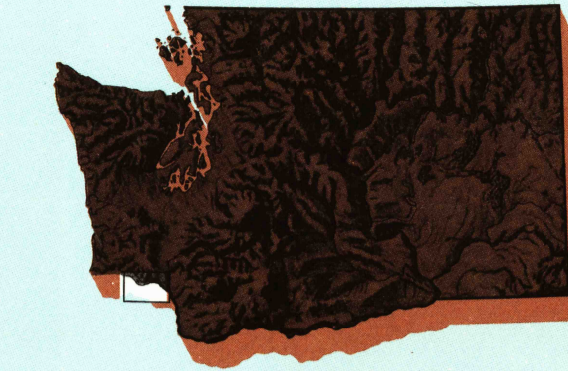
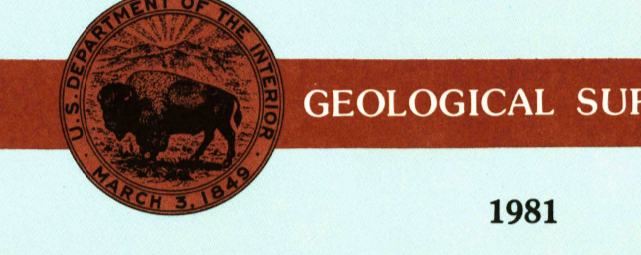


1:100 000-scale metric topographic map of Astoria OREGON—WASHINGTON



30 X 60 MINUTE QUADRANGLE SHOWING

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



Produced by the United States Geological Survey
Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1949-1978. Planimetry revised from aerial photographs taken 1976-77, 1979, and other source data. Revised information not field checked. Map edited 1981.
Projection and 10 000-meter grid, zone 10, Universal Transverse Mercator
25 000-foot grid ticks based on Washington coordinate system, south zone and Oregon coordinate system, north zone 1927 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 the National or State reservations shown on this map

CONTOUR INTERVAL 50 METERS NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

Table with 3 columns: Conversion Table (Meters to Feet), Declination Diagram, and Adjoining Maps (listing Wetport, Clatskanie, etc.).

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092

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; edit 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