48122-A1-TB-100

Port Townsend

WASHINGTON

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 features
- Geographic names
- Bathymetric contours in meters

U. S. GEOLOGICAL SURVEY
NATIONAL OCEAN SERVICE

1993

Produced by the United States Geological Survey and the National Ocean Service

Compiled from USGS 1:24 000-scale topographic maps dated 1968-1985. Planimetry revised from aerial photographs taken 1981-1988 and other source data. Revised information not field checked
Map edited 1993

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
1927 North American Datum (NAD 27). Projection and
10 000-meter grid : Universal Transverse Mercator, zone 10
25 000-foot ticks: Washington coordinate system, north zone
The difference between (NAD 27) and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875

There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 50 METERS
SUPPLEMENTARY CONTOUR INTERVAL 25 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER
BATHYMETRIC CONTOUR INTERVALS: 10 METERS WITH 2 METER SUPPLEMENTARY CONTOURS. DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

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

CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
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

DECLINATION DIAGRAM

UTM grid convergence (GN) and 1993 magnetic declination (MN) at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4		5
6	7	8

1 Roche Harbor
2 Bellingham
3 Mount Baker
4 Port Angeles
5 Sauk River
6 Mount Olympus
7 Seattle
8 Skykomish River

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
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; protracted
Power transmission line; pipeline
Dam; dam with lock
Cemetery; building
Windmill; water well; spring
Mine shaft; adit or cave; mine, quarry; gravel pit
Campground; picnic area; U. S. location monument
Ruins; cliff dwelling
Distorted surface: strip mine, lava; sand
Contours: index; intermediate; supplementary
Bathymetric contours: index; intermediate
Stream, lake: perennial; intermittent
Rapids, large and small; falls, large and small
Area to be submerged; marsh, swamp
Land subject to controlled inundation; woodland
Scrub; mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request

INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA—1993

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 50 METERS
SUPPLEMENTARY CONTOUR INTERVAL 25 METERS

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
MILES 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13
1000 0 5000 10 000 15 000 20 000 METERS
5000 0 10 000 20 000 30 000 40 000 50 000 60 000 70 000 FEET

PORT TOWNSEND, WASHINGTON
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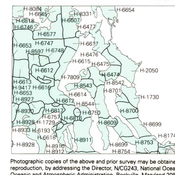
HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT MILES)
H-1729	1885-86	1:20,000	.04-0.55
H-1730	1886	1:20,000	.03-0.50
H-2050	1890	1:20,000	.02-0.38
H-6193	1937	1:10,000	.03-0.17
H-6414	1939	1:10,000	.03-0.10
H-6475	1939	1:10,000	.03-0.10
H-6476	1939	1:10,000	.03-0.07
H-6477	1938	1:5,000	.02-0.06
H-6577	1930-40	1:10,000	.01-0.08
H-6607	1940	1:10,000	.25-0.50
H-6612	1941	1:20,000	.25-0.50
H-6613	1940-41	1:20,000	.01-0.08
H-6614	1941	1:10,000	.03-0.09
H-6615	1940-41	1:10,000	.01-0.08
H-6616	1941	1:10,000	.25-0.50
H-6617	1941	1:10,000	.25-0.50
H-6618	1940	1:5,000	.01-0.10
H-6645	1939	1:10,000	.25-0.50
H-6653	1953	1:40,000	.10-0.30
H-6654	1940	1:10,000	.02-0.12
H-6746	1941-43	1:10,000	.01-0.10
H-6747	1941	1:20,000	.04-0.23
H-6748	1941	1:20,000	.04-0.23
H-6757	1942	1:5,000	.01-0.07
H-6816	1942-43	1:10,000	.01-0.09
H-6817	1942-43	1:10,000	.01-0.08
H-6750	1941	1:10,000	.02-0.06
H-6818	1942	1:20,000	.01-0.20
H-7809	1951	1:10,000	.02-0.05
H-8084	1953-55	1:10,000	.03-0.13
H-8173	1954	1:5,000	.01-0.04
H-8174	1954	1:10,000	.02-0.43
H-8331	1955	1:10,000	.06-0.27
H-8542	1960-62	1:10,000	.03-0.10
H-8543	1960	1:10,000	.02-0.10
H-8544	1960	1:10,000	.02-0.12
H-8597	1961	1:20,000	.05-0.08
H-8609	1961	1:10,000	.02-0.10
H-0699	1961	1:10,000	.02-0.12
H-8700	1962	1:10,000	.02-0.12
H-8701	1962	1:10,000	.02-0.23
H-8753	1963	1:10,000	.02-0.07
H-8754	1966	1:10,000	.02-0.08
H-8910	1966	1:10,000	.01-0.08
H-8911	1966	1:10,000	.02-0.14
H-8912	1966	1:10,000	.02-.014
H-8927	1967	1:10,000	.05-0.10
H-8928	1967	1:10,000	.01-0.30
H-8930	1967	1:10,000	.02-0.07
H-8933	1967	1:10,000	.02-0.07
H-9417	1974	1:10,000	.05-0.11

HYDROGRAPHIC SURVEY INDEX



Photographic copies of the above and prior survey may be obtained, at the cost of reproduction, by addressing the Director, NCG243, National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852

Exposed at low tide
DEPTH GRADIENT
Meters 0 — 0 Feet
100 — 328.0
Maximum depth