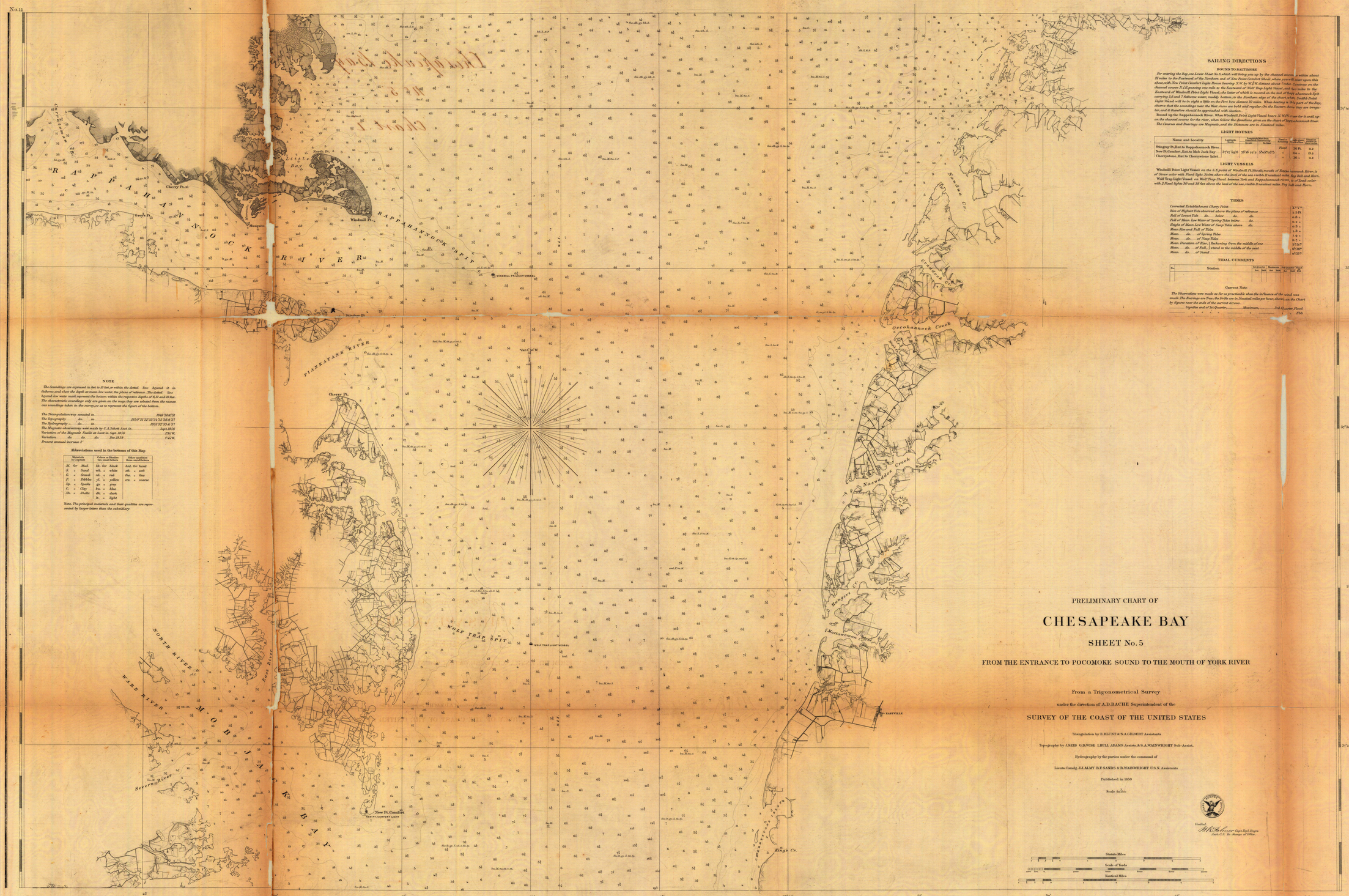
No. 11



SAILING DIRECTIONS

BOUND TO BALTIMORE

For entering the Bay, see Lower Sheet No.6, which will bring you up by the channel entrance, is within about 20 miles to the Eastward of the Northern end of New Point Comfort Shoal, where you will enter upon this sheet, with New Point Comfort Light House bearing N.W. by W. ½ W. distant about 7 miles; continue on the channel course N.1/4 E. passing one mile to the Eastward of Wolf Trap Light Vessel, and two miles to the Eastward of Windmill Point Light Vessel, the latter of which is moored on the bell of Swash shoal on Swash Point carrying 5.6 and 7 fathoms water, muddy bottom; in the Northern edge of the chart when Swash Point Light Vessel will be in sight a little on the Port bow distant 10 miles. When bearing to this part of the Bay, observe that the soundings near the West shore are bold and regular. On the Eastern shore they are irregular, and it therefore should be approached with caution.

Bound up the Rappahannock River. When Windmill Point Light Vessel bears N.W.½W. (our for it until up on the channel course for the river, when follow the directions given on the chart of Rappahannock River.

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

LIGHT HOUSES

Name and Locality	Latitude North	Longitude West from Greenwich in Time	Longitude West from Washington	Fixed or Revolving	Height above water in feet	Distance in Nautical miles
Stingray Pt., East side Rappahannock River	37°6′.5	5h 9s	76°46′.8	2h 50m 55s	Fixed	36 ft.	11.2
New Pt. Comfort, East side Mob Jack Bay					"	50 "	15.2
Cherrystone, East side Cherrystone Inlet					"	36 "	11.2

LIGHT VESSELS

Windmill Point Light Vessel, on the S.E. point of Windmill Pt. Shoals, mouth of Rappahannock River, is of Straw color with Fixed light 34 feet above the level of the sea visible 11 nautical miles. Bay Bell and Horn.

Wolf Trap Light Vessel, on Wolf Trap Shoal, between York and Rappahannock rivers, is of Lead color with 2 Fixed lights 30 and 38 feet above the level of the sea, visible 11 nautical miles. Fog bell and Horn.

TIDES

Corrected Establishment Cherry Point	X.1′.7″
Rise of Highest Tide observed above the plane of reference	5.3 ft
Fall of Lowest Tide do. below do. do.	0.8 "
Fall of Mean Low Water at Spring Tides below do.	0.3 "
Height of Mean Low Water of Neap Tides above do.	0.3 "
Mean Rise and Fall of Tides	1.3 "
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 8m
Mean do. of Fall, } extend to the middle of the next	6h 36m
Mean do. of Stand }	0h 20m

TIDAL CURRENTS

No.	Station	1st Quarter Ebb	1st Quarter Flood	Maximum Ebb	Maximum Flood	3rd Quarter Ebb	3rd Quarter Flood

Current Note

The Observations were made as far as practicable when the influence of the wind was small. The Bearings are True, the Drifts are in Nautical miles per hour, shown on the Chart by figures near the ends of the current arrows.

_____ Signifies end of 1st Quarter, _____ Maximum, _____ 3rd Quarter Flood.
" " " " Ebb.

NOTE

The Soundings are expressed in feet to 10 feet, or within the dotted line beyond it in fathoms, and show the depth at mean low water, the plane of reference. The dotted line 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.

The Triangulation was executed in	*1849 50 51*
The Topography do. in	*1850 51 52 53 54 55 56 & 57*
The Hydrography do. in	*1853 52 55 & 57*
The Magnetic observations were made by C.A. Schott Asst. in	*Sept. 1858*
Variation of the Magnetic Needle at Scott in Sept. 1858	*1°7′ W.*
Variation do. do. do. Dec. 1859	*1°44′ W.*
Present annual decrease 2′	

Abbreviations used in the bottoms of this Map

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	wh. " white	sft. " soft
G. " Gravel	rd. " red	fne. " fine
P. " Pebbles	yl. " yellow	crs. " coarse.
Sp. " Spouts	gy. " gray	
Cl. " Clay	bu. " blue	
Sh. " Shells	dk. " dark	
	lt. " light	

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

PRELIMINARY CHART OF

CHESAPEAKE BAY

SHEET No. 5

FROM THE ENTRANCE TO POCOMOKE SOUND TO THE MOUTH OF YORK RIVER

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 & S.A. GILBERT Assistants

Topography by J. SEID O.D. WISE I. BELL ADAMS Assists. & S.A. WAINWRIGHT Sub-Assist.

Hydrography by the parties under the command of

Lieuts. Comdg. J.J. ALMY R.F. SANDS & R. WAINWRIGHT U.S.N. Assistants

Published in 1859

Scale 1/80000

Verified
M.K. Bahner Capt. Topl. Engrs.
Asst. C.S. In charge of Office.

Statute Miles

Scale of Yards

Nautical Miles

RAREBK
VK
982
.C5
B3
1861
Chart 1

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