

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 1958. 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 index) supplemented by other hydrographic sources. Bathymetric survey data complies with International Hydrographic Organization (IHO) Special Publication 44 accuracy standards and/or standards used as of the date of the surveys. Shoreline (mean high water line) was compiled from NOS tide-coordinated aerial photographs.
 This information is not intended for navigational purposes.
 Offshore projection survey data, printed in red, compiled by the Bureau of Land Management. Heavy lines indicate limits of BLM Outer Continental Shelf Official Protraction Diagrams. The protraction on this map are not for Federal leasing purposes; for such purposes, refer to the OCS Official Protraction Diagrams available from the Bureau of Land Management.
 100,000-foot grid based on California coordinate system, zone 1.
 Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Control Diagram.

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
 Sun Valley Route markers: Interstate, U.S., State

RAILROADS
 Single track Double or Multiple
 Normal gauge
 Narrow gauge
 Landplane airport
 Seaplane airport
 Seaplane anchorage
 Sounding datum line

BOUNDARIES
 International
 State
 County
 Park or reservation

Other symbols:
 Power line
 Landmark: School, Church, Other
 Spot elevation in feet
 Marsh or swamp
 Approximate shoreline

Scale 1:250,000
 0 5 10 15 20 25 30 Statute Miles
 0 5 10 15 20 25 30 Kilometers
 0 5 10 15 Nautical Miles

CONTOUR INTERVAL 200 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 BATHYMETRIC CONTOUR INTERVALS 10 METERS TO THE 200 METER DEPTH, 50 METERS TO THE MAXIMUM DEPTH
 DATUM MEAN LOWER LOW WATER
 SHORELINE SHOWN REPRESENTS MEAN HIGH WATER
 TRANSVERSE MERCATOR PROJECTION
 BLACK NUMBERED LINES INDICATE THE 10,000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 10
 1977 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 11° 14' 00" WEST TO 11° 00" WEST FOR THE CENTER OF THE WEST EDGE TO 10° 15' 00" WEST FOR THE CENTER OF THE EAST EDGE

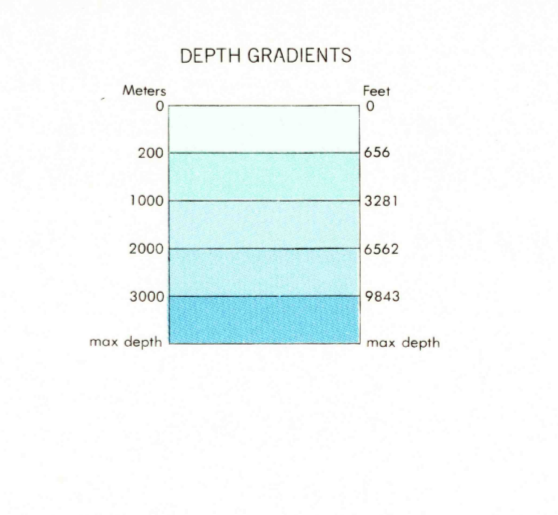
SECTIONIZED TOWNSHIP

6	3	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

TOWNSHIP OR RANGE LINE
 LAND GRANT BOUNDARY

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4216	1922	1:40,000	25-45
H-4303b	1925	1:300,000	Traverse
H-4848	1928	1:100,000	20-40
H-4852	1928	1:400,000	20-30
H-4860	1928	1:400,000	10-30
H-4862	1928	1:200,000	05-15
H-4865	1928	1:100,000	05-10
H-4872	1928	1:200,000	10
H-4873	1928	1:240,000	Traverse
H-4874	1928	1:120,000	50-4.0
H-4875	1928	1:120,000	50-3.0
H-4877	1928	1:100,000	03-12
H-4965	1929	1:200,000	10-15
H-4966	1929	1:200,000	10-15
H-4967	1929	1:200,000	10-15
H-4997	1929	1:100,000	05-15
H-4998	1929	1:200,000	15-30
H-6429	1938	1:120,000	1.5-9.0
H-6606	1938-40	1:400,000	20-40
H-6622	1940	1:240,000	Traverse



GRID ZONE DESIGNATION
 100,000 M. SQUARE IDENTIFICATION

TO GIVE A STANDARD REFERENCE OR TO BE USED TO MEASURE 100 METERS

SAMPLE POINT: METER
 1. Read letters identifying 100,000 meter square in which the point lies.
 2. Locate the first METRIC grid line to LEFT of the point and read LARGE figure labeling the line either on the left or bottom margin, or on the line itself.
 3. Estimate within this grid line to point.
 4. Locate first HORIZONTAL grid line BELOW the point and read LARGE figure labeling the line either on the left or bottom margin, or on the line itself.
 5. Estimate within this grid line to point.
 6. Add the two estimates to give the point.
 7. If measuring beyond 10° in any direction, apply Grid Zone Designation as well.

Example: 150000
 1000000

NATIONAL OCEAN SURVEY HYDROGRAPHIC SURVEY INDEX

INDEX TO ADJOINING SHEETS

CRESCENT CITY, CALIFORNIA; OREGON
 (REFORMATTED FROM NORTH HALF OF EUREKA)

USGS
 Historical File
 Topographic Division

1958
 REVISED 1977
 TOPOGRAPHIC-BATHYMETRIC

Photographic copies of the above and prior surveys may be obtained, at the cost of reproduction, by addressing the Director (C-353), National Ocean Survey, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852.