

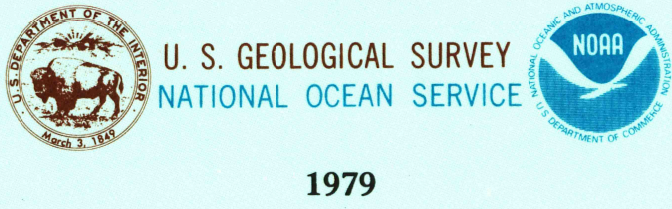
Nehalem River OREGON

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 compiled from aerial photographs taken 1975 and other source data. Revised information not field checked. Map dated 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 (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. Projection used 10 000-meter grid, zone 10. Universal Transverse Mercator 25 000-foot grid based on Oregon coordinate system, north zone 1972 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 24 meters north and 96 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 GEODESIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER
 BATHYMETRIC CONTOUR INTERVAL 10 METERS WITH SUPPLEMENTARY 2 METER CONTOURS-DATUM IS MEAN LOWER LOW WATER
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BATHYMETRIC SURVEY DATA COMPILES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION NO. 1 ACCURACY STANDARDS AND STANDARDS USED AS OF THE DATE OF THE SURVEY

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	GN	Mg	1	2	3
1	3.2808		19.5°	4	5	
2	6.5617			6	7	8
3	9.8425					
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5276					
10	32.8084					

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

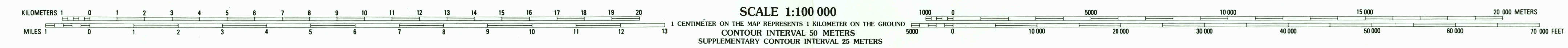
UTM grid convergence (GN and true north) at center of map. Diagram is approximate.

1 Ilwaco
 2 Astoria
 3 Mount St. Helens
 4 Vancouver
 5 Yaquina River
 6 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

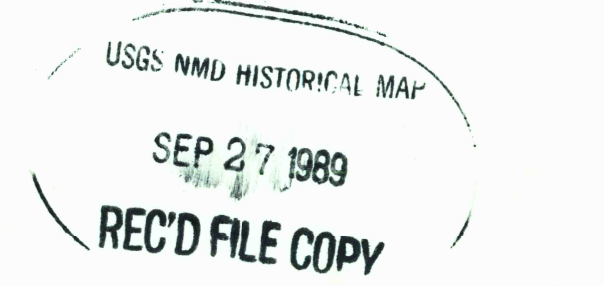
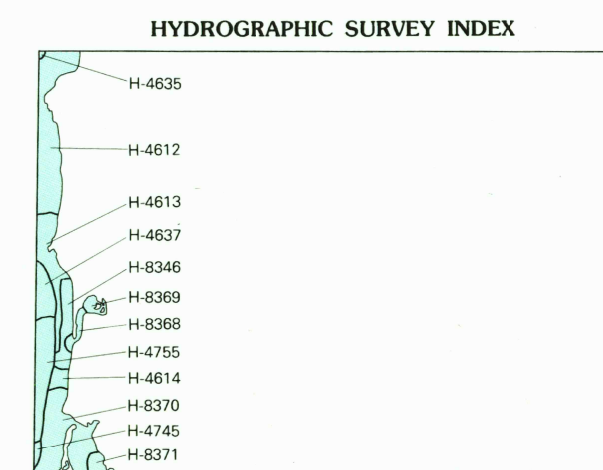
- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street; trail
- Route marker: Interstate, U. S.; State
- Railroad: standard gage; narrow gage
- Bridge; overpass; underpass
- Tunnel: road, railroad
- Built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



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

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-4612	1926	1:20,000	05.25
H-4613	1926	1:20,000	05.30
H-4614	1926	1:20,000	04.15
H-4625	1926	1:20,000	02.50
H-4742	1927	1:20,000	10.15
H-4749	1927	1:20,000	29.40
H-4836	1958	1:10,000	02.11
H-4838	1959	1:10,000	01.00
H-4839	1957	1:10,000	03.14
H-4871	1957	1:10,000	02.14
H-4877	1957	1:10,000	02.14



Photographic copies of the above and prior surveys may be obtained, at the cost of reproduction, by addressing the Director, NCCO-243, National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852