



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, Kelp, Eel Grass.
- KEY TO WILDLIFE MARKERS**
- Color Coded - Types of Organisms (e.g., yellow = mammal)  
Symbol - Ecological Type (e.g., 100)  
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 and USC&GS  
Topography by photogrammetric methods from aerial photographs taken 1947. Field checked 1952.  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on California coordinate system, zone 5  
1000-metre Universal Transverse Mercator grid ticks.  
zone 11, shown in blue  
Data shown in purple (modified from original data)  
taken 1967. This information is for informational use only.

UTM GRID AND 1967 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 40 FEET  
DOTTED LINES REPRESENT 20 FOOT CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
SHORELINE (DASH) REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH 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 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



ROAD CLASSIFICATION

- Heavy-duty
- Medium-duty
- Light-duty
- Unimproved dirt
- U.S. Route

ESI MAP  
NUMBER

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