



**SOUTHERN CALIFORNIA ENVIRONMENTAL SENSITIVITY MAPPING PROJECT**

**Index of Shoreline Types**

- 1. Exposed rocky headlands and exposed seawalls.
- 2. Wave-cut platforms with or without thin sediment cover.
- 3. Fine grained sand beaches.
- 4. Exposed medium to coarse grained sand beaches.
- 5. Sheltered sand beaches.
- 5a. Mixed sand, gravel, cobble and boulder beaches.
- 6. Exposed gravel-boulder beaches and exposed riprap structures.
- 8. Sheltered gravel-boulder beaches and sheltered riprap structures.
- 9. Sheltered tidal flats.
- 10. Marshland.
- Manmade sheltered inner-harbor structures.

**Biological Features**

- Marine Mammals: Sea otter, Seals, Sea lions
- Birds: Wading birds, Diving birds, Shore birds, Waterfowl, Alcids, Gulls and terns
- Fishes: Anadromous salmon, Beach spawners, Invertebrates, Clams, Abalone, Reptiles, Turtles, Eel Grass

**KEY TO WILDLIFE MARKERS**

Color Coded - Type of Organism (e.g. pelican or murrelet)  
Symbol - Ecological Type (e.g. seabird)  
Number - Species (from regional lists)  
Red Border - Endangered Species

**Socioeconomic Features**

- Parks and beaches
- Marinas
- Mariculture operations
- Reserves, preserves, refuges and ecological areas.
- ASBS Areas of Special Biological Significance

**Spill Response Information**

- Boom placements
- Closures
- Skimmers
- Washover locations

Mapped, edited, and published by the Geological Survey  
Control by USGS, USC&GS, and Los Angeles City and County  
Planimetry by photogrammetric methods from aerial photographs taken 1963. Topography by planetable surveys 1923 and 1928. Revised 1964  
Selected hydrographic data compiled from USC&GS Chart 5144 (1964)  
This information is not intended for navigational purposes.  
Polyconic projection. 1927 North American datum  
10,000 foot grids based on California coordinate system, zones 5 and 7  
1000 meter Universal Transverse Mercator grid ticks, zone 11, shown in blue  
Red tint indicates areas in which only landmark buildings are shown  
A portion of the north half of this map lies within a subsidence area  
Vertical control based on latest available adjustment

SCALE 1:24,000  
CONTOUR INTERVAL 10 FEET  
DOTTED LINES REPRESENT 100 FT. CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
DEPTH CONTOUR INTERVAL 10 FT. (10 METER) IN 10 METER DEEP WATER  
WHERE SEAS ARE HEAVY, THE APPROXIMATE 10 M. DEEP WATER  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 4 FEET  
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80295, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION  
Heavy duty Light duty  
Medium duty Unimproved dirt  
Interstate Route  
QUADRANGLE LOCATION  
Revision shown in purple compiled from aerial photographs taken 1972. This information not field checked.  
Purple tint indicates extension of urban areas.