RAREBK
VK
982
.P6
B3
1861
Chart A
pt.1

No. 17

POTOMAC RIVER

(in four sheets)

SHEET No. I

FROM ENTRANCE TO PINEY POINT

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 R.D. CUTTS and J. FARLEY Assists.

Topography by R.D. CUTTS JOHN SEIB LHULL ADAMS Assists. and S.A. WAINWRIGHT Sub-Assist.

Hydrography by the Parties under the command of

Lieut. Comdg. S.P. LEE and Comdr. W.T. MUSE U.S.N. Assists.

Scale 60,000

1862

The Triangulation was executed in ..... *1849 57 & 58*
The Topography ..... *do.* ..... *in* ..... *1849 50 56 58 59 & 60*
The Hydrography ..... *do.* ..... *in* ..... *1849 50 59 & 60*

SOUNDINGS

The Soundings are expressed in feet, 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 OF BOTTOMS

Materials in Capitals	Colors or Shades two small letters	Other qualities three small letters
M. for Mud	*bk. for black*	*hrd. for hard*
S. - Sand	*gy. - grey*	*sft. - soft*
G. - Gravel	*bu. - blue*	*fne. - fine*
Sh. - Shells	*dk. - dark*	*crs. - coarse*
P. - Pebbles	*lt. - light*	*brk. - broken*
Sp. - Specks		
C. - Clay		

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

LIGHT HOUSES

Name	Latitude North	Longitude West from Greenwich Observatory In arc	In time	Fixed or Revolving	Height above Level of Sea	Distance visible in Nautical miles
Point Lookout Lt. Ho.	38°02'15"7	76°19'01"5	5h 05m 16s9	*Fixed*	37 ft.	11
Piney Point Lt. Ho.	38 08 03.4	76 31 29.2	5 06 05.9	"	35 "	11

Variation of the Magnetic Needle in December 1862 ..... 2° 0' W.
Present annual increase 2½'

LIGHT VESSEL

Smiths Pt. Lt. Vessel, *3 miles E. by S. From Smith's Point, is of Local color with 2 lights 35 and 38 feet above the level of the sea, visible 11 nautical miles, Fog Bell and Horn.*

TIDES

Corrected Establishment, Point Lookout ..... XXII^h
Mean Rise and Fall of Tides ..... 1.4 ft.
Mean ..... *do.* ..... *of Spring Tides* ..... 1.9 -
Mean ..... *do.* ..... *of Neap Tides* ..... 0.7 -
Rise of Highest Tide observed above the plane of reference ..... 2.6 -
Fall of Lowest Tide ..... *do.* ..... *below* ..... *do.* ..... 1.8 -
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 Duration of Rise } *Reckoning from the middle of one* 5h 59m
Mean ..... *do.* ..... *of Fall* } *stand, to the middle of the next* 6 19
Mean ..... *do.* ..... *of Stand* 0 35

SAILING DIRECTIONS

Bound into the Potomac River from the Southward. *Being in 16 fathoms water, bring Smith's Pt. Lt. Vessel to bear South distant 2¾ miles, with Smith's Pt. bearing S.W. by W. and Point Lookout Lt. Ho. bearing N.W. ¼ N. the course is N.W. by W. for 8 miles, until Pt. Lookout Lt. Ho. bears N. by E. ½ E. distant 2¾ miles, when the course is N.N.W. for 13½ miles, until Piney Pt. Lt. Ho. bears N.E. ¼ N. distant 1½ miles, and Ragged Pt. bears N.W. by W. ¼ W. distant 3¾ miles, then follow directions on Sheet No 2.*

From the Northward. *Being in 6 fathoms water with Point Lookout Lt. Ho. bearing W.S.W. distant 2¾ miles, the course is S.W. for 4½ miles, until Point Lookout Lt. Ho. bears N. by E. ½ E. distant 2¾ miles, when, follow directions above.*

If bound into the St. Mary's River. *When Point Lookout Lt. Ho. bears N. by E. ½ E. distant 2½ miles, steer N.W. ¼ N. towards Cherryfield Pt. (on the West side of the St. Mary's) which, when in sight run for, keeping it on this bearing until Rits Pt. bears E. ¾ S. and the Southeast end of St. George's Island bears W. ¼ N. when Windmill Pt. will be on with Portobello Pt. bearing North, run up the river on this course, keeping the bearing and range on, until up with Priests Pt., then keep the middle of the river.*

For the entrance of Coan, and Yeocomico Rivers the chart is the best guide.

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

Statute Miles

Nautical Miles