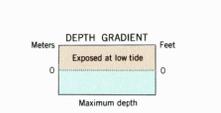


Feet Meters

1	3048
2	6096
3	9144
4	12192
5	15240
6	18288
7	21336
8	24384
9	27432
10	30480

To convert feet to meters multiply by 0.3048  
To convert meters to feet multiply by 3.2808



Mapped by the Defense Mapping Agency and the National Ocean Service  
Published for civil use by the Geological Survey  
Control by NOS/NOAA and USCE  
Topography from aerial photographs by multiplex methods  
Aerial photographs taken 1943. Field checked 1949  
Bathymetry compiled by the National Ocean Service from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes  
Mean low water (dotted) line and mean high water (heavy solid) line compiled by NOS from tide-coordinated aerial photographs  
Apparent shoreline (outer edge of vegetation) shown by light solid line  
Polyconic projection. 1927 North American Datum  
10,000-foot grid based on Oregon coordinate system north zone  
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue  
To place on the predicted North American Datum 1983 move the projection lines 24 meters north and 96 meters east as shown by dashed corner ticks  
There may be private inholdings within the boundaries of National or State reservations shown on this map  
Dashed land lines indicate approximate locations  
Revisions shown in purple compiled by the Geological Survey from aerial photographs taken 1981 and other sources  
This information not field checked. Map edited 1984

NATIONAL OCEAN SERVICE HYDROGRAPHIC SURVEY INDEX

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-8419	1950	1:20,000	02-15
H-8420	1958	1:10,000	02-12
H-8418	1958	1:10,000	01-11
H-8419	1958	1:10,000	01-11
H-8420	1958	1:10,000	01-12
H-8436	1958	1:5,000	01-05

HYDROGRAPHIC SURVEY INFORMATION  
NOS CHART 18521 MARCH 27, 1982 1:40,000

SCALE 1:24,000  
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET  
0 1 2 3 4 5 6 7 8 9 10 KILOMETER

CONTOUR INTERVAL 50 FEET  
DASHED LINES REPRESENT 25 FOOT CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY 1 METER CONTOURS - DATUM IS MEAN LOWER LOW WATER  
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.4 METERS

BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44 ACCURACY STANDARDS AND/OR STANDARDS USED AT THE DATE OF THE SURVEY  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION  
Primary highway, hard surface — Light-duty road, hard or improved surface  
Secondary highway, hard surface — Unimproved road  
Interstate Route — U. S. Route — State Route

CATHLAMET BAY, OREG.  
NW 1/4 SVENSEN 15' QUADRANGLE  
46123-B6-TB-024  
1949  
PHOTOREVISED 1984  
BATHYMETRY ADDED 1984  
DMA 1276 II NW - SERIES V892

UTM GRID AND 1984 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET  
0°30' 9 MILS  
20 1/2° 364 MILS