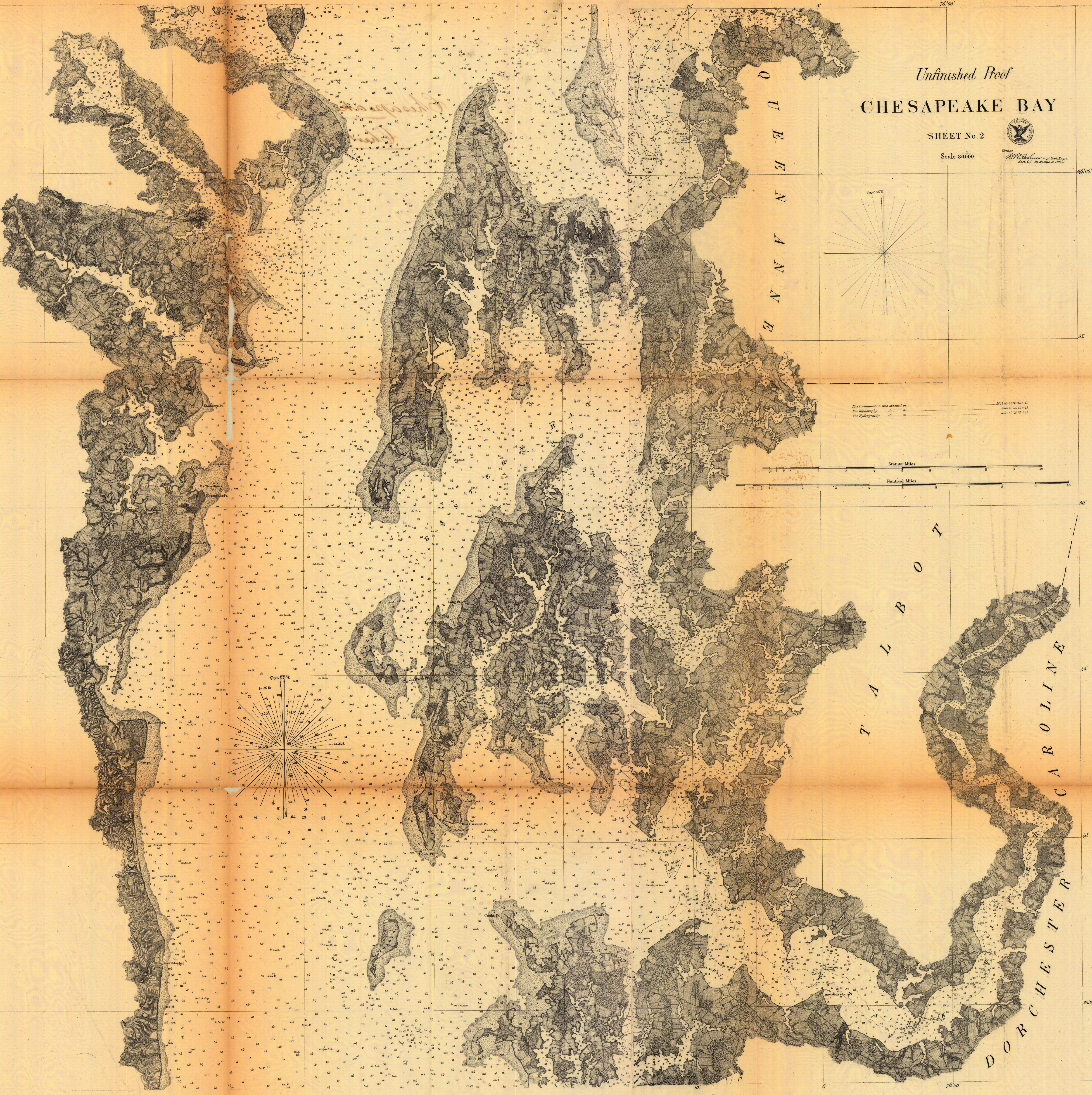
Unfinished Proof

CHESAPEAKE BAY

SHEET No. 2

Scale $\frac{1}{80.000}$

Verified W. R. Palmer Capt. Topl. Engrs. Asst. C.S. In charge of Office.



SAILING DIRECTIONS

Cove Pt. bearing West, distant 1½ miles, steer N. by W. ½ W. (N. 20° W.) until Sharp's Id. Light bears East, distant 4¼ miles, thence steer N. ¼ E. (North) until the North Point of Poplar Id. bears E. ¾ N. distant 4½ miles, and the Cupola near Fairhaven Pier W. by S. distant 4¾ miles, then steer N. by E. ¾ E. (N. 16° 40' E.). This course will make the Upper 5 fms. Buoy, off the entrance to the Patapsco River.

Bound into Annapolis. *In 8 fathoms water, Tally's Pt. bearing N. W. by N. stand in on a N. W. ¼ N. (N. 42° W.) course, leaving the Buoy off Tally's Pt. Shoal, ¼ of a mile on the Port hand. In 3½ fathoms water, with Tally's Pt. bearing S. S. W. ¾ W. (West), anchor in Annapolis Roads; but if bound into the Severn River, follow the directions on the Harbor Chart.*

DANGERS

On the Western Coast the shoal water extends for 1½ miles off shore from Holland Pt., Curtis' Pt., Saunder's Pt., Thomas' Pt., Tally's Pt. and Stony Pt. The other parts of the Western Coast may be approached within one mile.

On the Eastern side the shoal water extends 1½ miles off from Sharp's Id., Poplar Id. and Love Pt. In standing to Eastward it is safest to tack when in from 9 to 10 fms. as the water shoals suddenly.

Light Houses and Beacons

Name and Locality	Latitude	Longitude West from Greenwich Observatory In arc	In time	Fixed or Revolving	Interval of Flash	Height above Level of Sea	Distance visible in Naut. miles
Greenbury Pt. Ent. to Annapolis Harbor				Fixed		50 Ft.	12.5
Thomas' Pt. Mouth of South River	38° 54' 25".3	76° 26' 53".5	5h 05m 47s.6	"		63 "	13.5
Sharp's I.	38° 37' 43".8	76° 21' 55".3	5h 05m 27s.7	"		41 "	11.7

TIDES

Corrected Establishment Annapolis	IVh XXXVIIIm
Rise of Highest Tide observed above the plane of reference	3.2 Ft.
Fall of Lowest Tide ... do. ... below ... do. ... do.	2.4 "
Mean Rise and Fall of Tides	0.9 "
Mean ... do. ... of Spring Tides	1.0 "
Mean ... do. ... of Neap Tides	0.8 "
Mean Duration of Rise (Reckoning from the middle of one)	6h 11m
Mean ... do. ... of Fall (Stand to the middle of the next)	6h 15m
Mean ... do. ... of Stand	0h 32m

TIDAL CURRENTS

No.	Station	1st. Quarter Set	1st. Quarter Drift	Maximum Set	Maximum Drift	3rd. Quarter Set	3rd. Quarter Drift	Flood or Ebb
1	Off Mouth of Chester River	S. 09° E. S. 81° W.	0.6 0.7	S. 18° E. S. 72° W.	0.9 0.9	S. 36° E. S. 67° W.	0.8 0.7	Flood Ebb
2	Mouth of Chester River	S. 02° E. N. 27° E.	0.5 0.6	S. 10° E. N. 22° E.	0.9 1.0	S. 14° E. N. 19° E.	0.4 0.7	Flood Ebb
3	Off Sandy Point	N. 26° E. S. 12° E.	0.5 0.8	N. 16° E. S. 04° E.	0.9 1.0	N. 12° E. S. 01° W.	0.6 0.7	Flood Ebb
4	Off Annapolis Roads	N. 13° W. S. 28° W.	0.6 0.7	N. 13° W. S. 22° W.	0.9 1.0	N. 13° W. S. 21° W.	0.7 0.7	Flood Ebb
5	Off Thomas' Point	N. 17° E. S. 16° W.	0.5 0.6	N. 34° E. S. 27° W.	0.5 0.9	N. 34° E. S. 11° W.	0.5 0.5	Flood Ebb
6	Eastern Bay between Kent Pt. and Wade's Pt.	N. 31° E. S. 38° W.	0.3 0.2	N. 29° E. S. 41° W.	0.4 0.3	N. 26° E. S. 57° W.	0.1 0.2	Flood Ebb
7	Eastern Bay to the Westward of Tilghman's Pt.	N. 28° E. S. 55° W.	0.4 0.4	N. 53° E. S. 45° W.	1.1 1.0	N. 54° E. S. 36° W.	0.6 0.7	Flood Ebb
8	Eastern Bay between Tilghman's Pt. and Wye River	S. 10° W. N. 24° W.	0.2 0.2	S. 09° W. N. 01° W.	0.4 0.4	S. 18° W. N. 06° W.	0.2 0.2	Flood Ebb
9	Between Poplar Id. and Franklin Pt.	N. 33° E. S. 34° W.	0.2 0.3	N. 22° E. S. 27° W.	0.4 0.4	N. 40° E. S. 22° W.	0.3 0.3	Flood Ebb
10	Off Holland Point	N. 13° W. S. 11° W.	0.3 0.3	N. 05° E. S. 11° W.	0.4 0.6	N. 05° E. S. 17° W.	0.2 0.5	Flood Ebb
11	Off Mouth of Choptank River	N. 80° E. S. 82° W.	0.5 0.4	N. 86° E. West	0.8 0.9	N. 89° E. S. 83° W.	0.5 0.5	Flood Ebb
12	To the Eastward of Sharp's Id.	N. 32° E. S. 54° W.	0.6 0.4	N. 38° E. S. 48° W.	0.9 1.0	N. 20° E. S. 43° W.	0.5 0.7	Flood Ebb
13	To the Southward of Sharp's Id.	N. 34° E. S. 21° W.	0.8 0.9	N. 18° E. S. 06° W.	1.1 1.3	North S. 09° E.	0.5 0.8	Flood Ebb

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

Variations of the Magnetic Needle

Locality	From Observations in	Observer	Variation West	Variation West Dec. 1860
Taylor	*May ... 1845*	*Lieut. T. J. Lee Asst. C.S.*	2° 14'.4	2° 47'
"	*May ... 1847*	*Capt. T. J. Lee " "*	2° 18'.0	
Kent Island (1)	*July ... 1849*	*J. Hewston*	2° 30'.2	2° 55'
Kent Island South Base	*June ... 1845*	*Lieut. T. J. Lee Asst. C.S.*	2° 24'.3	2° 57'
Marriott	*May & June ... 1846*	" " " "	2° 09'.4	2° 37'
"	*June ... 1849*	*Capt. T. J. Lee " "*	2° 05'.0	
Oxford	*August ... 1856*	*C. A. Schott Asst. C.S.*	2° 41'.3	2° 52'

Present annual increase 2'

NOTE

The Courses and Bearings without the brackets are Magnetic, those within are True. The distances are in Nautical miles. The Soundings are expressed in feet to 18 feet or within the dotted lines, beyond them in fathoms, and show the depth at mean low water—the plane of reference. The dotted lines 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 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*
Sh. " *Shells*	*rd.* " *red*	*stk.* " *sticky*
Sp. " *Specks*	*yl.* " *yellow*	*brk.* " *broken*
C. " *Clay*	*gy.* " *grey*	
	bu. " *blue*	
	dk. " *dark*	
	lt. " *light*	

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

RAREBK
VK
982
.C5
B3
1861
Chart L

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