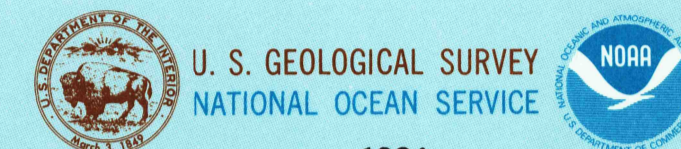


30 X 60 MINUTE QUADRANGLE SHOWING

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



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. 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 2 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.

Meters	Feet
1	3.2808
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
To convert feet to meters multiply by 0.3048

UTM grid convergence (RM and 1984 magnetic declination (MM) at center of map. Diagram is approximate.

ADJOINING MAPS	1	2	3
1	Richmond		
2	Terrapin Neck		
3	Chincoteague		
4	Emporia		
5	Cheriton		
6	Emporia		
7	Norfolk		
8	Sw. Beach		

FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80292 OR RESTON, VIRGINIA 20192 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 gage, narrow gage
- Bridge, covered, 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
- 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, cell dwelling
- Disturbed surface: strip mine, levee, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake, perennial, intermittent
- Reefs, large and small, shoals, large and small
- Area to be submerged: marsh, swamp
- Land subject to controlled inundation, woodland
- Swamp, mangrove
- Ordinary, vineyard

A pamphlet describing topographic maps is available on request

