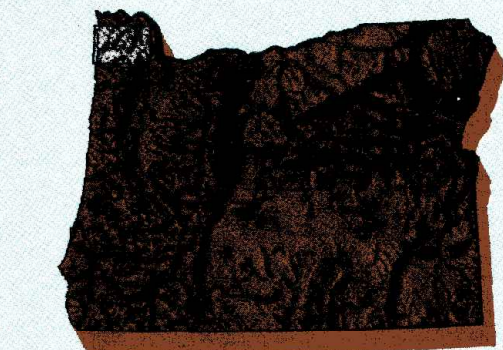


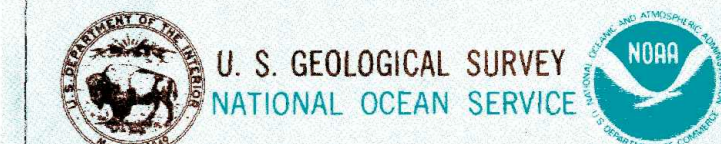
# Nehalem River OREGON

1:100 000-scale metric topographic-bathymetric map



30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names
- Bathymetric contours in meters



1979

Produced by the United States Geological Survey and the National Ocean Service. Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1949-1979. Bathymetry derived from aerial photographs taken 1977 and other source data. Revised information not field checked. Map edited 1979. Bathymetry compiled by the National Ocean Service from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes. Mean lower low water (mllw) line and mean high water (mhw) line compiled by NOS from tide-coordinated aerial photographs. Apparent shoreline (outer edge of vegetation) shown by light solid line. Projection and 10 000-meter grid, zone 10, Universal Transverse Mercator 25 000-meter grid based on Oregon coordinate system, north zone 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 24 meters north and 76 meters east. There may be private inholdings within the boundaries of National or State reservations shown on this map.

CONTOUR INTERVAL 50 METERS  
 SUPPLEMENTARY CONTOUR INTERVAL 25 METERS  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 BATHYMETRIC CONTOUR INTERVAL 10 METERS WITH SUPPLEMENTARY 5 METER CONTOURS SHOWN IN METERS LOWER LOW WATER  
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BATHYMETRIC SURVEY DATA COMPLIES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION NO. ACCURACY STANDARDS AND/OR STANDARDS USED AS OF THE DATE OF THE SURVEYS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	CH	SW	1	2	3
1	3.2808			4	5	
2	6.5617			6	7	
3	9.8425			7	8	
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5275					
10	32.8084					

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

UTM grid convergence (60' and 180' magnetic at center of map  
 Diagram is approximate

1 Buxaco  
 2 Astoria  
 3 Vancouver  
 4 Yonahli River  
 5 Oregon City

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

### Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light city road, principal street, hard or improved surface
- Other road or street, soil
- Route marker: Interstate, U. S., State
- Railroad: standard gage; narrow gage
- Bridge: overpass; underpass
- Tunnel, road, railroad
- Built up area, locality, elevation
- Airport, landing field, landing strip
- National boundary
- State boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U. S. public lands survey: range, township, section
- Range, township, section line: protected
- Power transmission line, pipeline
- Dam, dam with lock
- Cemetery, building
- Windmill, water well, spring
- Mine shaft; hill or cave; mine, quarry, gravel pit
- Campground, picnic area; U. S. location monument
- Runes, cliff awnings
- Distorted surface: strip mine, lava, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake, perennial intermittent
- Rapids, ledge and small; ledge, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Other: vineyard

A pamphlet describing topographic maps is available on request

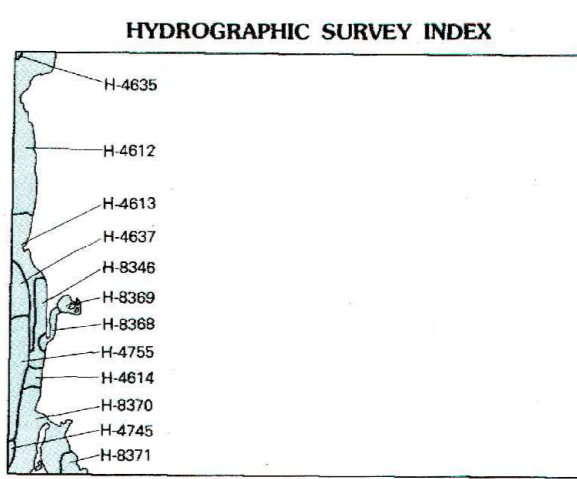


SCALE 1:100 000  
 1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND  
 CONTOUR INTERVAL 50 METERS  
 SUPPLEMENTARY CONTOUR INTERVAL 25 METERS

NEHALEM RIVER, OREGON  
 45123-E1-TB-100  
 1979  
 BATHYMETRY ADDED 1989

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (KILOMETERS)
H-4612	1928	1:25,000	06-25
H-4613	1928	1:25,000	06-25
H-4614	1928	1:25,000	06-25
H-4615	1928	1:25,000	06-25
H-4617	1928	1:25,000	06-25
H-4618	1927	1:25,000	06-25
H-4619	1927	1:25,000	06-25
H-4620	1927	1:25,000	06-25
H-4621	1927	1:25,000	06-25
H-4622	1927	1:25,000	06-25
H-4623	1927	1:25,000	06-25
H-4624	1927	1:25,000	06-25
H-4625	1927	1:25,000	06-25
H-4626	1927	1:25,000	06-25
H-4627	1927	1:25,000	06-25
H-4628	1927	1:25,000	06-25
H-4629	1927	1:25,000	06-25
H-4630	1927	1:25,000	06-25
H-4631	1927	1:25,000	06-25



Photographic copies of the above and prior surveys may be obtained at the cost of reproduction by addressing the Director, NCEC-241, National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852