



1 X 2 DEGREE QUADRANGLE  
SHOWING

- 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



1989

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

Compiled from USGS 1:100 000-scale topographic maps dated 1983-84  
Supersedes map dated 1978. Map edited 1989

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

North American Datum of 1983 (NAD 83). Projection and  
10 000-meter grid: Universal Transverse Mercator, zone 18  
25 000-meter grid ticks: Maryland, Pennsylvania (south  
zone), Virginia (north zone), and West Virginia (north  
zone). Coordinate Systems of 1983

The difference between NAD 83 and North American Datum of  
1927 (NAD 27) for 7.5 minute intersections is given in USGS  
Bulletin 1875

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

1989 MAGNETIC DECLINATION FROM TRUE NORTH VARIES FROM 9°1' (160 MILS) WESTERLY FOR THE CENTER OF THE WEST EDGE TO 11° (196 MILS) WESTERLY FOR THE CENTER OF THE EAST EDGE. MEAN ANNUAL CHANGE IS 6.5° WESTERLY

CONTOUR INTERVAL 40 METERS WITH SUPPLEMENTARY  
CONTOURS AT 20 METER INTERVALS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATIONS SHOWN TO THE NEAREST METER  
BATHYMETRIC CONTOUR INTERVAL 2 METERS  
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 AS OF THE DATE OF THE SURVEYS

CONVERSION TABLE			ADJOINING MAPS		
Meters	Feet	Meters	1	2	3
1	3.2808	1	1	2	3
2	6.5617	2	2	3	4
3	9.8425	3	3	4	5
4	13.1234	4	4	5	6
5	16.4042	5	5	6	7
6	19.6850	6	6	7	8
7	22.9659	7	7	8	9
8	26.2467	8	8	9	10
9	29.5275	9	9	10	11
10	32.8084	10	10	11	12

To convert meters to feet  
multiply by 3.2808

To convert feet to meters  
multiply by 0.3048

1 Pittsburgh  
2 Harrisburg  
3 Newark  
4 Cumberland  
5 Wilmington  
6 Charlottesville  
7 Washington  
8 Salisbury

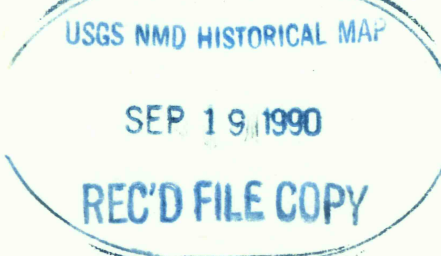
FOR SALE BY U.S. GEOLOGICAL SURVEY  
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
AND NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852

Topographic Map Symbols

Dual highway, interchange	Primary highway, hard surface	Secondary highway, hard surface	Light duty road, hard or improved surface	Other road, trail	Route marker: Interstate, U.S., State	Bridge, overpass, underpass	Tunnel, road, railroad	Railroad: standard gauge; single, multiple track	Railroad: narrow gauge; single, multiple track	Build-up area, locality, elevation	Airport, runway pattern known, unknown	Natural boundary	State boundary	County boundary	National or State reservation boundary	Land grant boundary	U.S. public lands survey: range, township (surveyed)	U.S. public lands survey: range, township (granted)	Dam: pipeline: aboveground, underground	Pave: landmark feature: landmark building	Well, mine, quarry, oil platform	Landmark area: landmark marker	Colorful surface: strip mine, levee, sand	Contours: index, intermediate, supplementary	Bathymetric contours: index, primary	Bathymetric contours: intermediate, supplementary	Stream, lake, perennial, intermittent	Island, large and small: lake, large and small	Land subject to controlled inundation: marsh, swamp	Woodland: orchard, vineyard
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A pamphlet describing topographic maps is available on request

Figures in red denote approximate distances in kilometers between markers



BALTIMORE, MD.-PA.-VA.-W. VA.



SCALE 1:250 000  
1 CENTIMETER ON THE MAP REPRESENTS 2.5 KILOMETERS ON THE GROUND  
CONTOUR INTERVAL 40 METERS  
SUPPLEMENTARY CONTOUR INTERVAL 20 METERS

MILES 5 0 5 10 15 20  
KILOMETERS 5 0 5 10 15 20

WASHINGTON 82 KM  
ALEXANDRIA 32 KM  
WASHINGTON 14 KM  
WASHINGTON 16 KM  
WASHINGTON 18 KM  
WASHINGTON 20 KM  
WASHINGTON 22 KM  
WASHINGTON 24 KM  
WASHINGTON 26 KM  
WASHINGTON 28 KM  
WASHINGTON 30 KM  
WASHINGTON 32 KM  
WASHINGTON 34 KM  
WASHINGTON 36 KM  
WASHINGTON 38 KM  
WASHINGTON 40 KM  
WASHINGTON 42 KM  
WASHINGTON 44 KM  
WASHINGTON 46 KM  
WASHINGTON 48 KM  
WASHINGTON 50 KM  
WASHINGTON 52 KM  
WASHINGTON 54 KM  
WASHINGTON 56 KM  
WASHINGTON 58 KM  
WASHINGTON 60 KM  
WASHINGTON 62 KM  
WASHINGTON 64 KM  
WASHINGTON 66 KM  
WASHINGTON 68 KM  
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WASHINGTON 72 KM  
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WASHINGTON 76 KM  
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WASHINGTON 82 KM  
WASHINGTON 84 KM  
WASHINGTON 86 KM  
WASHINGTON 88 KM  
WASHINGTON 90 KM  
WASHINGTON 92 KM  
WASHINGTON 94 KM  
WASHINGTON 96 KM  
WASHINGTON 98 KM  
WASHINGTON 100 KM