RAREBK
VK
982
.N8
B3
1861
Chart N

Electrotype Copy No. 2 by O. Matthot U.S.C.S.

PRELIMINARY CHART OF LOWER PART OF CAPE FEAR RIVER NORTH CAROLINA FROM NEAR FEDERAL POINT TO WILMINGTON

From a Trigonometrical Survey
under the direction of A.D.BACHE Superintendent of the
SURVEY OF THE COAST OF THE UNITED STATES

Triangulation and Topography by C.P.BOLLES Assistant
Hydrography by the party
under the command of Lieut.J.N.MAFFITT U.S.N. Assist.

Scale $\frac{1}{30000}$

1856

Verified
W. L. Smith Capt. Topl. Engrs.
Asst. in charge of Office.

CAPE FEAR RIVER
IN THE VICINITY OF
WILMINGTON
Scale 20000
1856

NOTE

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.

Light Houses

Name and Locality	Latitude	Longitude West from Greenwich in arc	Longitude West from Observatory in time	Fixed or Revolving	Height above Level of Sea	Distance visible in Stat. miles
Orton's Pt. Lt. Ho.	34° 03′ 25″	77° 56′ 03	5h 11m 44s·7	Fixed	25 Ft.	10.0
Campbell's L. do.	34° 06′ 56″	77° 56′ 02·9	5h 11m 44s·3	do.	25 .	10.0

The Triangulation was executed in 1853
The Topography do. in 1853
The Hydrography do. in 1854
The Astronomical & Magnetic observations were made by A.D.Bache Superintendent and C.W.Dean Assist. in May & June 1854
Variation of the Magnetic Needle at Wilmington in June 1854 1°15′ E.

TIDES

	Orton Lt.Ho.	Wilmington
Corrected Establishment	VIIh IIm	IXh VIm
Rise of Highest Tide observed above the plane of reference	6.0 Ft.	4.7 Ft.
Fall of Lowest Tide do. below do.	1.5 .	1.2 .
Fall of Mean Low Water of Spring Tides below do.	0.3 .	0.3 .
Height of Mean Low Water of Neap Tides above do.	0.8 .	0.2 .
Mean Rise and Fall of Tides	4.0 .	2.7 .
Mean do. of Spring Tides	4.8 .	3.1 .
Mean do. of Neap Tides	2.9 .	2.2 .
Mean Duration of Rise \ Reckoning from the middle of one	5h 23m	4h 53m
Mean do. of Fall \ stand to the middle of the next	7h 03m	7h 40m
Mean do. of Stand	0h 24m	0h 31m

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	*gy. . grey*	*stf. . soft*
G. . Gravel		*fne. . fine*
Sh. . Shells		*brk. . broken*
Sp. . Spoks		

Note. The principal materials and their qualities are represented by larger letters than the subsidiary.
In the description of Buoys B. signifies black and R. red.

Statute Miles
Nautical Miles

Var. 1°15′ E.

Ruins of OLD BRUNSWICK

Sugar Loaf

Reduced & Drawn by F.D.Stewart & F.Fairfax

Engraved by J.V.N.Throop & A.M.Macdol