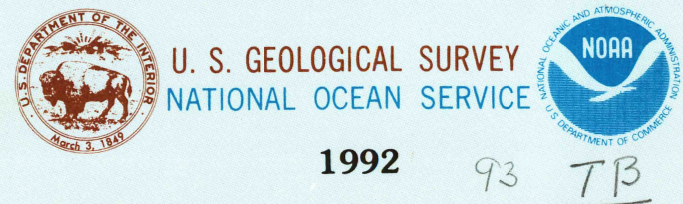




30 X 60 MINUTE QUADRANGLE  
SHOWING

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




Produced by the United States Geological Survey and the National Ocean Service  
Compiled from USGS 1:24 000 and 1:25 000-scale topographic maps dated 1953-1983. Planimetry revised from aerial photographs taken 1988 and other source data. Revised information not field checked. Map edited 1992.

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 NCS 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 and south zones. 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 subdivisions within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 20 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATIONS SHOWN TO NEAREST METER  
BATHYMETRIC CONTOUR INTERVALS: 10 METERS TO 200 METER DEPTH  
SUPPLEMENTED BY 2 METERS DEPTH. THEREAFTER 5 METERS TO MAXIMUM DEPTH. SUPPLEMENTED BY 10 METER INTERVALS. DATUM IS MEAN LOWER LOW WATER. THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE.

BASE MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS  
BATHYMETRIC SURVEY COMPLES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION 44  
ACCURACY STANDARDS AND OR STANDARDS USED AT THE DATE OF THE SURVEY

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS		
Meters	Feet		1	2	3
1	3.2808		1	2	3
2	6.5617		4	5	6
3	9.8425		7	8	9
4	13.1234		10	11	12
5	16.4042		13	14	15
6	19.6850		16	17	18
7	22.9659		19	20	21
8	26.2467		22	23	24
9	29.5275		25	26	27
10	32.8084		28	29	30
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1983 magnetic declination (MD) at center of map. Diagram is approximate.	1 Port Angeles 2 Port Townsend 3 Skunk River 4 Mount Olympus 5 Skykomish River 6 Shelton 7 Tacoma 8 Snoqualmie Pass		
To convert feet to meters multiply by 0.3048					

ISBN 0-107-57640-5

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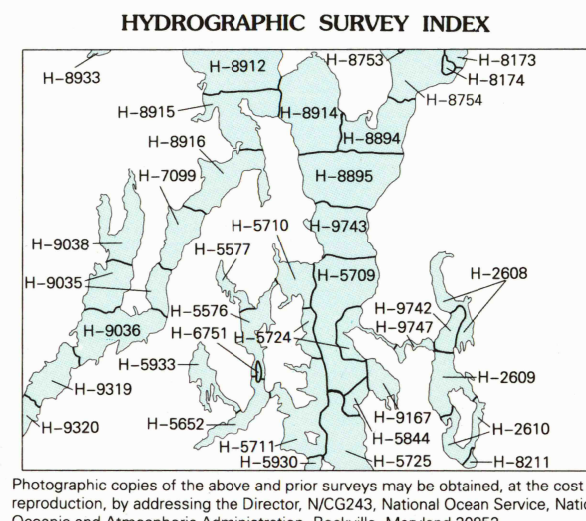
FOR SALE BY U.S. GEOLOGICAL SURVEY,  
P.O. BOX 23086, DENVER, COLORADO, 80225

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
- Road marker: Interstate, U. S., State
- Railroad: standard gage, narrow gage
- Bridge, overpass, underpass
- Tunnel: road, railroad
- Built up area: quality, elevation
- Airport, landing field, landing strip
- National 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, adit or cave; mine, quarry, gravel pit
- Campground, picnic area, U. S. location monument
- Run, cliff dwelling
- Disturbed surface: strip mine, bar, sand
- Contours: index, intermediate, supplementary
- Bathymetric contour: index, intermediate
- Stream, lake: perennial, intermittent
- Rapids, large and small; falls, large and small
- Area to be submerged, marsh, swamp
- Land subject to controlled invasion: woodland
- Scrub, mangrove
- Orchard, vineyard

A pamphlet describing topographic maps is available on request

SEATTLE, WASHINGTON  
47122-E1-TB-100  
1992



HYDROGRAPHIC SURVEY INFORMATION					
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)	SURVEY NUMBER	SURVEY DATE
H-2608	1902	1:10,000	02-14	H-8211	1956
H-2609	1902	1:10,000	06-25	H-8212	1956
H-2610	1902	1:10,000	04-23	H-8213	1956
H-5276	1934	1:10,000	01-07	H-8214	1956
H-5277	1934	1:10,000	01-04	H-8215	1956
H-5278	1934	1:10,000	01-06	H-8216	1956
H-5279	1934-35	1:20,000	05-05	H-8217	1956
H-5280	1934	1:10,000	02-12	H-8218	1956
H-5281	1934	1:10,000	02-06	H-8219	1956
H-5282	1934	1:10,000	02-06	H-8220	1956
H-5283	1934	1:10,000	02-06	H-8221	1956
H-5284	1934	1:10,000	02-06	H-8222	1956
H-5285	1934	1:10,000	02-06	H-8223	1956
H-5286	1934	1:10,000	02-06	H-8224	1956
H-5287	1934	1:10,000	02-06	H-8225	1956
H-5288	1934	1:10,000	02-06	H-8226	1956
H-5289	1934	1:10,000	02-06	H-8227	1956
H-5290	1934	1:10,000	02-06	H-8228	1956
H-5291	1934	1:10,000	02-06	H-8229	1956
H-5292	1934	1:10,000	02-06	H-8230	1956
H-5293	1934	1:10,000	02-06	H-8231	1956
H-5294	1934	1:10,000	02-06	H-8232	1956
H-5295	1934	1:10,000	02-06	H-8233	1956
H-5296	1934-47	1:10,000	01-15	H-8234	1956
H-5297	1934	1:10,000	02-13	H-8235	1956
H-5298	1934	1:10,000	02-13	H-8236	1956
H-5299	1934	1:10,000	02-13	H-8237	1956
H-5300	1934	1:10,000	02-13	H-8238	1956
H-5301	1934	1:10,000	02-13	H-8239	1956
H-5302	1934	1:10,000	02-13	H-8240	1956
H-5303	1934	1:10,000	02-13	H-8241	1956
H-5304	1934	1:10,000	02-13	H-8242	1956
H-5305	1934	1:10,000	02-13	H-8243	1956
H-5306	1934	1:10,000	02-13	H-8244	1956
H-5307	1934	1:10,000	02-13	H-8245	1956
H-5308	1934	1:10,000	02-13	H-8246	1956
H-5309	1934	1:10,000	02-13	H-8247	1956
H-5310	1934	1:10,000	02-13	H-8248	1956
H-5311	1934	1:10,000	02-13	H-8249	1956
H-5312	1934	1:10,000	02-13	H-8250	1956
H-5313	1934	1:10,000	02-13	H-8251	1956
H-5314	1934	1:10,000	02-13	H-8252	1956
H-5315	1934	1:10,000	02-13	H-8253	1956
H-5316	1934	1:10,000	02-13	H-8254	1956
H-5317	1934	1:10,000	02-13	H-8255	1956
H-5318	1934	1:10,000	02-13	H-8256	1956
H-5319	1934	1:10,000	02-13	H-8257	1956
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H-5321	1934	1:10,000	02-13	H-8259	1956
H-5322	1934	1:10,000	02-13	H-8260	1956
H-5323	1934	1:10,000	02-13	H-8261	1956
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H-5331	1934	1:10,000	02-13	H-8269	1956
H-5332	1934	1:10,000	02-13	H-8270	1956
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H-5335	1934	1:10,000	02-13	H-8273	1956
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H-5338	1934	1:10,000	02-13	H-8276	1956
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H-5343	1934	1:10,000	02-13	H-8281	1956
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H-5361	1934	1:10,000	02-13	H-8299	1956
H-5362	1934	1:10,000	02-13	H-8300	1956
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H-5365	1934	1:10,000	02-13	H-8303	1956
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H-5380	1934	1:10,000	02-13	H-8318	1956
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