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1861
Chart B

No. 13



U.S. COAST SURVEY
A.D. BACHE Supdt.
PRELIMINARY CHART OF
PATUXENT RIVER
MARYLAND

LOWER PART

Triangulation by J.S. WILLIAMS, J.E. HILGARD
and Lieut. J.P. ROY U.S.A. Ass'ts.
Hydrography by the Parties
under the command of Lt. Comdr. S.P. LEE and Comdr. W.T. MUSE
U.S.N. Assistants
Scale 6000
1859



W. Palmer Capt. Topg. Engrs.
See C.S. in charge of Office.

The Triangulation was executed in 1846 & 1857
The Hydrography do do 1848 & 1857
Variation of the Magnetic Needle in 1859 (approx.) 2° 07' W.
Present annual increase about 2' 5"



SAILING DIRECTIONS

COMING FROM THE SOUTHWARD
With Cedar Point bearing West distant about 2 miles, steer N.W. until Cove Point Light House bears N.E. by W. and the Round Tree on Drum Pt. bears West, when steer for Round Tree until the Dwelling House on Hog Island bears S.W. then steer S.W. by W. for Wicks Store (which stands on the South Shore just under the bank next above the Wood Yard) until opening Summersville's large Brick House on Point Patuxent, when steer W. for Hopewell's House and Pipers at Ferry Wharf, until Sandy Point bears North, which will clear Sandy Point Shoal, then steer N.W. 1/2 N. for the Brick House on Point Patuxent until Town Point bears S.W. and Shell's House (just open to the Southward of Point Patuxent) bears W. S.W. by W., when steer for the latter until opening the River North of Point Patuxent, when haul short round that Point (all dangers being visible) and steer N.E. until the Brick House on Point Patuxent bears S.S.E., when keep away to N.W. by W. passing between the Hawks Nest off Cocks Creek and the Plate off Helen's Creek, until above Half Pine Point when Hoops Three Topers will bear N.E., then steer N.W. 1/2 N. until passing St. Leonard's Creek, when the river becomes too tortuous and narrow for Sailing Directions to be of service and the chart must be the chief guide.

COMING FROM THE NORTHWARD

With Cove Point Light House bearing West distant 1 1/2 miles, steer S. by W. for Cedar Point, until Round Tree bears West, when proceed as above directed.
PATUXENT RIVERS
Vessels usually anchor large vessels with Cove Point Light House bearing North. Small vessels however run in and anchor under Drum Point.
The Courses and Bearings are Magnetic and the Distances are in Nautical miles.

LIGHT HOUSE

Name	Latitude	Longitude	Height of Light	Color of Light	Period of Flash	Distance from Shore
Cove Point Light House	38° 23' 00" N	76° 22' 36" W	56' 30"	White	1" 3"	46 Ft.

TIDES

Corrected Establishment of Drum Point	1 st XVT
Rise of Highest Tide observed above the plane of reference	3.1 Ft.
Fall of Lowest Tide do below do	0.9 "
Fall of Mean Low Water of Spring Tides below do	0.2 "
Height of Mean Low Water of Neap Tides above do	0.4 "
Mean Rise and Fall of Tides	1.4 "
Mean do of Spring Tides	1.9 "
Mean do of Neap Tides	0.7 "
Mean Duration of Rise reckoning from the middle of one	5 ^h 48 ^m
Mean do of Fall do to the middle of the next	6 45
Mean do of Stand	0 25

SOUNDINGS

The Soundings are expressed in feet to 10 feet, or within the dotted surfaces, beyond them in fathoms, and show the depth at mean low water—the plane of reference. The dotted surfaces beyond low water mark represent the bottom within the respective depths of 6, 12 and 18 feet. The characteristic soundings only are given on the map, they are selected from the numerous soundings taken in the survey, so as to represent the figure of the bottom.

Abbreviations used in the bottoms
M. for Mud brk. for hard
S. Sand st. salt
Sh. Shells brk. broken
bu. for blue

Note: The principal materials and their qualities are represented by larger letters than the subsidiary.