



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
  - Algae: Kelp, Eel Grass
- KEY TO WILDLIFE MARKERS**
- Color Code of Types of Organisms | Symbol - Ecological Type (if other than mammal)
- Range | Point Locality
- Number - Species (from regional lists)
- Red Border - Endangered Species
- Socioeconomic Features**
- Parks and beaches
  - 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 USCE

Topography by photogrammetric methods from aerial photographs taken 1946. Field checked 1948. Revised from aerial photographs taken 1967. Field checked 1968.

Selected hydrographic data compiled from USC&GS surveys (1934). This information is not intended for navigational purposes.

Polyconic projection. 1927 North American datum 10,000-foot grid based on California coordinate system, zone 6 1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue.

Dotted land lines established by private survey.

CONTOUR INTERVAL 20 FEET  
DOTTED LINES REPRESENT 10 FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES AND SOUNDINGS IN FEET. DATUM IS MEAN LOW WATER  
SOUNDING SYMBOLS REPRESENT THE APPROXIMATE LINE OF MEAN HIGH WATER  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 4 FEET

SCALE 1:24,000

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

- Heavy duty
- Medium duty
- Light duty
- Unimproved dirt
- Inhabitable Route

QUADRANGLE LOCATION

**ESI MAP NUMBER**  
**32**