UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES

NORFOLK NORTH QUADRANGLE
VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC–BATHYMETRIC)

Produced by the United States Geological Survey and the National Ocean Service in cooperation with Commonwealth of Virginia agencies

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1963. Field checked 1965

Bathymetry compiled by the National Ocean Service 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 aerial photographs
Apparent shoreline (outer edge of vegetation) shown by light solid line

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Virginia coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 18 shown in blue
To place on the predicted North American Datum 1983, move the projection lines 11 meters south and 30 meters west as shown by dashed corner ticks

Red tint indicates areas in which only landmark buildings are shown

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

Map photoinspected 1989
No major culture or drainage changes observed

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

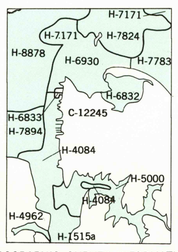
CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
BATHYMETRIC CONTOUR INTERVAL 1 METER WITH SUPPLEMENTARY 0.5 METER CONTOURS–DATUM IS MEAN LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE

VIRGINIA
QUADRANGLE LOCATION

MN GN
8½° 151 MILS
0°47′ 14 MILS
UTM GRID AND 1987 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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 AT THE DATE OF THE SURVEY
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

NATIONAL OCEAN SERVICE HYDROGRAPHIC SURVEY INDEX



HYDROGRAPHIC SURVEY INFORMATION

SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-1515a	1882	1:10,000	.02-.06
H-4084	1919	1:10,000	.01-.07
H-4962	1930	1:10,000	.01-.08
H-5000	1929	1:10,000	.01-.09
H-6832	1943	1:10,000	.01-.04
H-6833	1943	1:2,500	.01-.02
H-6930	1944	1:5,000	.01-.04
H-7171	1947	1:10,000	.01-.03
H-7783	1949	1:10,000	.01-.07
H-7824	1950	1:10,000	.02-.06
H-7894	1951	1:10,000	.02-.08
H-8878	1966	1:10,000	.02-.09
NOS CHART 12245	DEC 1964	1:20,000	

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
Interstate Route — U. S. Route — State Route

DEPTH GRADIENTS

Meters	Feet
Exposed at low tide	
0	0
5	16.4
10	32.8
15	49.2
20	65.6
25	82.0

Maximum depth

NORFOLK NORTH, VA.
36076-H3-TB-024
PHOTOINSPECTED 1989
1965
PHOTOREVISED 1986
BATHYMETRY ADDED 1986

DMA 5757 IV NE–SERIES V834

Revision shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1981 and other source data. This information not field checked. Map edited 1986

USGS NMD HISTORICAL MAP
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