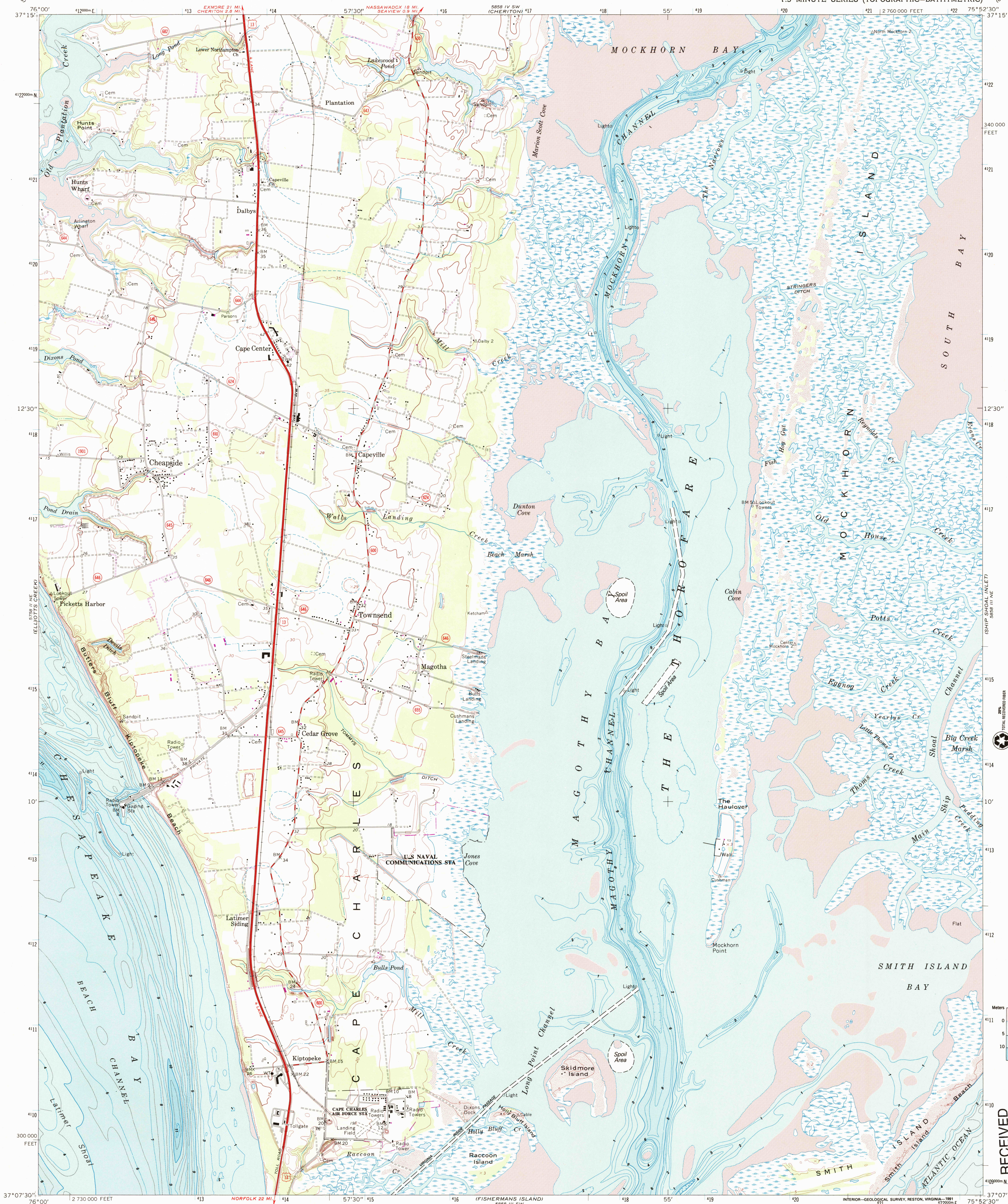




U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES

TOWNSEND QUADRANGLE
VIRGINIA-NORTHAMPTON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC-BATHYMETRIC)



Mapped, edited, and published by the Geological Survey and the National Ocean Service

Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1967. Field checked 1968

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

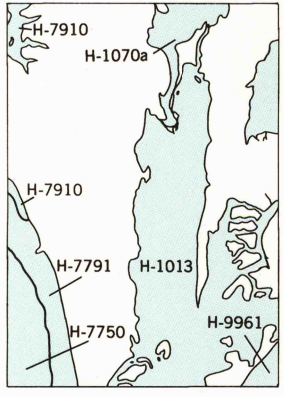
Polyconic projection. 1927 North American Datum 10,000-foot grid based on Virginia coordinate system, south zone 1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

To place on the predicted North American Datum 1983, move the projection lines 10 meters south and 30 meters west as shown by dashed corner ticks

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

Short dashed blue lines indicate elliptical bay outlines visible on aerial photographs

NATIONAL OCEAN SERVICE
HYDROGRAPHIC SURVEY INDEX



SURVEY NUMBER	SURVEY DATE	SURVEY SCALE	SURVEY LINE SPACING (NAUT. MILES)
H-1013	1869	1:20,000	15-33
H-1078	1870	1:20,000	20-40
H-7750	1950	1:40,000	05-25
H-7781	1949	1:10,000	02-10
H-7910	1950	1:10,000	02-06
H-9961	1981	1:20,000	02-07

SCALE 1:24,000

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

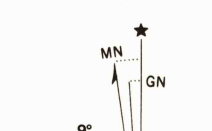
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
NATIONAL OCEAN SERVICE, ROCKVILLE, MARYLAND 20852
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

Primary highway, all weather, hard surface
Secondary highway, all weather, hard surface
Unimproved road, fair or dry weather
Light-duty road, all weather, improved surface
Unimproved road, fair or dry weather

U.S. Route
State Route

QUADRANGLE LOCATION



UTM GRID AND 1986 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Map photoinspected 1989
No major culture or drainage changes observed

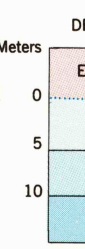
TOWNSEND, VA.
37075-B8-TB-024

PHOTOINSPECTED 1989
1968
PHOTOREVISED 1980

BATHYMETRY ADDED 1986
DMA 8558 III NW-SERIES V834

Revisions shown in purple compiled in cooperation with Commonwealth of Virginia agencies from aerial photographs taken 1978 and other source data. This information not field checked. Map edited 1980.

Boundary lines shown in purple compiled from latest information available from the controlling authority



RECEIVED
AUG 3 1 2002
USGS NWU
HISTORICAL MAP ARCHIVES

