



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 Circle = Type of Signature  
Symbol = Ecological Type (in purple or yellow)  
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 by the Army Map Service  
Edited and published by the Geological Survey  
Co.-trol by USC&GS and USBR  
Topography from aerial photographs by REF plotter methods  
Aerial photographs taken: 1947 Culture revision by USGS 1952  
Polyconic projection 1927 North American datum  
10,000-foot grid based on California coordinate system, zone 5  
1000-meter Universal Transverse Mercator grid ticks,  
zone 11, shown in blue  
Revisions shown in purple compiled by the Geological Survey from  
aerial photographs taken: 1967 This information is not field checked  
Purple tint indicates extension of urban areas.



ESI MAP NUMBER  
**8**

THIS MAP COMPLEIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80275 OR RESTON, VIRGINIA 22092  
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