TIDAL INFORMATION

Place	Height referred to datum of soundings (MLW)			
	Mean High Water	Mean Tide Level	Mean Low Water	Extreme Low Water
	feet	feet	feet	feet
Fishermans Island, 37°06′-75°56′	3.0	1.5	0.0	−2.5
Messick Point, Back River, 37°08′-76°19′	2.5	1.2	0.0	−3.0
Hampton Roads, Sewells Point, 36°57′-76°20′	2.5	1.2	0.0	−3.5
Hampton Roads, 36°57′-76°20′	2.5	1.2	0.0	−3.5
Craney Island Light, 36°54′-76°20′	2.6	1.3	0.0	−3.5
Lynnhaven Inlet, 36°54′-76°09′	2.0	1.0	0.0	−3.0
Cape Henry, 36°56′-76°00′	3.8	1.4	0.0	−2.5

(1977)

LOGARITHMIC SPEED SCALE

To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the speed is 16.0 knots

STORM WARNINGS

The National Weather Service displays storm warnings at the following approximate locations:

Cape Henry (36°55.6′-76°00.4′)
Little Creek (36°55.0′-76°10.8′)
Fort Monroe (37°00.1′-76°18.8′)
Norfolk Naval Base (36°57.1′-76°19.9′)

For Symbols and Abbreviations see Chart No. 1, COLREGS, International Regulations for Preventing Collisions at Sea, 1972.
Demarcation lines are shown thus

HEIGHTS

Heights in feet above Mean High Water
Contour interval 20 feet. Relief is shown only where of importance to radar interpretation.

AUTHORITIES

Hydrography and topography by the National Ocean Survey (formerly the Coast and Geodetic Survey) with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard and Defense Mapping Agency.

UNITED STATES – EAST COAST

VIRGINIA

CHESAPEAKE BAY

CAPE CHARLES TO NORFOLK HARBOR

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

Mercator Projection
Scale 1:40,000 at Lat. 37°00′
North American 1927 Datum
SOUNDINGS IN FEET
AT MEAN LOW WATER

CAUTION

FISH TRAP AREAS AND STRUCTURES

Mariners are warned that numerous unmarked duck blinds and fishing structures, some submerged, may exist in fish trap areas. Such structures are not charted unless known to be permanent.

Regulations to assure clear passage to and through dredged and natural channels and to established landings are prescribed by the Corps of Engineers in the Code of Federal Regulations. Definite limits of fish trap areas have been established in some areas and those limits are shown thus

Where definite limits have not been prescribed the location of fishing structures is restricted only by the regulations.

PLANE COORDINATE GRID

The Virginia State plane coordinate grid (South Zone) is indicated on this chart at 20,000 foot intervals thus

The last three digits are omitted.

CAUTION

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

HYDROGRAPHY

The most recent basic hydrographic survey used in the compilation of hydrography in the general area of Nautilus Shoal was accomplished by the NOAA Ship Pierce, commanded by Commander Carl W. Fisher in 1977.

POLLUTION REPORTS

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

SUPPLEMENTAL INFORMATION

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

AIDS TO NAVIGATION

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

Nautical Miles 0 1 2 3 4 5
Yards 0 1000 2000 3000 4000 5000

Nautical Chart Catalog No. 1, Panel D

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NORFOLK HARBOR AND APPROACHES

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT TO JUNE, 1978
NO SURVEYS IS MAX. 1975 - MIN. 1970

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SOUNDINGS IN FEET AT MEAN LOW WATER (MLW)					PROJECT DIMENSIONS		
	LEFT QUTR-ED	LEFT HAL-FWAY	RIGHT HAL-FWAY	RIGHT QUARTER QUARTER	DATE OF SURVEY	WIDTH (FEET)	DEPTH TRANSIT (FEET)	DEPTH MLW (FEET)
THIMBLE SHOAL CHANNEL, A	45.0	45.0	45.0	45.0	4.15-77	1000	0.0	45
THIMBLE SHOAL CHANNEL, B	32.0	32.0	32.0	32.0	4.15-77	400	0.0	32
SOUTH ABUTMENT CHANNEL	25.7	29.2	35.0	32.0	4.15-77	450	*9.0	32
NORFOLK HARBOR								
ENTRANCE REACH	45.0	45.0	45.0	45.0	1-77	1000	0.0	45
NORFOLK HARBOR REACH	39.1	44.8	44.2	42.5	1.3-79	600-1000	0.0	45
ERANKT ISLAND REACH	44.4	45.0	45.0	45.0	6-77;12-78	800	2.1	45
LAMBERT BEND	45.0	45.0	45.0	38.7	6-77	700	0.0	45
NEWPORT NEWS BEACH	45.0	45.0	45.0	45.0	6-77	700	0.0	45
NEWPORT NEWS CHANNEL	44.0	45.0	45.0	44.0	3-77;9-78	800	0.0	45
HAMPTON RIVER								
ENTRANCE CHANNEL	11.4	12.0	12.0	11.8	6-77	200	1.1	12
HAMPTON REACH	11.7	12.0	12.0	11.7	6-77	150	1.2	12
SINGER REACH								
TOILET REACH	12.0	12.0	12.0	12.0	3-87	150	0.0	12
WEST REACH	12.0	12.0	12.0	12.0	3-87	150	0.0	12
PHOEBUS CHANNEL	11.8	11.8	11.8	11.8	3-78	150	0.0	12

* THIS CHANNEL IS RESTRICTED TO EXCLUDE VESSELS AND TOWS DRAWING LESS THAN 25 FEET. THERE ARE NO RESTRICTIONS TO PASSENGER SHIPS.
MPTS-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

PRODUCED BY COMPUTER ASSISTED METHODS

22nd Ed., Jan. 27/79
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CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the print date shown in the lower left hand corner.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

SOUNDINGS IN FEET

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

12222

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