



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
 - Other: Kelp, Eel Grass
- KEY TO WILDLIFE MARKERS**
- Color Coded - Types of Organisms
 Symbol - Ecological Type
 Ring - Range
 Point - Locality
 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
- ROAD CLASSIFICATION**
- Heavy duty
 - Medium duty
 - Light duty
 - Unimproved dirt
 - Interstate Route

Mapped, edited, and published by the Geological Survey
 Control by USGS, USC&GS, Los Angeles County, and Orange County
 Planimetry by photogrammetric methods from aerial photographs taken 1963. Topography by planetable surveys 1964
 Selected hydrographic data compiled from USC&GS Chart 5148 (1965)
 This information is not intended for navigational purposes
 Polyconic projection. 1927 North American datum
 10,000-foot grids based on California coordinate system, zones 6, 7, and 5
 1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue
 Red tint indicates areas in which only land mark buildings are shown
 Dotted land lines established by private survey
 This map lies within a subsidence area
 Vertical control based on latest available adjustment

UTM GRID AND 1927 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 5 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 DEPTH CURVES AND SOUNDINGS IN FEET - DATUM IS MEAN LOWER LOW WATER
 SHORELINE SHOWS 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

QUADRANGLE LOCATION

ESI MAP NUMBER
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