

MAPPED, EDITED, AND PUBLISHED BY THE U. S. GEOLOGICAL SURVEY AND THE NATIONAL OCEAN SURVEY

Original topographic map prepared by the Defense Mapping Agency Topographic Center from 1:50,000 and 1:62,500-scale maps dated 1942-52. Field checked 1956. Planimetry revised by the U. S. Geological Survey from aerial photographs taken 1975. Map edited 1977

Bathymetry and shoreline compiled by the National Ocean Survey (NOS). Bathymetry was compiled from NOS Hydrographic Surveys (see data compiles with International Hydrographic Organization (IHO) Special Surveys. Shoreline (mean high water line) was compiled from NOS tide-coordinated aerial photographs

This information is not intended for navigational purposes

Offshore protection survey data, printed in red, compiled by the Bureau of Land Management. Heavy lines indicate limits of BLM Outer Continental Shelf Official Protection Diagrams. The protections on this map are not for Federal leasing purposes, for such purposes, refer to the OCS Official Protection Diagrams available from the Bureau of Land Management

100,000-foot grid based on California coordinate system, zone 1

**LEGEND**

Figures in red denote approximate distances in miles between stars

**POPULATED PLACES**

- Over 500,000
- 100,000 to 500,000
- 25,000 to 100,000
- 5,000 to 25,000
- 1,000 to 5,000
- Less than 1,000

**ROADS**

- Primary, all-weather, hard surface
- Secondary, all-weather, hard surface
- Light-duty, all-weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Interchange

**RAILROADS**

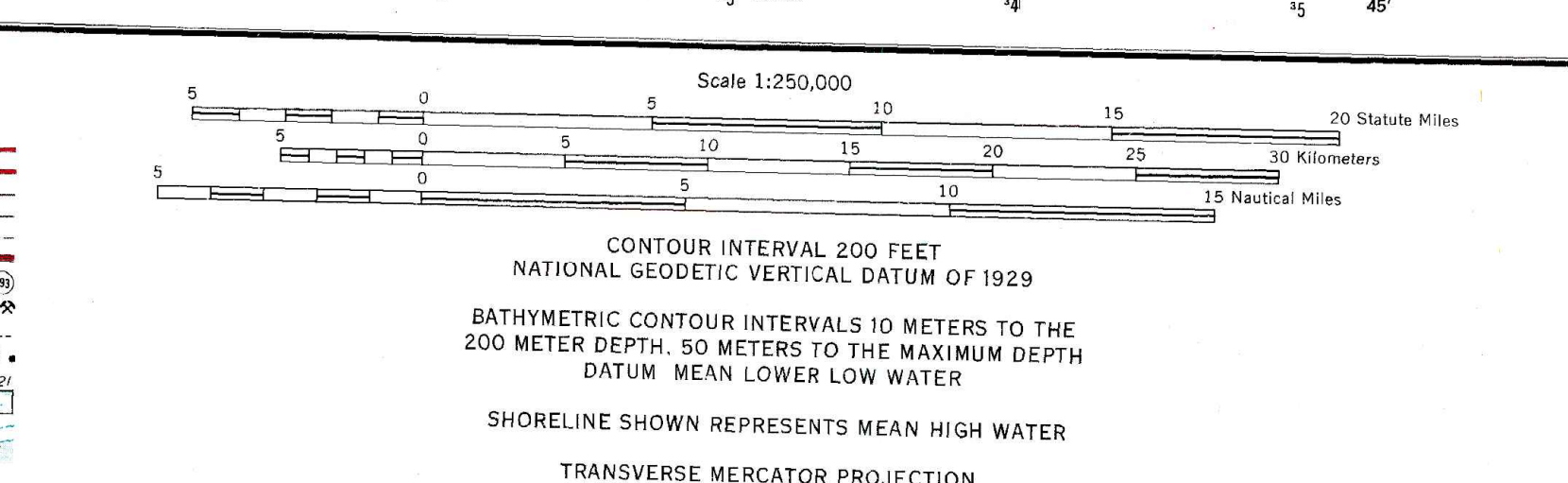
- Normal gauge
- Narrow gauge
- Single track double or multiple
- Route markers: Interstate, U.S., State

**BOUNDARIES**

- International
- State
- County
- Park or reservation

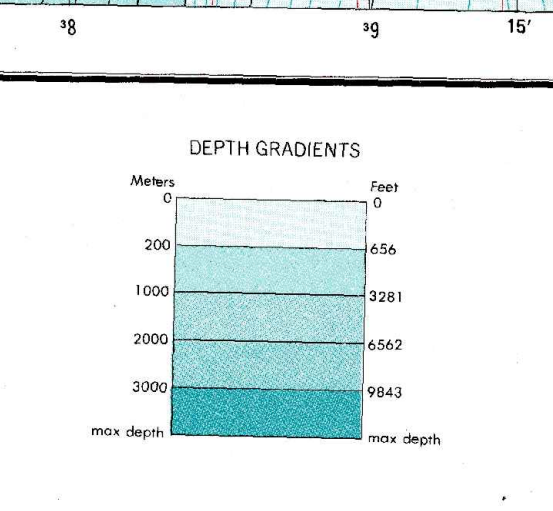
**Other Features:**

- Landplane airport
- Landing area
- Seaplane airport
- Seaplane anchorage
- Woods/brushwood
- Power line
- Landmark: School, Church, Other
- Spot elevation in feet
- Marsh or swamp
- Approximate shoreline
- Sounding datum line



**HYDROGRAPHIC SURVEY INFORMATION**

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4216	1922	1:40,000	25-45
H-4503b	1925	1:30,000	Transect
H-4648	1928	1:30,000	20-40
H-4802	1928	1:40,000	20-30
H-4860	1928	1:40,000	10-30
H-4862	1928	1:20,000	10-15
H-4865	1928	1:20,000	20-30
H-4872	1928	1:20,000	10
H-4873	1928	1:20,000	Transect
H-4874	1928	1:120,000	30-40
H-4876	1928	1:120,000	40-30
H-4877	1928	1:120,000	10-12
H-4866	1929	1:20,000	10-15
H-4966	1929	1:20,000	10-15
H-4967	1929	1:20,000	10-15
H-4997	1929	1:10,000	05-15



**GRID ZONE DESIGNATION: 10U**

100,000 M. SQUARE IDENTIFICATION

10 11 12 13 14 15 16 17 18 19 20

41 42 43 44 45 46 47 48 49 50

TO GIVE A STANDARD REFERENCE ON THIS SHEET TO NEAREST 100 METERS

**SAMPLE POINT: 10U114300**

1. Read letters identifying 100,000 meter square in which the point lies.

2. Locate first VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either in the top or bottom margin, or on the left side.

3. Estimate tenths from grid line to point.

4. Locate first HORIZONTAL grid line below point and read LARGE figure labeling the line either in the top or right margin, or on the left side.

5. Estimate tenths from grid line to point.

6. Estimate meters from grid line to point.

7. If spacing beyond 10' in any direction, prefix Grid Zone Designation, etc.

**DATE: 1978**