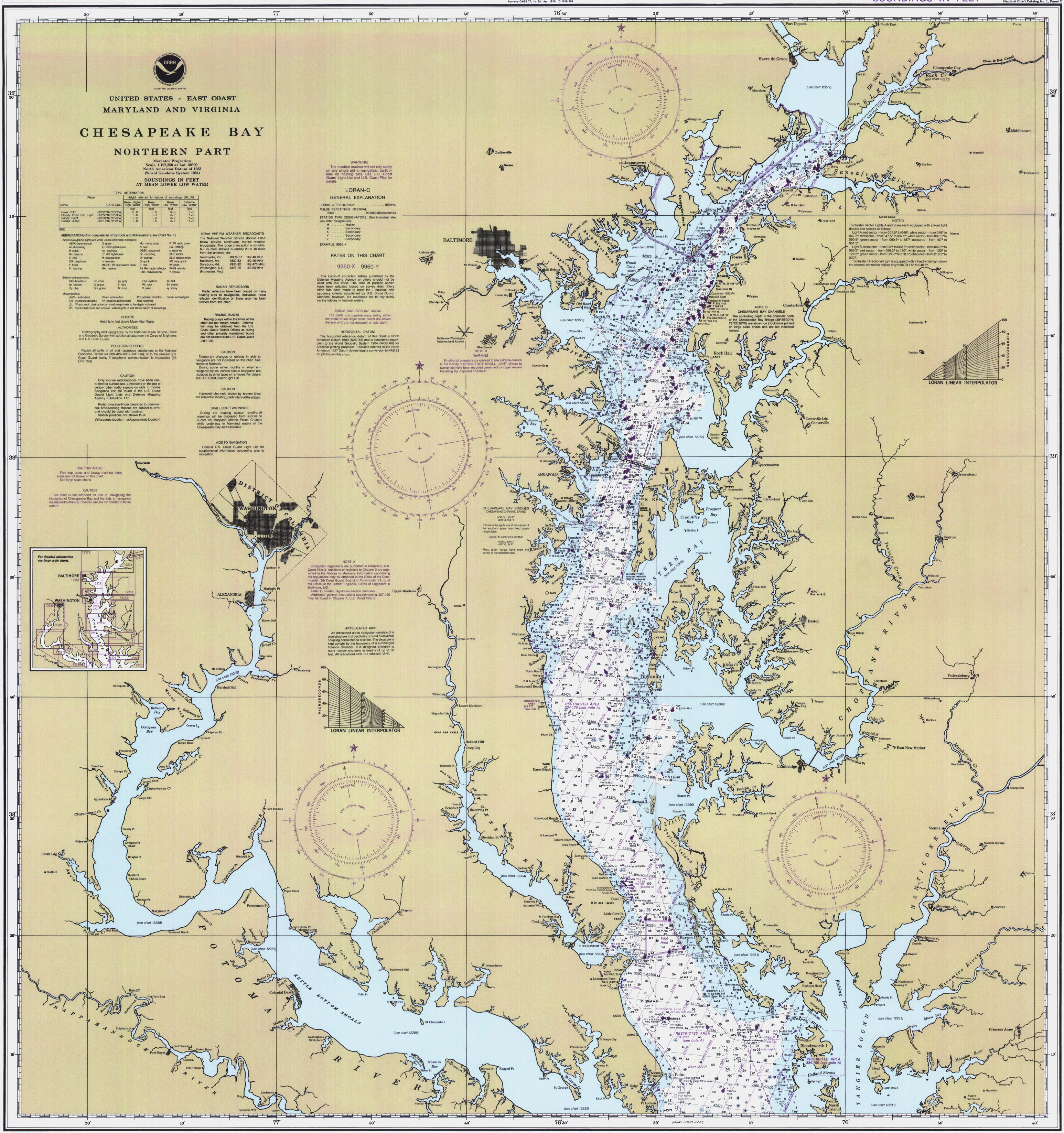
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Director, Coast and Geodetic Survey (N/CG22), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3233.

Formerly C&GS 77, 1st Ed., Apr. 1916 C-1916-164

SOUNDINGS IN FEET

Nautical Chart Catalog No. 1, Panel C


20′
10′
77°
50′
40′
76°30′
20′
10′
76°
50′
40′
39° 30′
20′
10′
39°
50′
40′
38° 30′
20′
10′
COAST AND GEODETIC SURVEY
MAGNETIC
VAR 10°45′W (1992) ANNUAL INCREASE 5′
VAR 10°15′W (1992) ANNUAL INCREASE 5′
VAR 10°00′W (1992) ANNUAL INCREASE 5′
VAR 10°30′W (1992) ANNUAL INCREASE 5′
BALTIMORE
WASHINGTON
DISTRICT OF COLUMBIA
ALEXANDRIA
ANNAPOLIS
Havre de Grace
Chesapeake City
Ches. & Del. Canal
Elkton
North East
Port Deposit
Susquehanna R
ELK RIVER
Sassafras River
Chestertown
Rock Hall
Easton
Cambridge
Tilghman I
CHOPTANK RIVER
NANTICOKE RIVER
Wicomico River
Manokin River
TANGIER SOUND
Fishing Bay
Hooper Strait
Bloodsworth I
Holland Straits
PATUXENT RIVER
POTOMAC RIVER
KETTLE BOTTOM SHOALS
RAPPAHANNOCK RIVER
Colonial Beach
Quantico
EASTERN BAY
Kent I
Crab Alley Bay
Prospect Bay
Federalsburg
Denton
Greensboro
Vienna
Princess Anne
Pt No Point
Cove Pt
Sandy Pt
Thomas Pt
Bloody Pt
Pooles I
Hawk Cove
North Pt
Patapsco River
Magothy R
Severn River
South River
West River
Rhode R
Herring Bay
Chesapeake Beach
Solomons I
St Marys River
St Clements I
Nomini Bay
(use chart 12274)
(use chart 12277)
(use chart 12278)
(use chart 12281)
(use chart 12282)
(use chart 12270)
(use chart 12272)
(use chart 12273)
(use chart 12263)
(use chart 12266)
(use chart 12268)
(use chart 12264)
(use chart 12284)
(use chart 12261)
(use chart 12231)
(use chart 12233)
(use chart 12230)
(use chart 12286)
(use chart 12287)
(use chart 12288)
(use chart 12289)
(JOINS CHART 12220)
RESTRICTED AREA 334.170 (see note A)
RESTRICTED AREA 334.200 (see note A)
RESTRICTED AREA 165.502 (see note A)
PROHIBITED AREA 334.170 (see note A)
PROHIBITED AREA 334.200 (see note A)
PROHIBITED AREA 334.190 (see note A)
DANGER AREA 334.180 (see note A)
Pilot Area
Spoil Area
LORAN LINEAR INTERPOLATOR
MICROSECONDS

UNITED STATES - EAST COAST
MARYLAND AND VIRGINIA

CHESAPEAKE BAY

NORTHERN PART

Mercator Projection
Scale 1:197,250 at Lat. 39°00′
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

TIDAL INFORMATION

Place		Height referred to datum of soundings (MLLW)			
Name	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
Cove Point	(38°23′N/76°23′W)	2.0	1.6	0.3	-5.0
Bloody Point Bar Light	(38°50′N/76°24′W)	1.6	1.3	0.2	-5.0
Sandy Point	(39°01′N/76°23′W)	1.2	1.0	0.2	-5.0
Pooles Island	(39°17′N/76°16′W)	1.8	1.5	0.3	-5.0

(893)

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	IQ interrupted quick	N nun	Rot rotating
B black	Iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Oc occulting	SEC sector
C can	M nautical mile	Or orange	St M statute miles
DIA diaphone	m minutes	Q quick	VQ very quick
F fixed	MICRO TR microwave tower	R red	W white
Fl flashing	Mkr marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics:

Blds boulders	Co coral	gy gray	Oys oysters	so soft
bk broken	G gravel	h hard	Rk rock	Sh shells
Cy clay	Grs grass	M mud	S sand	sy sticky

Miscellaneous:

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

21 Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS

Heights in feet above Mean High Water.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast and Geodetic Survey with additional data from the Corps of Engineers and U.S. Coast Guard.

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).

CAUTION

Only marine radiobeacons have been calibrated for surface use. Limitations on the use of certain other radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and Defense Mapping 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) ○(Approximate location)

NOAA VHF-FM WEATHER BROADCASTS

The National Weather Service stations listed below provide continuous marine weather broadcasts. The range of reception is variable, but for most stations is usually 20 to 40 miles from the antenna site.

Heathsville, Va.	WXM-57	162.40 MHz
Baltimore, Md.	KEC-83	162.40 MHz
Salisbury, Md.	KEC-92	162.475 MHz
Washington, D.C. (Manassas, Va.)	KHB-36	162.55 MHz

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.

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 privately maintained 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 Notice to Mariners.

During some winter months or when endangered by ice, certain aids to navigation are replaced by other types or removed. For details see U.S. Coast Guard Light List.

CAUTION

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

SMALL CRAFT WARNINGS

During the boating season small-craft warnings will be displayed from sunrise to sunset on Maryland Marine Police Cruisers while underway in Maryland waters of the Chesapeake Bay and tributaries.

AIDS TO NAVIGATION

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

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

LORAN-C
GENERAL EXPLANATION

LORAN-C FREQUENCY .... 100kHz.
PULSE REPETITION INTERVAL
9960 .... 99,600 Microseconds
STATION TYPE DESIGNATORS: (Not individual station letter designators).
M .... Master
W .... Secondary
X .... Secondary
Y .... Secondary
Z .... Secondary
EXAMPLE: 9960-X

RATES ON THIS CHART

9960-X 9960-Y

The Loran-C correction tables published by the Defense Mapping Agency or others should not be used with this chart. The lines of position shown have been adjusted based on survey data. Every effort has been made to meet the ¼ nautical mile accuracy criteria established by U.S. Coast Guard. Mariners, however, are cautioned not to rely solely on the lattices in inshore waters.

CABLE AND PIPELINE AREAS

The cable and pipeline areas falling within the areas of the larger scale charts are shown thereon and are not repeated on this chart.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum 1983 (NAD 83) and is considered equivalent to the World Geodetic System 1984 (WGS 84) for practical plotting purposes. Positions referred to the North American 1927 Datum do not require conversion to NAD 83 for plotting on this chart.

NOTE B
WARNING

Small-craft operators are advised to use extreme caution in the vicinity of SEVEN-FOOT KNOLL LIGHT. Waves to twelve feet have been reported generated by larger vessels transiting the adjacent channels.

FISH TRAP AREAS

Fish trap areas and buoys marking these areas are not shown on this chart. See large scale charts.

CAUTION

This chart is not intended for use in navigating the tributaries of Chesapeake Bay and the aids to navigation maintained by the U.S. Coast Guard are not charted in those waters.

For detailed information use large scale charts.

CHESAPEAKE BAY BRIDGES

CHESAPEAKE CHANNEL SPANS
HOR CL 1500 FT
VERT CL 186 FT

3 fixed white lights are at the center of the southern span; over fixed green range lights.

EASTERN CHANNEL SPANS
HOR CL 690 FT
VERT CL 58 FT

Fixed green range lights mark the center of the southern span.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 3. Additions or revisions to Chapter 2 are published in the Notices to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, VA, or at the Office of the District Engineer, Corps of Engineers in Baltimore, MD.

Refer to charted regulation section numbers.

Additional general instructions supplementing 207.100 may be found in Chapter 7, U.S. Coast Pilot 3.

ARTICULATED AIDS

An articulated aid to navigation consists of a pipe structure that oscillates around a universal coupling connected to a sinker. The structure is kept upright by the buoyancy of a submerged flotation chamber. It is designed primarily to mark narrow channels in depths of up to 60 feet. All articulated aids are labelled "*Art*".

NOTE C
CHESAPEAKE BAY CHANNELS

The controlling depth in the channels north of the Chesapeake Bay Bridge (38°59′30″N; 76°22′30″W) are shown on tabulations printed on large scale charts and are not indicated hereon.

NOTE D

Tolchester Sector Lights A and B are each equipped with a fixed light divided into sectors as follows:

Light A, red sector - from 001.5° to 046°; white sector - from 046° to 047.5°; red sector - from 047.5° to 087.5°; white sector - from 087.5° to 090.5°; green sector - from 090.5° to 187°; obscured - from 187° to 001.5°.

Light B, red sector - from 032° to 062.5°; white sector - from 062.5° to 066.5°; red sector - from 066.5° to 120°; white sector - from 120° to 124.5°; green sector - from 124.5° to 218.5°; obscured - from 218.5° to 032°.

Tolchester Directional Light is equipped with a fixed white light down the channel centerline, visible only from 041.5° to 046.5°.

30th Ed., Mar. 19/94 ■

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 date shown in the lower left hand corner.

SOUNDINGS IN FEET

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST AND GEODETIC SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102

METERS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

(Chesapeake Bay, Northern Part)

SOUNDINGS IN FEET - SCALE 1:197,250

DMA STOCK # 12ACO12260 ED. # 30

LITIGATION/COPY