



PURPOSE

This map is intended to provide a regional overview of the environmentally sensitive nearshore and offshore marine resources of the Central California Coast and Monterey Bay National Marine Sanctuary. The geographical extent of all polygons is depicted in the digital data available on the CD-ROM.

BIOLOGICAL RESOURCES

The resources depicted on this map were selected on the basis of their high sensitivity and/or vulnerability to spilled oil or their special management status. The focus of this regional map is to depict whale migration routes, marine bird and cetacean "hot spots" and feeding areas, and sea turtle concentration areas.

Species have been divided into groups and subgroups based on their behavior, morphology, taxonomic classification, and spill vulnerability and sensitivity. The icons in the legend below reflect this grouping scheme. Polygons are color-coded based on the species composition of each feature. There is a Resources at Risk number (RAR#) located under each icon or group of icons. The RAR# references the table with a complete list of species associated with the feature. Also associated with each species in the table is the state and federal protected status as threatened (T) or endangered (E) as well as concentration, seasonality, and life-history information.

Eight zones were created by USGS, NOAA, and MLML marine bird, mammal, and sea turtle experts in order to

depict the overall distribution of pelagic species throughout the study area from the nearshore environment to offshore waters. The zones differ in depth, distance from shore, and other habitat features. Species present in each zone are listed in the "Zones" matrix. Also associated with each species in the matrix is the state and federal protected status as well as concentration (see Key for details) and seasonal presence.

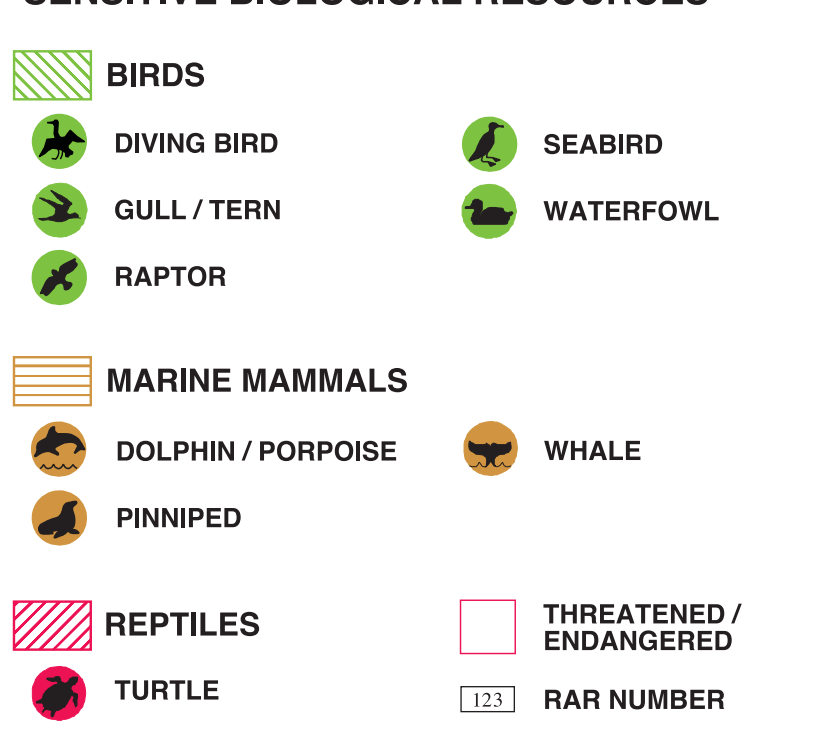
Users of this map should be aware that they include the best available, but still incomplete, depiction of marine birds, mammals, and reptiles in Central California. The accompanying 41 maps in the ESI Atlas contain additional information for these and other species groups on a finer scale and should be used for any nearshore planning or management. For example, the California Sturgeon (*Acipenser medirostris*, federally threatened) are present at varying densities from south of the San Francisco Bay mouth to Point Conception. Because sea otters are highly sensitive to oil spills, suffering death from hypothermia and severe internal injuries from the ingestion and inhalation of oil, their presence throughout the area and the presence of oil in the water response activities (e.g., dispersed rockers, haul-out, and concentration areas and seabird nesting locations are depicted in detail on the 41 maps.

OTHER MAPPED INFORMATION

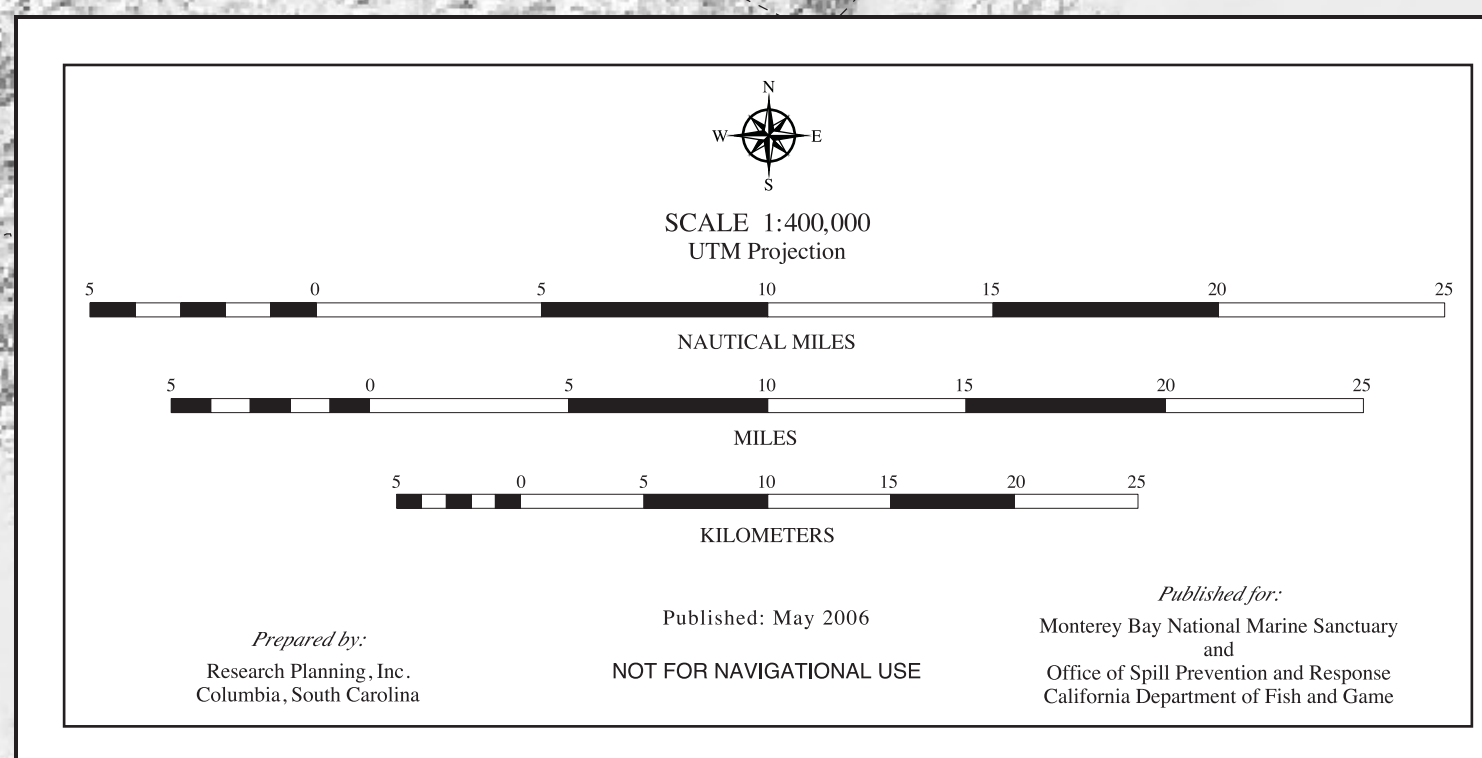
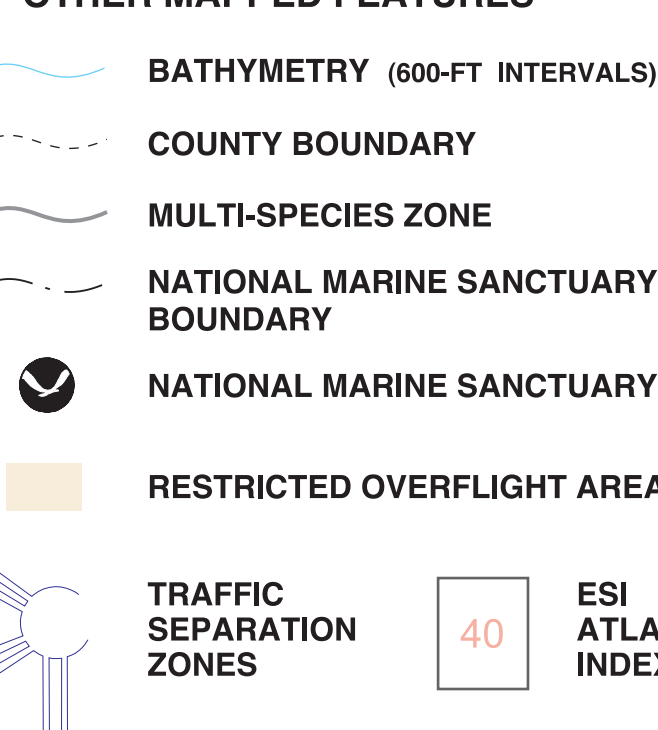
The map includes other human-use resources and oceanographic features (bathymetry) related to oil spill planning and response. The boundaries of National Marine Sanctuaries are shown. Restricted Overflight Areas and Traffic Separation Zones are also shown.

LEGEND

SENSITIVE BIOLOGICAL RESOURCES



OTHER MAPPED FEATURES

[illegible]

HUMAN-USE RESOURCES

MARINE SANCTUARY:		
<u>HUN#</u>	<u>Name</u>	<u>Contact</u>
217	CORDELL BANK NATIONAL MARINE SANCTUARY	NOAA
218	GULF OF THE FARALLONES NMS	NOAA
219	MONTEREY BAY NATIONAL MARINE SANCTUARY	SUPERINTENDENT

ZONES MATRIX

REPTILES:		F	1	2	3	4	5	6	7	8	SEASONAL PRESENCE
Leffertsee test turtle		E	xx	xx	xx	x	x	x	x	x	May-November
BIRDS:											
Gair's gull			xx	xx	xx	xx	x	-	-	-	September-April
Western grackle			xx	xx	xx	xx	xx	-	-	-	September-April
Hooded gull			xx	xx	xx	xx	xx	-	-	-	September-April
Eared grebe			x	x	x	x	x	-	-	-	September-April
Common murre			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Rhinoscaphus adeli			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Sooty shearwater			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Other shearwaters			x	x	x	x	x	x	x	x	January-December
Mottled turnstone		E	xx	xx	xx	xx	xx	xx	xx	xx	January-December
Soot scur			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Willet-winged scur			xx	xx	xx	xx	xx	xx	xx	xx	October-April
Gull (multiple species)			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Pacific loon			xx	xx	xx	xx	xx	xx	xx	xx	October-May
Pomarine			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Comorants			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Black-throated diver			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Brown pelican		E	xx	xx	xx	xx	xx	xx	xx	xx	January-December
Jack's murrelet			xx	xx	xx	xx	xx	xx	xx	xx	July-December
Adly storm-petrel			-	-	-	-	-	x	x	-	January-December
Other storm-petrels			-	-	-	-	-	x	x	-	January-December
Cassin's auklet			x	xx	xx	xx	xx	xx	xx	xx	January-December
Black-footed albatross			x	xx	xx	xx	xx	xx	xx	xx	January-December
Phalaropes			x	x	x	x	x	x	x	x	January-December
Other seabirds			x	x	x	x	x	x	x	x	January-December
MARINE MAMMALS:											
Harbor porpoise			xx	xx	xx	xx	xx	x	-	-	January-December
Gray sperm whale			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Risso's dolphin			x	x	xx	xx	xx	xx	xx	xx	January-December
Finless humpback dolphin			x	x	xx	xx	xx	xx	xx	xx	January-December
Northern right whale dolphin			-	-	x	x	x	xx	xx	xx	January-December
Common bottlenose dolphin			x	x	xx	xx	xx	xx	xx	xx	January-December
Long-beaked common dolphin			x	x	x	x	x	x	x	x	January-December
Bottlenose dolphin			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Killer whale			x	x	x	x	x	x	x	x	January-December
Minke whale			x	x	x	x	x	x	x	x	January-December
Gray whale			xx	xx	xx	xx	xx	xx	xx	xx	November-May
Fin whale		E	xx	xx	xx	xx	xx	xx	xx	xx	January-December
Humpback whale		E	x	x	x	x	x	x	xx	xx	January-December
Northern right whale		E	xx	xx	xx	xx	xx	xx	xx	xx	March-November
Sperm whale		E	-	-	-	-	-	-	x	x	May-July
Pygmy sperm whale		E	-	-	-	-	-	-	x	x	January-December
Dwarf sperm whale		E	-	-	-	-	-	-	x	x	January-December
Baird's beaked whale		E	-	-	-	-	-	-	x	x	May-July
Cuvier's beaked whale		E	-	-	-	-	-	-	x	x	January-December
True-finned pilot whale			x	x	x	x	x	x	x	x	January-December
Reference see other											
Stellar sea lion			xx	x	x	x	x	x	x	x	January-December
Northern fur seal		T	xx	xx	xx	xx	xx	xx	xx	xx	January-December
Northern elephant seal			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Northern seal			xx	xx	xx	xx	xx	xx	xx	xx	January-December
Guadalupe fur seal		T	x	x	x	x	x	x	x	x	January-December
Southern sea otter			x	xx	xx	xx	xx	x	-	-	January-December
KEY:											
x	rare or absent										
xx	secondary area of occurrence / present irregularly										
xxx	primary area of occurrence / present consistently										

Biological information shown on this map 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.