

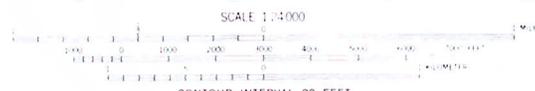
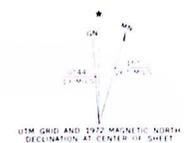


**Kelp Restoration Projects In Area**

**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 (or variety for mammals)  
 Range - Point  
 Locality -
- 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. Field checked 1964  
 Selected hydrographic data compiled from USC&GS Charts 5142 (1962) and 5148 (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 northeast quarter of this map lies within a subsidence area  
 Vertical control based on latest available adjustment



SCALE 1:24,000  
 CONTOUR INTERVAL 20 FEET  
 DOTTED LINES REPRESENT 10 FOOT CONTOURS  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 DEPTH CURVES AND SOUNDINGS IN FEET - DATUM IS MEAN LOWER LOW WATER  
 (SOUNDING CURVES AND SOUNDINGS REPRESENT THE AVERAGE STATE OF WORKING WATER)  
 THE MEAN RANGE OF TIDE IS APPROXIMATELY 4 FEET

THIS MAP COMPLETES 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

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

ROAD CLASSIFICATION  
 Heavy duty  
 Medium duty  
 Unimproved dirt  
 State Route

**ESI MAP NUMBER**  
**21**