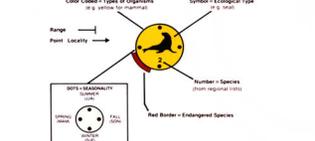




SOUTHERN CALIFORNIA ENVIRONMENTAL SENSITIVITY MAPPING PROJECT

- 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 Grass



- 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

ESI MAP NUMBER
12

Mapped, edited, and published by the Geological Survey.
Control by USGS and USNCGS.
Planimetry and drainage by photogrammetric methods from aerial photographs taken 1947. Topography by photostereoscopy, 1949.
Selected hydrographic data compiled from USCG charts.
This information is not intended for navigational purposes.
Polyconic projection, 1927 North American datum.
10,000-foot grid based on California coordinate system, zone 5.
1000-meter Universal Transverse Mercator grid lines, zone 11, shown in blue.
Red tint indicates areas in which only landmark buildings are shown.
Data shown in purple compiled from aerial photographs taken 1967. This information not field checked.
Purple tint indicates extension of urban areas.

QUADRANGLE INTERVAL: 15 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH MEASURED TO MEAN LOW WATER OR MEAN LOWER LOW WATER
UNLESS OTHERWISE INDICATED
THIS MAP COMPLEYS WITH NATIONAL MAP ACCURACY STANDARDS
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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION