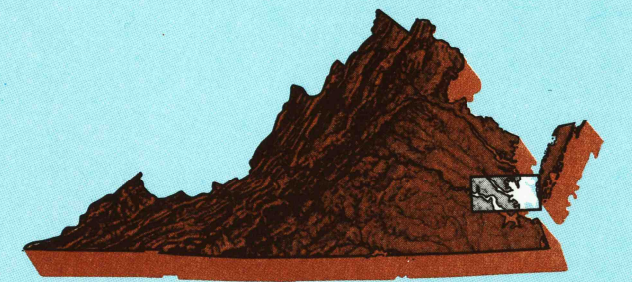


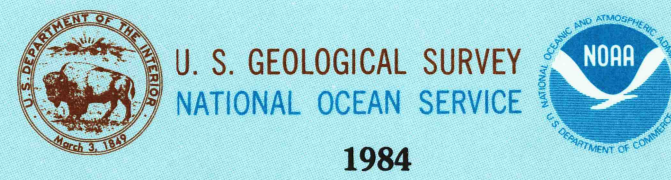
Williamsburg
VIRGINIA

1:100 000-scale metric
topographic—bathymetric map



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-scale topographic maps dated 1964-1980
Bathymetry revised from aerial photographs taken 1982 and other source data. Revised information not field checked. Map edited 1984
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 shorelines (outer edge of vegetation) shown by light solid line
Projection and 10 000-meter grid, zone 18: Universal Transverse Mercator 25 000-foot grid ticks based on Virginia coordinate system, south zone, 1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 11 meters south and 29 meters west
There may be private subdivisions within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 5 METERS
NATIONAL GEODESIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER
BATHYMETRIC CONTOUR INTERVAL 1 METERS WITH SUPPLEMENTARY 1 METER CONTOURS—MEAN LOWER LOW WATER DATUM
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		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet			1	2	3	
1	3.2808			4	5		
2	6.5617						
3	9.8425						
4	13.1234						
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 (NAD 83) magnetic declination (NAD 83) at center of map		1 Richmond 2 Topshamneck 3 Chincoteague 4 Petersburg 5 Chertion 6 Emporia 7 Norfolk 8 Va. Beach			
To convert feet to meters multiply by 0.3048		Diagram is approximate					

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 22092 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: 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, lava, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake, perennial, intermittent
- Reefs, 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

