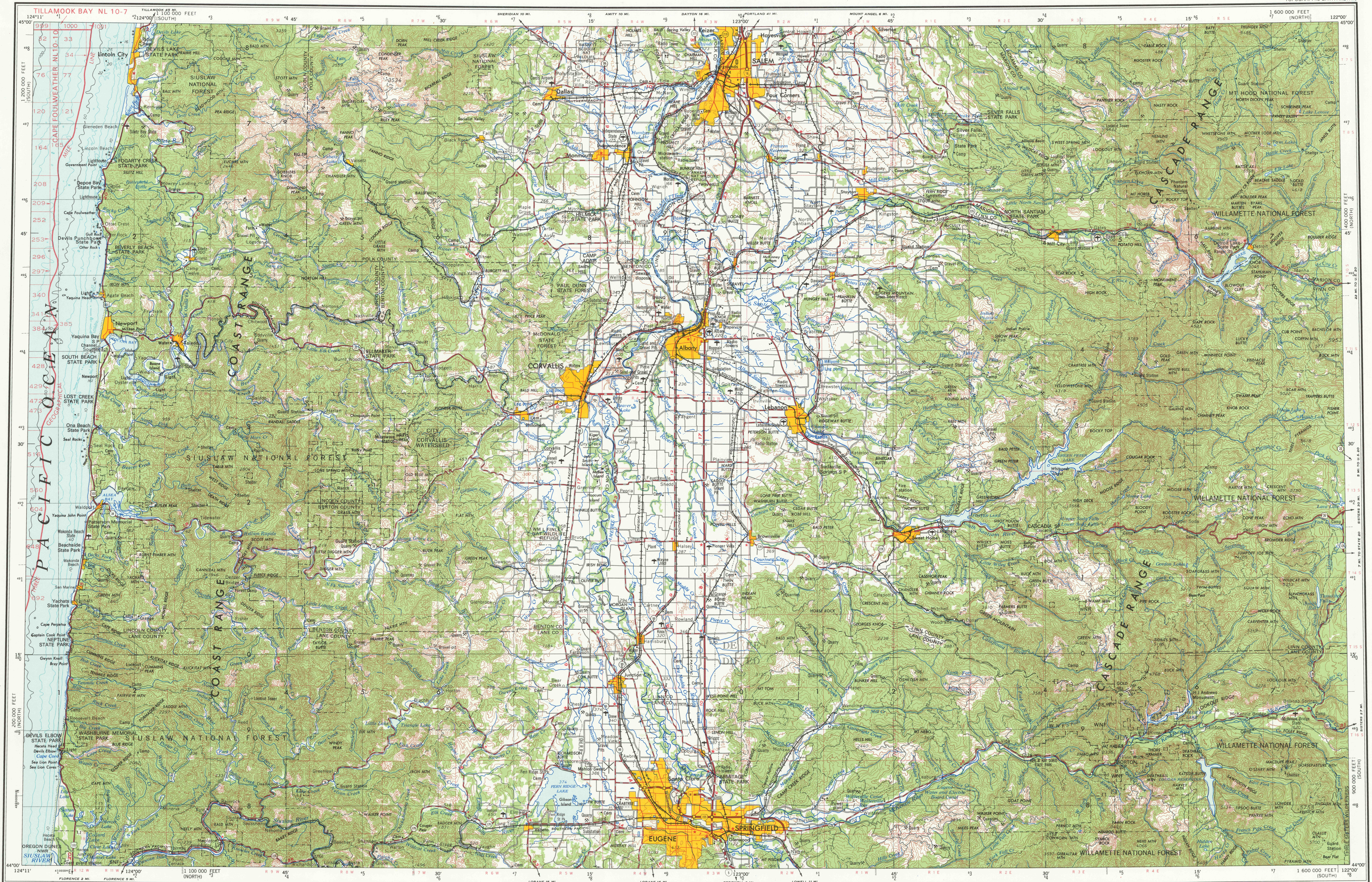




MAPPED, EDITED, AND PUBLISHED BY THE U.S. GEOLOGICAL SURVEY AND THE NATIONAL OCEAN SURVEY
Original topographic map prepared by the Defense Mapping Agency Topographic Center from 1:48,000, 1:50,000, 1:62,500-scale maps dated 1909-1957, and from aerial photographs taken 1955. Field checked 1960. Planimetry 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 Survey (HIS) Special Publication 44 accuracy standards and/or standards used as of the date of the survey. Shoreline (mean high water line) was compiled from NOS tide-coordinated aerial photographs.
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 protection 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 grids based on Oregon coordinate system, north and south zones.
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
Sun Valley Route markers: Interstate, U.S., State

RAILROADS
Normal gauge
Narrow gauge
International
State
County
Park or reservation

LANDPLANE AIRPORT
Landing area
Seaplane airport
Orchard
Woods brushwood

LANDMARK: SCHOOL; CHURCH; OTHER
Spot elevation in feet
Marsh or swamp
Approximate shoreline
Sounding datum line

SECTIONIZED TOWNSHIP

6	5	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

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

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS
NATIONAL GEODETIC VERTICAL DATUM 1929

BATHYMETRIC CONTOUR INTERVAL TO METERS
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
MAGNETIC DECLINATION FOR 1977 IS 20° 10' 130 MILS; EASTERLY OVER THE ENTIRE AREA.

FOR SALE BY THE U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092, DENVER, COLORADO 80225, OR NATIONAL OCEAN SURVEY, ROCKVILLE, MARYLAND 20852

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4747	1927	1:20,000	10-30
H-4748	1927	1:20,000	10-30
H-4749	1927	1:20,000	10-30
H-4750	1927	1:20,000	10-30
H-4751	1927	1:20,000	10-30
H-4752	1927	1:20,000	10-30
H-4753	1927	1:20,000	10-30
H-4754	1927	1:20,000	10-30
H-4755	1927	1:20,000	10-30
H-4756	1927	1:20,000	10-30
H-4757	1927	1:20,000	10-30
H-4758	1927	1:20,000	10-30
H-4759	1927	1:20,000	10-30
H-4760	1927	1:20,000	10-30
H-4761	1927	1:20,000	10-30
H-4762	1927	1:20,000	10-30
H-4763	1927	1:20,000	10-30
H-4764	1927	1:20,000	10-30
H-4765	1927	1:20,000	10-30
H-4766	1927	1:20,000	10-30
H-4767	1927	1:20,000	10-30
H-4768	1927	1:20,000	10-30
H-4769	1927	1:20,000	10-30
H-4770	1927	1:20,000	10-30
H-4771	1927	1:20,000	10-30
H-4772	1927	1:20,000	10-30
H-4773	1927	1:20,000	10-30
H-4774	1927	1:20,000	10-30
H-4775	1927	1:20,000	10-30
H-4776	1927	1:20,000	10-30
H-4777	1927	1:20,000	10-30
H-4778	1927	1:20,000	10-30
H-4779	1927	1:20,000	10-30
H-4780	1927	1:20,000	10-30
H-4781	1927	1:20,000	10-30
H-4782	1927	1:20,000	10-30
H-4783	1927	1:20,000	10-30
H-4784	1927	1:20,000	10-30
H-4785	1927	1:20,000	10-30
H-4786	1927	1:20,000	10-30
H-4787	1927	1:20,000	10-30
H-4788	1927	1:20,000	10-30
H-4789	1927	1:20,000	10-30
H-4790	1927	1:20,000	10-30
H-4791	1927	1:20,000	10-30
H-4792	1927	1:20,000	10-30
H-4793	1927	1:20,000	10-30
H-4794	1927	1:20,000	10-30
H-4795	1927	1:20,000	10-30
H-4796	1927	1:20,000	10-30
H-4797	1927	1:20,000	10-30
H-4798	1927	1:20,000	10-30
H-4799	1927	1:20,000	10-30
H-4800	1927	1:20,000	10-30

NATIONAL OCEAN SURVEY HYDROGRAPHIC INDEX

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

GRID ZONE DESIGNATION: 10T

100,000 M. SQUARE IDENTIFICATION

DE EE

DD ED

0

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

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

2. Locate the vertical line to the left of the point and read LARGE figure labeling the line either in the top or bottom margin.

3. Estimate tenths from grid line to point.

4. Locate the horizontal line to the right of the point and read LARGE figure labeling the line either in the top or bottom margin.

5. Estimate tenths from grid line to point.

6. Combine the two figures to give the final coordinates. Use ONLY the LARGE figure in the grid number; example: 4880000

IF REPORTING BEYOND 10' IN ANY DIMENSION, prefix Grid Zone Designation, etc.

DEPT. GRADIENT

Meters 0 10 20 30 40 50 60 70 80 90 100

Feet 0 30 60 90 120 150 180 210 240 270 300

max depth

INDEX TO ADJOINING SHEETS

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

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

2. Locate the vertical line to the left of the point and read LARGE figure labeling the line either in the top or bottom margin.

3. Estimate tenths from grid line to point.

4. Locate the horizontal line to the right of the point and read LARGE figure labeling the line either in the top or bottom margin.

5. Estimate tenths from grid line to point.

6. Combine the two figures to give the final coordinates. Use ONLY the LARGE figure in the grid number; example: 4880000

IF REPORTING BEYOND 10' IN ANY DIMENSION, prefix Grid Zone Designation, etc.

DEPT. GRADIENT

Meters 0 10 20 30 40 50 60 70 80 90 100

Feet 0 30 60 90 120 150 180 210 240 270 300

max depth