



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 Codes = Types of Occupancy (e.g. yellow for marshland)
- Symbol = Ecological Type (e.g. grassland)
- 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 County  
Topography by photogrammetric methods from aerial photographs taken 1963 and by planimetric surveys 1964  
Selected hydrographic data compiled from USC&GS Chart 5147 (1963)  
This information is not intended for navigational purposes  
Polyconic projection. 1927 North American datum  
10,000-foot grids based on California coordinate system, zones 7 and 5  
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 east half of this map lies within a subsidence area  
Vertical control based on latest available adjustment

SCALE 1:4000  
CONTOUR INTERVAL 20 FEET  
DOTTED LINES REPRESENT 5 FOOT CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOWER LOW WATER  
SHOWN ON U.S. NAVY CHARTS. 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 Light duty  
Medium-duty Unimproved dirt  
Interstate Route

ESI MAP NUMBER  
**22**

Revisions shown in outline compiled from aerial photographs taken 1972. This information not field checked  
Purple tint indicates extension of urban areas