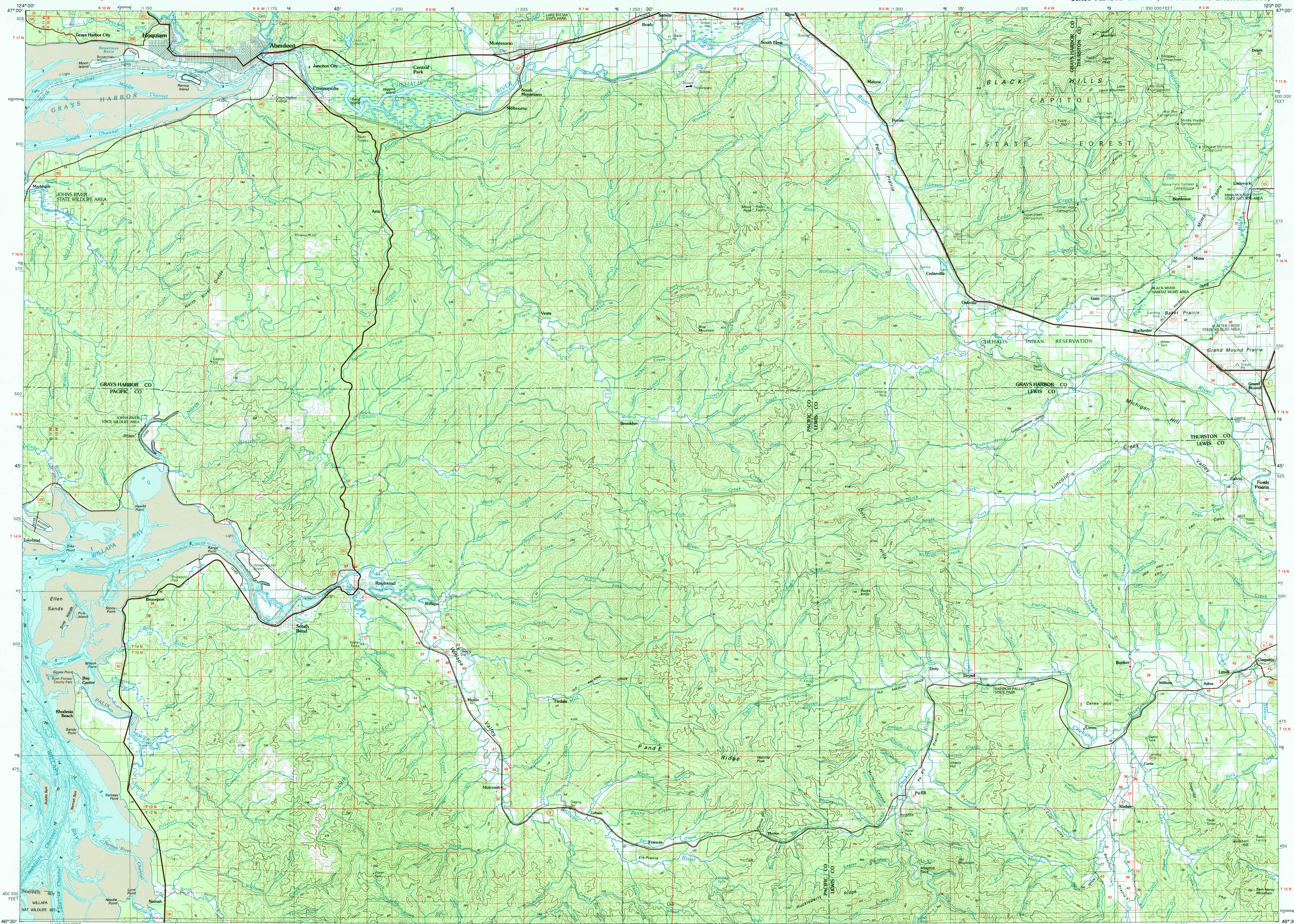


CHEHALIS RIVER, WASHINGTON

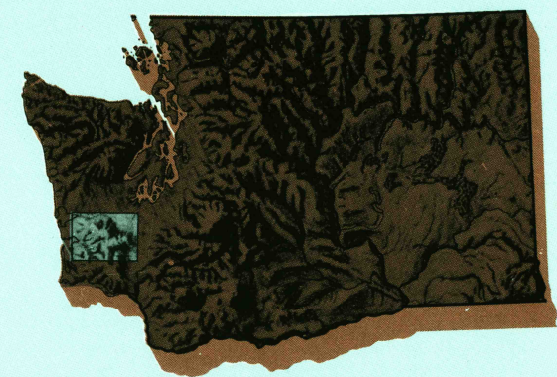
30X60 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)



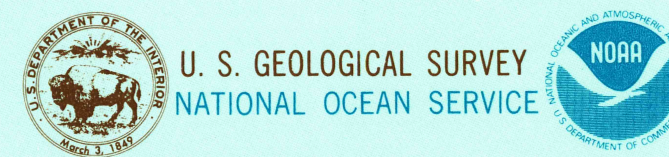
Chehalis River

WASHINGTON

1:100 000-scale metric
topographic—bathymetric map



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



1992

Produced by the United States Geological Survey and the National Ocean Service
Compiled from USGS 1:24 000-scale topographic maps dated 1985-1986. Bathymetry derived from aerial photographs taken and other source data. Revised information not field checked. Map dated 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 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, south 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
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METRE
BATHYMETRIC CONTOUR INTERVALS: 10 METERS TO MAXIMUM DEPTH
SUPPLEMENTED BY 2-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 DATA COMPLES WITH INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO) SPECIAL PUBLICATION #4 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		4	5	
2	6.5617				
3	9.8425				
4	13.1234		6	7	8
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		UTM grid convergence (GN and 1982 magnetic declination) at center of map Diagram is approximate	1 Copalis Beach 2 Shelton 3 Tacoma 4 Westport 5 Centralia 6 Ilwaco 7 Astoria 8 Mt Saint Helens		
To convert feet to meters multiply by 0.3048					

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80263, 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 gauge, narrow gauge	
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: adit or cave, mine, quarry: gravel pit	
Campground, picnic area, U. S. location monument	
Ruin, 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	

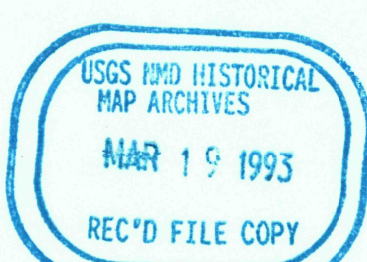
A pamphlet describing topographic maps is available on request

HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-6516	1939	1:10,000	01-39
H-6517	1939	1:10,000	02-12
H-6519	1939	1:10,000	02-12
H-6520	1939	1:10,000	02-12
H-6136	1964	1:10,000	02-38
H-6137	1964	1:10,000	02-38
H-6251	1955-56	1:10,000	02-39
H-6252	1956	1:10,000	04-10

NOS CHART 1604 1982 1:40,000

HYDROGRAPHIC SURVEY INDEX



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