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 Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910 - 3282.

Formerly C&GS 545. 1st Ed. June 1921 C-1942-566

Nautical Chart Catalog No. 1, Panel D

UNITED STATES - EAST COAST
MARYLAND
BALTIMORE HARBOR

Mercator Projection
Scale 1:15,000 at Lat. 39°14'
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

SOURCE

a	1978	NOS Surveys	1: 5,000
b	1976-95	Corps of Engineers Surveys	
c	1995	Private Survey	1: 2,400
d	1992	Private Survey	1: 1,200

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Charted hydrography may originate from these and prior surveys.

Nautical Miles
Yards

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

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, Fifth Coast Guard District in Portsmouth, Virginia, or at the Office of the District Engineer, Corps of Engineers in Baltimore, Maryland.
Refer to charted regulation section numbers.

BALTIMORE HARBOR CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 1995.

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SOUNDING IN FEET AT MEAN LOWER LOW WATER DATUM: LEFT OUTSIDE (FEET)	LEFT INSIDE (FEET)	RIGHT INSIDE (FEET)	RIGHT OUTSIDE (FEET)	DATE OF SURVEY	PROJECT DIMENSION: WIDTH (FEET)	LENGTH (FEET)	DEPTH BELOW MLLW (FEET)
BREWERTON CHANNEL	44[2]	51.3	49.6	44[2]	9-95	700	3.06	50
BREWERTON ANGLE	44[1]	50.3	50.6	42[3]	1-95	700 NW	5.74	50
FORT MCHENRY CHANNEL	44[1,2]	48.1	48.3	44[1,2]	1-95	700	3.77	50
FERRY BAR CHANNEL:								
EAST SECTION	39.3	39.7	41.4	39.4	1-95	400	1.23	40
CURTIS BAY CHANNEL	41.5	46.4	47.5	41.5	2-95	400-570	1.66	40
CURTIS BAY CHANNEL:								
EAST CHANNEL	39.6 f	47.5	46.7	48.1	1-95	600	0.99	40
EAST CHANNEL TURNING BASIN	41.4	46.4	46.2	46.2	1-95	400-600	0.19	40
WEST CHANNEL	39.2	39.9	40.1	39.3	2-95	600	0.57	40
WEST CHANNEL TURNING BASIN	40[2]	39.6	39.0	39.3	2-95	600-1000	0.26	40

1. ALONG EDGE OF CHANNEL.
2. 39.4 FT SOUNDING ON CHANNEL EDGE AT 76° 13'47"N
NOTE - CONSULT THE COPY OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

CAUTION
BASCULE BRIDGE CLEARANCES
For bascule bridges, whose spans do not open to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance

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).

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.

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.

Baltimore, Md.	KEC-83	162.40 MHz
Washington, D.C.	KHB-36	162.55 MHz
(Manassas, Va.)		

SMALL CRAFT WARNINGS
During the boating season Small-craft warnings will be displayed from sunrise to sunset when winds 18 knots or greater are underway in Maryland waters of the Chesapeake Bay and tributaries.

TIDAL INFORMATION

Place Name	(LAT/LONG)	Height referred to datum of soundings (MLLW) Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
		feet	feet	feet	feet
Fort Carroll	(39°13'N/76°31'W)	1.4	1.3	0.2	-2.0
Baltimore, Fort McHenry	(39°16'N/76°35'W)	1.7	1.6	0.2	-3.0
Fells Point	(39°17'N/76°35'W)	1.8	1.5	0.3	-5.0

(396)

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

Aids to Navigation (are white unless otherwise indicated):

AERO aeronautical	G green	Mo morse code	R TR radio tower
Al alternating	Ob obscured/ob/ock	N Nun	Ra/ racon
Bk black	Iso isophase	OBSC obscured	s seconds
Bn beacon	LT HO lighthouse	Or 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	Mo marker	Ra Ref radar reflector	WHIS whistle
		R Bn radiobeacon	Y yellow

Bottom characteristics

Bldrs 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	
Wk wreck, rock, obstruction or shoal swept clear to the depth indicated			
Rocks that cover and uncover, with heights in feet above datum of soundings			
COLREGS International Regulations for Preventing Collisions at Sea, 1972			

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

Nautical Miles
Yards

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging or trawling.
Covered wells may be marked by lighted or unlighted buoys.

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 0.367" northward and 1.128" eastward to agree with this chart.

ANCHORAGE AREAS
110.158 (see note A)
Limits and assigned numbers of anchorage areas are shown in magenta

A — DEAD SHIP ANCHORAGE
1 2 3 / 4 5 6 — GENERAL ANCHORAGES

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:
(A)Accurate location) c(Approximate location)

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.

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.

PLANE COORDINATE GRID
(based on NAD 1927)
The Maryland State Grid is indicated on this chart at 10,000 foot intervals thus: -+-
The last three digits are omitted.

HEIGHTS
Heights in feet above Mean High Water.

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

(CONTINUED ON CHART 12278)

(CONTINUED ON CHART 12278)

Error nautline 76.07cm. N.S. ± 100.00cm. E.W.?

45th Ed., Apr 13/96■
12281

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.

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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