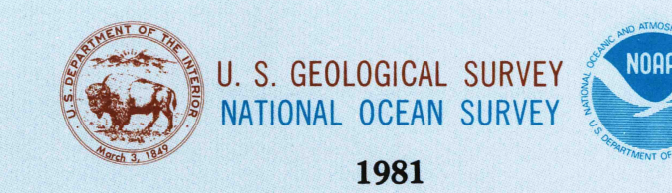


30 X 60 MINUTE QUADRANGLE SHOWING

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



Produced by the Geological Survey and the National Ocean Survey in cooperation with State of Virginia Agencies
 Compiled from USGS 1:250 000-scale topographic maps dated 1968. Planimetry revised from aerial photographs taken 1973 and 1977 and other source data. Revised information not field checked. Map edited 1981.
 Bathymetry compiled by the National Ocean Survey from tide-coordinated hydrographic surveys. This information is not intended for navigational purposes. Mean low water (dotted) line and mean high water (heavy solid) line compiled by NOS from tide-coordinated photography. 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, 1927 North American Datum.
 To place on the predicted North American Datum 1983 move the projection lines 10 meters south and 31 meters west.
 Obsolete projection survey data, printed in red, compiled by the Bureau of Land Management. Heavy lines indicate limits of BLM Outer Continental Shelf Official Protection Diagram dated September 1, 1978. The projections on this map are not for Federal leasing purposes. For such purposes, refer to the 1:250 000-scale OCS Official Protection Diagrams available from the Bureau of Land Management.
 There may be private inholdings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 2 METERS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 BATHYMETRIC CONTOUR INTERVAL 2 METERS WITH SUPPLEMENTARY 1 METER CONTOURS. DATUM IS MEAN LOW WATER. 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 SURVEY.

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet	MAGNETIC		1	2	3	4
1	3.281	N		1	2	3	4
2	6.562	E		5	6	7	8
3	9.843	S					
4	13.124	W					
5	16.405	N					
6	19.686	E					
7	22.967	S					
8	26.248	W					
9	29.529	N					
10	32.810	E					

To convert meters to feet multiply by 3.281
 To convert feet to meters multiply by 0.3048

UTM grid convergence (600 m by 600 m):
 11° 45' 00" N: 0.000 m
 11° 45' 00" S: 0.000 m
 Diagram is approximate

1 Topshamock
 2 Chincoteague
 3 Millington
 4 Norfolk
 5 Virginia Beach
 6

FOR SALE BY U.S. GEOLOGICAL SURVEY
 RESTON, VIRGINIA 22092
 AND NATIONAL OCEAN SURVEY
 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 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; protected
- Power transmission line; pipeline
- Dam; dam with lock
- Cemetery; building
- Windmill; water well; spring
- Mine shaft; adit or cave; mine, quarry; gravel pit
- Contaminated 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
- Swamp, large and small; lake, 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

