CHESAPEAKE BAY

SHEET No. 4

FROM THE POTOMAC RIVER TO THE ENTRANCE TO POCOMOKE SOUND.

From a Trigonometrical Survey

under the direction of A.D.BACHE Superintendent of the

SURVEY OF THE COAST OF THE UNITED STATES

Triangulation by E.BLUNT and S.A.GILBERT Assistants

Topography by R.D.CUTTS .USEIB LIEUT.ADAMS Assistants and S.A.WAINWRIGHT Sub-Assistant

Hydrography by the parties under the command of

Lieuts.Comdg.S.P.LEE W.CMUSE R.WAINWRIGHT .J.LALMY & R.F.SANDS U.S.N.Assts.

Published in 1859

Scale 80,000

Statute Miles

Scale of Yards

Nautical Miles

SAILING DIRECTIONS

Bound to Baltimore. *Coming upon the chart on the charted course with Smith's Point Light Vessel bearing N.W. one N.E. and you will pass a mile and a quarter to the Eastward of the Light Vessel with soundings varying from 7 to 6 and 5½ fathoms. When almost Smith's Point Light Vessel, change course as by chart to N by W1/2 W and run upon that course in water first deepening from 30 to 45 fathoms, and then shoaling again to 7 fathoms, muddy bottom, until Prince Leobold Light House bears West distant ¼ mile, when haul up to N by W which will carry you one and a half miles to the Eastward of Cove Point Light House with soundings varying but little from 7 fathoms.*

If bound, observe that the chart shows the Western shore of the Bay to be generally deep and regular in its soundings; but that the Eastern side has many shoals and flats making well out into the Bay which should be approached with care by a vessel of large draft.

If bound into the Potomac River. When Smith's Point Light Vessel bears South, distant 2¼ miles, steer N.W by W and run in for the channel course of the river, then be governed by the sailing directions on the chart for the Potomac River.

From Potomac River up the Bay. When in 12 fathoms, Prince Leobold Light bearing North distant 2¼ miles, steer N.E.b. until Point Leobold Light bears West, distant 3½ miles, when steer N.E., Point No Point bearing West distant 2¼ miles, stand up the Bay as before directed.

Bound into Hooper's Straits. When in 7 fathoms, Point Leobold Light bearing West distant 4 miles, steer N. N.E.½E. until Hooper's Straits Light Vessel bears East, distant 2¼ miles, when cross the bar on an E by N course.

The Courses and Bearings are Magnetic and the Distances are in Nautical miles.

LIGHT HOUSES

Name and Locality	Lat.	Long.	Elevation of Lens above Mean Water	Time of Revolving	Interval of Flash	Height above Low Water	Distance from which seen
Point Lookout, Ent. to Potomac R.	38° 00' 00"	76° 22' 00"	37 feet	Fixed		34 Ft.	16. S
Fig Point, on Smith's I.	38° 00' 30"	76° 06' 00"	31 feet			30 "	10 6
Watts I.E. side of Tangier Sd.	38° 00' 30"	75° 57' 30"	32 feet			26 "	10 S

Lat. and Long. of Middle of Channel

LIGHT VESSELS

Smith's Point Light Vessel *marks the Shoal at the mouth of the Potomac river is of Lead color with 2 Fixed lights 35 and 39 feet above the load of the sea visible 9 nautical miles. Fog Bell and Horn.*

Stave Island Light Vessel at the entrance to Little Annemessic river is of Cream color with Fixed light 30 feet above the load of the sea visible 10 ½ nautical miles. Fog Bell and Horn.

TIDES

Corrected Establishment Point Lookout	0h XXIIIm
Rise of Highest Tide observed above the plane of reference	2. 6 Ft.
Fall of Lowest Tide ... do. ... below ... do.	1. 8 "
Fall of Mean Low Water of Spring Tides below ... do.	2. 8 "
Height of Mean Low Water of Neap Tides above ... do.	0. 5 "
Mean Rise and Fall of Tides	1. 5 "
Mean ... do. ... of Spring Tides	1. 9 "
Mean ... do. ... of Neap Tides	0. 7 "
Mean Duration of Rise, Reckoning from the middle of one	5h 59m
Mean ... do. ... of Fall ! stand to the middle of the next	6h 26m
Mean ... do. ... of Stand.	0h 35m

For Tidal Currents see Table on Sheet of Charts No. 3.

The Soundings are expressed in feet to 31 feet or within the dotted ... beyond them in fathoms, and above the depth at mean low water the plane of reference. The ... dotted ... beyond low water mark represent the bottom within the respective depths of 6.12 and 31 feet. The characteristic soundings only are given on the map. They are selected from the numerous soundings taken by the survey, so as to represent the figure of the bottom.

The Triangulation was executed in ... 1857 '58 & '59

The Topography ... do. ... do. ... 1849 '50 '52 '53 '54 '55 & '56

The Hydrography ... do. ... do. ... 1849 '51 '52 '55 & '57

Variation of the Magnetic Needle at Smith's Point Light Vessel in December 1859 (computed) ... 1° 55' W.

Present annual increase 2'

Abbreviations used in the bottoms of this Map

Materials (in Capitals)	Colors or Shades (in small letters)		Other qualities (also small Letters)	
M. for Mud.	*bk. for black*		*hrd. for hard*	
S. ... Sand.	*wh. ... white*		*stf. ... soft*	
G. ... Gravel	*gy. ... grey*		*bu. ... blue*	
Sh. ... Shells	*bn. ... blue*		*crs. ... coarse*	
P. ... Pebbles	*dk. ... dark*		*brk. ... broken*	
Sp. ... Spoaks	*lt. ... light.*			
C. ... Clay				

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

RAREBK
VK
982
.C5
B3
1861
Chart J

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