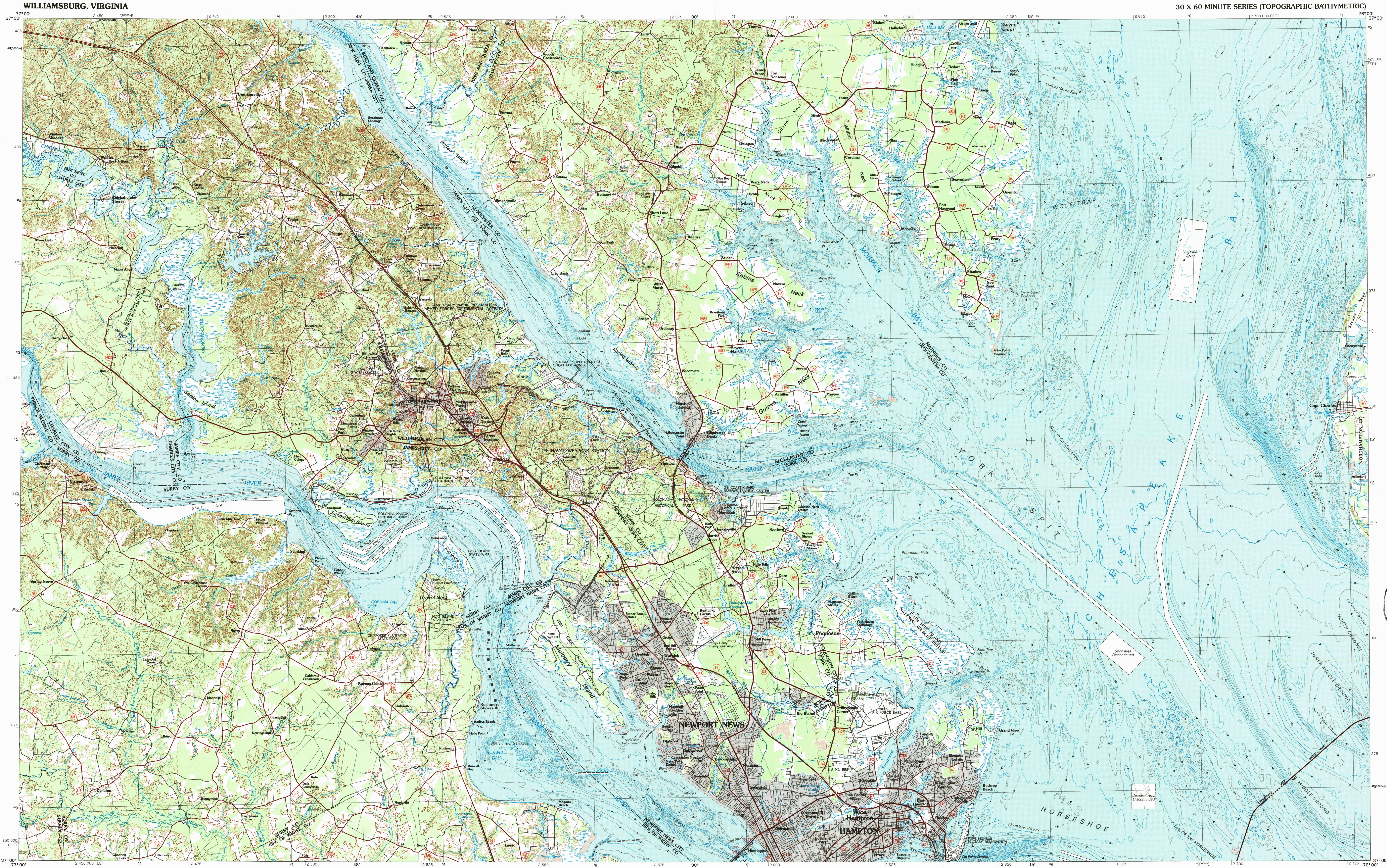
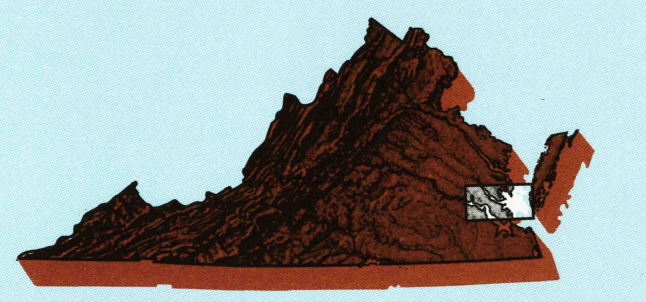




Williamsburg

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



U. S. GEOLOGICAL SURVEY
NATIONAL OCEAN SERVICE



1984

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

Compiled from USGS 1:24 000-scale topographic maps dated 1964-1980

Planimetry 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 shoreline (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, 1907 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 inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 5 METERS

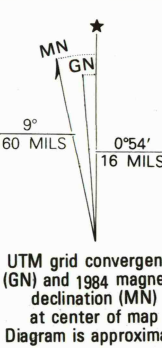
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ELEVATIONS SHOWN TO THE NEAREST METER

BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY 1 METER CONTOURS MEAN LOWER LOW WATER DATUM

THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

BASE MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS. BATHYMETRIC SURVEY DATA COMPLIES 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	MAG. CLIN.		1	2	3		
1	3.2808			4	5			
2	6.5616			6	7	8		
3	9.8424							
4	13.1232							
5	16.4040							
6	19.6848							
7	22.9656							
8	26.2464							
9	29.5272							
10	32.8080							

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

UTM grid convergence (GN) and 1984 magnetic declination (MAG) at center of map

Diagram is approximate

1 Richmond

2 Tappanahock

3 Chincoteague

4 Petersburg

5 Chertown

6 Emporia

7 Norfolk

8 Va. Beach

ISBN 0-607-56555-8

9 780607 566550

U.S. GEOLOGICAL SURVEY
MAP ARCHIVES
APR 30 1997
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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: protruded	-----
Power transmission line; pipeline	-----
Dam; dam with lock	-----
Cemetery; building	-----
Winds: water well; spring	-----
Mine shaft; salt or coal; 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	-----

A pamphlet describing topographic maps is available on request