THE NATION'S CHARTMAKER SINCE 1807

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.529" northward and 1.221" eastward to agree with this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

SOUNDINGS IN FEET

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

Additional information can be obtained at nauticalcharts.noaa.gov.

For Symbols and Abbreviations see Chart No. 1

COLREGS: International Regulations for Preventing Collisions at Sea, 1972. Demarcation lines are shown thus: – – – – –

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and National Geospatial-Intelligence Agency.

UNITED STATES - EAST COAST

VIRGINIA

CHESAPEAKE BAY

CAPE CHARLES TO NORFOLK HARBOR

Formerly C&GS 562, 1st Ed., Mar. 1964 KAPP 559

Mercator Projection
Scale 1:40,000 at Lat. 37° 00'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

HEIGHTS

Heights in feet above Mean High Water.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 3 for important supplemental information.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus: ⊙(Accurate location) o(Approximate location)

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

SCALE 1:40,000

Nautical Miles / Statute Miles / Yards / Meters

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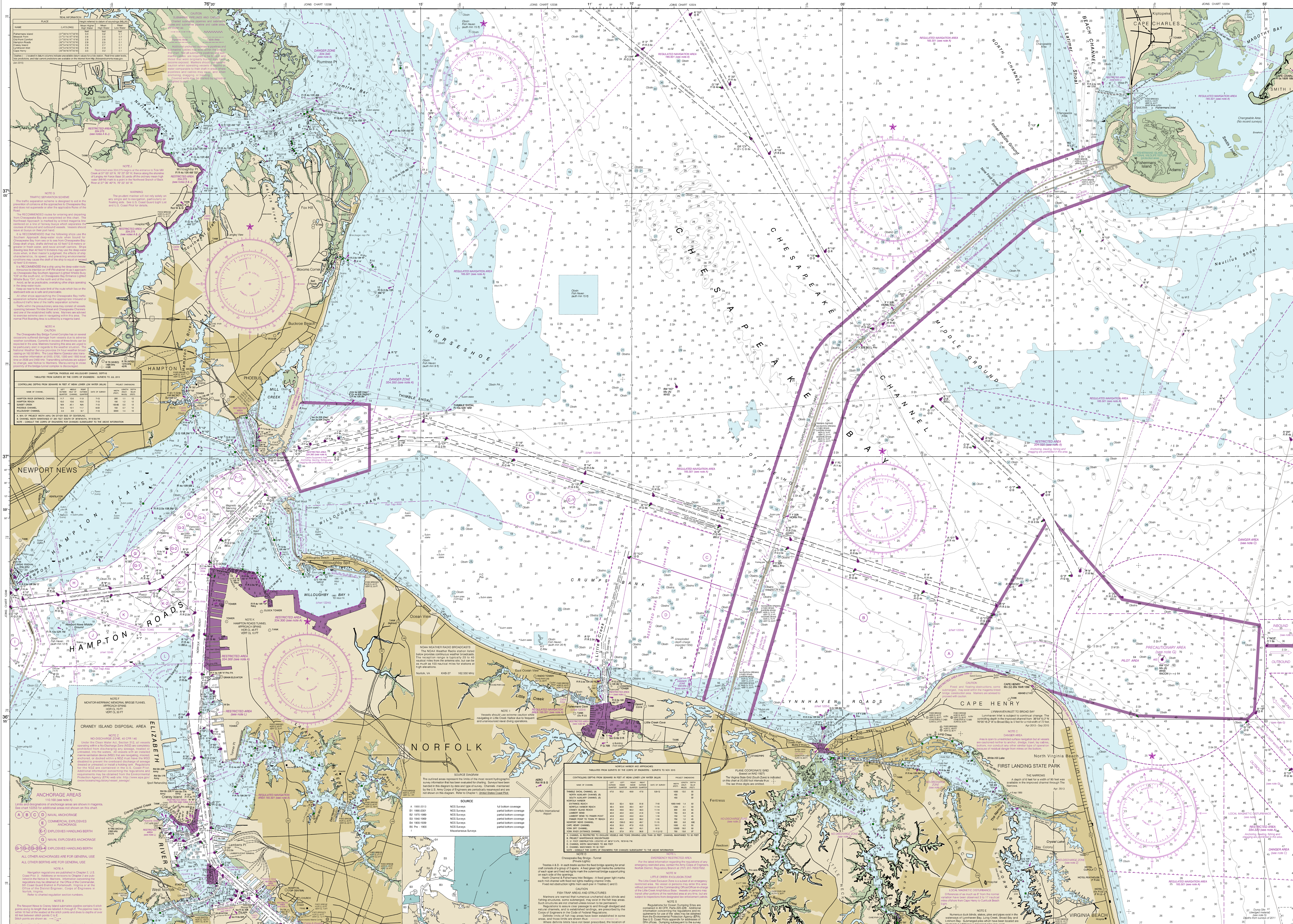

TIDAL INFORMATION

PLACE NAME	(LAT/LONG)	Mean Higher High Water (feet)	Mean High Water (feet)	Mean Low Water (feet)
Fishermans Island	(37°06'N/75°59'W)	3.4	3.2	0.1
Messick Point	(37°07'N/76°19'W)	2.6	2.5	0.2
Old Point Comfort	(37°00'N/76°19'W)	2.8	2.6	0.1
Hampton Roads	(36°57'N/76°20'W)	2.8	2.5	0.1
Craney Island	(36°54'N/76°20'W)	2.9	2.7	0.1
Lynnhaven Inlet	(36°54'N/76°05'W)	2.6	2.4	0.1
Cape Henry	(36°56'N/76°00'W)	3.5	3.2	0.1

Height referred to datum of soundings (MLLW). Dashes (- -) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov. (Jan 2015)

HAMPTON, PHOEBUS AND WILLOUGHBY CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2013

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HAMPTON RIVER ENTRANCE CHANNEL	11.7	12.6	11.9	7-13	200	1.1	12
HAMPTON REACH	10.0	10.6	10.6	7-13	150	1.2	12
SUNSET CREEK	N/A	A7.1	N/A	7-13	100-80	0.5	12
PHOEBUS CHANNEL	12.5	12.1	11.7	6-03	150	0.7	12
WILLOUGHBY CHANNEL	2.0	2.9	9.7	7-13	B300	1.4	10

Controlling depths from seaward in feet at Mean Lower Low Water (MLLW); project dimensions.
A. 80% OF PROJECT WIDTH (40%) ON EITHER SIDE OF CENTERLINE.
B. CHANNEL WIDTH MAINTAINED AT 200 FEET SOUTH OF 36°58'43.0"N, 76°18'38.5"W.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

SOURCE

A	1990-2013	NOS Surveys	full bottom coverage
B1	1990-2001	NOS Surveys	partial bottom coverage
B2	1970-1989	NOS Surveys	partial bottom coverage
B3	1940-1969	NOS Surveys	partial bottom coverage
B4	1900-1939	NOS Surveys	partial bottom coverage
B5	Pre - 1900	NOS Surveys	partial bottom coverage
f		Miscellaneous Surveys	

NORFOLK HARBOR AND APPROACHES
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO NOV 2015

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
THIMBLE SHOAL CHANNEL (A)	47.8	50.2	49.9	47.6	8,9-12	1000	13.0	55
NORTH AUXILIARY CHANNEL (B)						450		32
SOUTH AUXILIARY CHANNEL (B)						450		32
NORFOLK HARBOR								
ENTRANCE REACH	50.0	52.4	52.6	51.8	7-10	1000-1440	1.4	50
NORFOLK HARBOR REACH	49.4	50.6	49.4	46.7	11-14	1250	4.1	50
CRANEY ISLAND REACH	48.6	49.6	50.2	48.3	11-14	800	2.6	50
LAMBERT BEND	43.0	43.0	43.0	41.6	1-10	750	0.3	45
LAMBERT BEND TO PINNER POINT	42.6	43.0	43.0	40.4	1-10	750	1.0	45
PINNER POINT TO TOWN PT REACH	37.2	40.0	40.0	39.2	1-10	750	1.0	45
NEWPORT NEWS CHANNEL	48.9	C50.0	50.3	49.7	11-15	800	5.8	55E
CAPE HENRY CHANNEL	45.6	50.0	47.9	43.5	10-11	1000	4.0	50
YORK SPIT CHANNEL	39.5	49.4	49.7	45.1	8-15	1000D	19.0	50
YORK RIVER ENTRANCE CHANNEL	36.2	37.9	37.5	36.8	11-11,2-12	750	13.8	37

Controlling depths from seaward in feet at Mean Lower Low Water (MLLW); project dimensions.
A. CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. CHANNEL MAINTAINED TO 50 FEET.
B. PROJECT MAINTENANCE DISCONTINUED
C. 51 FOOT OBSTRUCTION LOCATED AT 36°57'12.4"N, 76°24'45.1"W.
D. CHANNEL WIDTH MAINTAINED TO 800 FEET
E. CHANNEL MAINTAINED TO 50 FEET
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

55th Ed., Feb. 2015. Last Correction: 12/13/2016. Cleared through:
LNM: 4916 (12/6/2016), NM: 5116 (12/17/2016)

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If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

SCALE 1:40,000

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NATIONAL OCEAN SERVICE
COAST SURVEY

SOUNDINGS IN FEET

FATHOMS / FEET / METERS

Cape Charles to Norfolk Harbor
SOUNDINGS IN FEET - SCALE 1:40,000

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