOW	X 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 X	-	-	-	-
	Pacific white-sided dolphin	LOW	X 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 X	-	-	-	-
	Short-finned pilot whale	LOW	X X X X X X X X X X X X X	-	-	-	-
115	California sea lion	1-519 INDIV.	X X X X X X X X X X X X X	-	-	-	-
116	Harbor seal	107-160 INDIV.	X X X X X X X X X X X X X	-	-	-	-
117	Steller sea lion	T 5 INDIV.	X X X X X X X X X X X X X	-	-	-	-
118	Harbor porpoise	HIGH	X X X X X X X X X X X X X	JUL-SEP	JUN-AUG	-	-
302	Harbor porpoise	MODERATE	X X 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
111	Leatherback sea turtle	E VERY LOW	- - - - - X X X X X X X - -	-	-	-	-	MAY-NOV

HUMAN USE RESOURCES:

MANAGEMENT AREA:

HUN#	Name	Contact	Phone
203	PUNTA GORDA SMR	CDFG	