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# BEAUFORT HARBOR

## NORTH CAROLINA

From a Trigonometrical Survey

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

SURVEY OF THE COAST OF THE UNITED STATES

Triangulation by C.P. BOLLES Assistant & A.S.WADSWORTH Sub-Assist.

Topography by H.L.WHITING Assist.& A.S.WADSWORTH Sub-Assist.

Hydrography by the Parties under the Command of

Lieut.Comdg. J.N.MAFFITT & C.R.P.RODGERS U.S.N. Assists.

Published in 1857

Scale 20000

Light Houses and Beacons.

| Name | Latitude | Longitude W. from Greenwich (Observed or Assumed) | Fixed or Revolving | Interval of Flash | Height above limit of Sea | Distance at which visible in Nautic. Miles |
|---|---|---|---|---|---|---|
| Cape Lookout Lt. Ho. | 34°37′ 26″.0 | 76°31′ 09″.4 | 57°.65′.64″.5 | Fixed | 10 Ft. | 16.7 |
| Bogue Banks | 34°41′ 16″.5 | 76°46′ 37″.8 | 57°.65′.64″.6 | " | 30 " | 12.5 |
| Fort Macon Beacon | 34°41′ 38″.5 | 76°41′ 47″.8 | 57°.65′.64″.6 | " | 30 " | 10.6 |

NOTE.

*The Chart Shows the hydrographic survey of Beaufort Harbor made by Lieut.Comdg. Maffitt U.S.N.Asst. in 1854 and the Resurvey of the Entrance made by Lieut. Comdg. C.R.P.Rodgers U.S.N.Asst. in 1857.*

SAILING DIRECTIONS.

*This Harbor is 84 miles N.N.W. of the outer Shoal of Cape Lookout, it is accessible with all winds except those from the N.and W. and affords safe anchorage.*

*On making the Flag Staff of Fort Macon, keep in 6 fms. water, until the White Square Tower in Beaufort bears N.N.W.½W. (N.20° 40′ W.) stand in upon this bearing for the outer Bar Buoy, which bears S.S.E.(S.67°.20′E.) from Fort Macon Flag Staff. Leave the outer Buoy a few yards on the Starboard hand, crossing the Bar by running directly from Buoy to Buoy. The Buoys are in the best water and must be kept close on board. When abreast of the third or inner conical Buoy steer N.N.by W.(N.8° W.) when Fort Macon Flag Staff bears S.W.½S.(S.23° W.) bearing the next Buoy off Shackleford spit and the Southern extremity of the Middle Ground, thirty yards on the Starboard hand. Fort Macon Pt. must not be approached nearer than half a cables length. When off the Government Wharf, anchor at will in 3 to 4 fms. water,muddy bottom. Generally the outline of the Channel may is clearly indicated by the shoal water and breakers on both sides, when entering on the flood keep nearer to the Bar-Breakers than those on the Starboard hand, and the more of that when entering on the ebb.*

*The channel is narrow and subject to frequent change, but the Buoys are carefully attended to and kept in position for the best water.No stranger should attempt to enter Beaufort Harbor at night.The Blue or Point Channel is not buoyed, and no stranger should attempt it; 6 feet can be carried through the Main Channel, and 7 feet through the Slue, at mean low water. Note The Buoys cannot be clearly distinguished from the outer Buoy ,and consequently afford no assistance in crossing the Bar.*

NOTE.

*The soundings are expressed in feet, to 10 feet or within the dotted surface, beyond there in fathoms and show the depth at mean low water., the plane of reference. The dotted surface beyond low water, mark represent the bottom within the respective depths of 6,12 and 18 feet. The characteristic sound-ings 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.*

*In the description of Buoys U.S. signifies Perpendicular Stripes. B.Black and R.Red.*

| | |
|---|---|
| Latitude of Court House Cupola | 34°.43′.05.0 |
| Longitude of do. West from Greenwich (Obs. in arc) date to | 76°.39′.26.2 |
| Longitude of do. do. in time) 1854. | 5h 06m 37s.9 |
| Variation of the Magnetic Needle in August 1857 | 0°.10′ W. |
| The Triangulation was executed in | 1850 & 54 |
| The Topography do. in | 1854 |
| The Hydrography do. in | 1854 & 57 |

TIDES.

| | |
|---|---|
| Corrected Establishment at Fort Macon | VIIh XXVIIm |
| Mean Rise and Fall of Tides | 2.8 ft |
| Mean do. of Spring Tides | 3.3 ft |
| Mean do. of Neap Tides | 2.2 ft |
| Mean Duration of Rise \ Reckoning from the middle of one | 6h 11m |
| Mean do. of Fall ) Stand to the middle of the next | 6h 10m |
| Mean do. of Stand | 0h 42m |

TIDAL CURRENTS

*Table of Current observations made in Beaufort Harbor and vicinity by Lieut.Comdg.J.N.Maffitt U.S.N. Assist. U.S.Coast Survey*

| No. | Locality | 1st Quarter Set | 1st Quarter Drift | Maximum Set | Maximum Drift | 3rd Quarter Set | 3rd Quarter Drift | Flood/Ebb |
|---|---|---|---|---|---|---|---|---|
| 1 | Off Fort Macon wharf | S.by E. | 1.5 | S.by E. | 2.5 | N.by W. | 1.5 | Flood |
| 2 | Off Shackleford Pt. | S.by E. | 1.5 | S.by E. | 2.5 | N.by W. | 1.5 | Flood |
| 3 | Off Shepards Pt.entrance to Bogue Sound | S.by E. | 1.5 | S.by E. | 2.5 | N.by W. | 1.5 | Flood |
| 4 | Newport Channel | S.W. | 1.5 | S.W. | 2.5 | N.E. | 1.5 | Flood |
| 5 | Bird Id. Channel | S.by W. | 1.5 | S.by W. | 2.5 | N.by E. | 1.5 | Flood |
| 6 | Off Macon Pt. | S.by W. | 1.5 | S.by W. | 2.5 | N.by E. | 1.5 | Flood |
| 7 | Off Middle Ground | S.W. | 1.5 | S.W. | 2.5 | North | 1.5 | Flood |
| 8 | do. | S.by W. | 1.5 | South | 1.5 | North | 1.5 | Flood |
| 9 | Channel way near Shackleford Pt. | S.by W. | 1.5 | S.by W. | 2.5 | N.by E. | 1.5 | Flood |
| 10 | Mouth of False Slue,off Shackleford Pt. | S.by W. | 1.5 | S.by W. | 2.5 | N.by E. | 1.5 | Flood |
| 11 | On Bar | S.by W. | 1.5 | S.by W. | 2.5 | N.by E. | 1.5 | Flood |

Current Note.

*The observations were made as far as practicable when the influence of the wind was small. The Drifts are in Nautical Miles per hour, and are shown on the Chart by the small figures near the ends of the current arrows.*

*Signifies end of 1st Quarter ——— Maximum ——— 3rd. Quarter Flood. Ebb*

SKETCH OF

LOOKOUT BIGHT

Scale 1/40000

Abbreviations used in the bottom of this Map.

| Materials in Capitals | | Colors or Shades Note color before letters | | Other qualities Note small letters | |
|---|---|---|---|---|---|
| M. | for Mud | bk. | for black | hrd. | for hard |
| S. | " Sand | gy. | " grey | stk. | " soft |
| G. | " Gravel | | | rks. | " rocks |
| Sh. | " Shells | | | ors. | " coarse |
| Sp. | " Spunks | | | stky. | " sticky |
| | | | | brk. | " broken |

Note. *The principal materials and their qualities are designated by larger letter than the subsidiary.*

Statute Miles.

Nautical Miles.

Engd. by J.V.N.Thorp, C.G.B. Metzerott

Rdd. Dr'd by L.D.Williams & J.R.Key