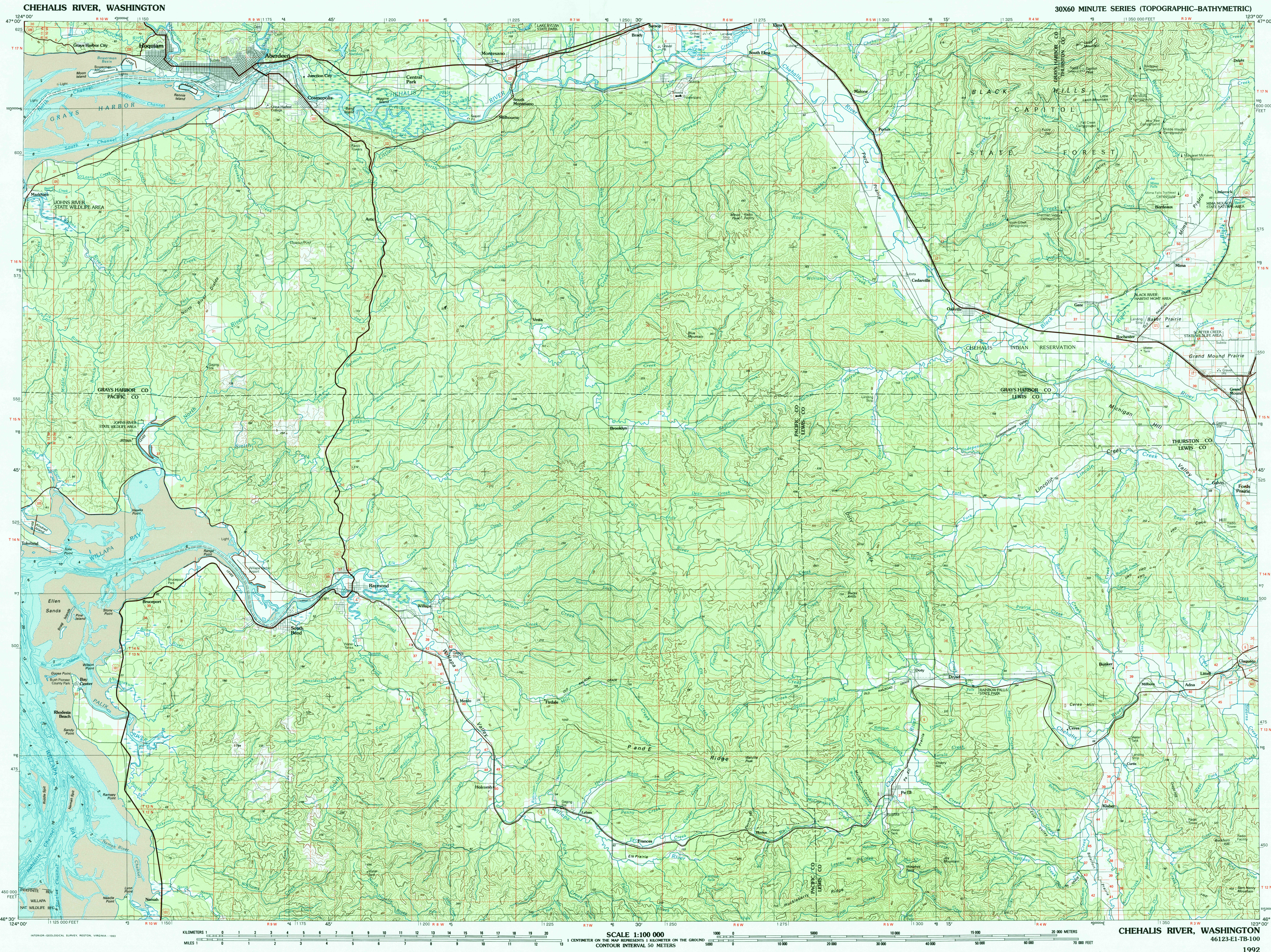




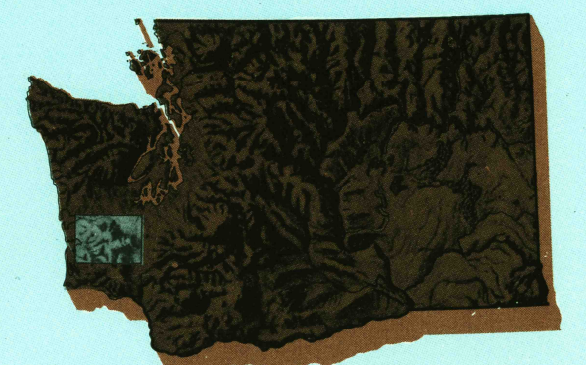
CHEHALIS RIVER, WASHINGTON

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



U. S. GEOLOGICAL SURVEY
NATIONAL OCEAN SERVICE

1992

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

Compiled from USGS 1:24 000-scale topographic maps dated 1983-1986. Bathymetry compiled from aerial photographs taken 1981-1982 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 3 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.

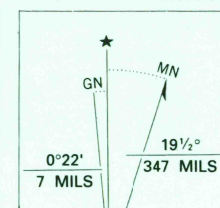
CONTOUR INTERVAL 50 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METERS
BATHYMETRIC CONTOUR INTERVALS 10 METERS TO MAXIMUM DEPTH
SUPPLEMENTED BY 2 METER INTERVALS. DATUM IS MEAN LOWER LOW WATER. THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE.

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

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9658
8	26.2466
9	29.5274
10	32.8083

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

DECLINATION DIAGRAM



UTM grid convergence (5N) and 1983 magnetic declination (M) at center of map
Diagram is approximate

ADJOINING MAPS	1	2	3
1 Copalis Beach			
2 Shelton			
3 Tacoma			
4 Westport			
5 Centralia			
6 Buxco			
7 Astoria			
8 Mt Saint Helens			

ISBN 0-607-58399-1
9 780607 583991

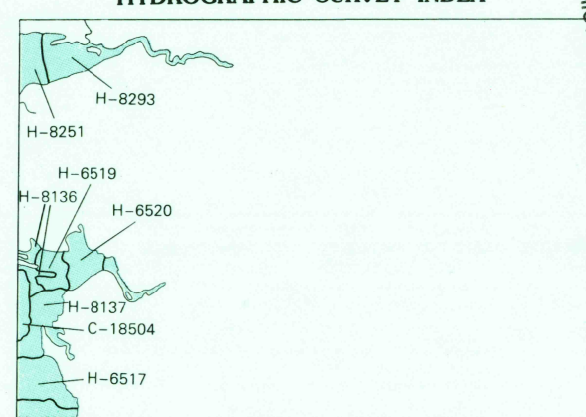
Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, principal street, hard or improved surface
- Other road or street, toll
- 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
- Ruin, old dwelling
- Distorted surface: strip mine, levee, sand
- Contours: index; intermediate; supplementary
- Bathymetric contours: index; intermediate
- Stream, lake, perennial; intermittent
- Rivule, large and small; falls, large and small
- Area to be submerged; marsh, swamp
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

HYDROGRAPHIC SURVEY INFORMATION			
SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-6516	1939	1:10,000	21-29
H-6517	1939	1:10,000	22-12
H-6518	1939	1:10,000	22-12
H-6520	1939	1:10,000	21-12
H-6136	1954	1:10,000	22-28
H-8137	1954	1:10,000	22-28
H-6551	1955-56	1:10,000	22-28
H-6293	1956	1:10,000	24-10

NOS CHART 18004 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, NECC&D, National Ocean Service, National Oceanic and Atmospheric Administration, Rockville, Maryland 20852.

A pamphlet describing topographic maps is available on request

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