RAREBK
VK
982
.S6
B3
1861
Chart B

Electrotype Copy No. 1 by G. Mathiot U. S. C. S.

NOTE

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, thus ..... for 6 feet, ... for 12 feet, ... for 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.

Latitude of Georgetown Light House ..... 33° 13′ 21″
Longitude of ..... do ..... West from Greenwich Obsy. in arc | *data to* ..... 79° 06′ 44″
Longitude of ..... do ..... do ..... in time | *1855* 5h 16m 27s
Variation of the Magnetic Needle at Allston in Dec. 1853 ..... 2° 06′ E.

The Triangulation was executed in ..... *1853 & 54*
The Topography ..... do ..... in *1853*
The Hydrography ..... do ..... in *1853*
The Magnetic observations were made by C.O. Boutelle Asst. C.S. in Dec. *1853*

CURRENTS

No.	Station	P[t] Quarter Direction	Rate	2[nd] Quarter Direction	Rate	3[d] Quarter Direction	Rate	4[th] Quarter Direction	Rate	Flood or Ebb
1	Georgetown Bar	N. 25° E.	0.5	S. 16° E.	0.8	N. 16° E.	1.0	N. 76° E.	0.4	Flood
		S. 87° E.	0.6	S. 22° E.	0.9	S. 26° E.	0.5	S. 84° E.	0.3	Ebb
2	Bottle Channel	N. 33° W.	1.1	N. 84° W.	1.6	N. 81° W.	1.3	N. 87° W.	0.6	Flood
		S. 44° E.	1.8	S. 82° E.	2.8	S. 55° E.	2.0	S. 57° E.	0.9	Ebb
3	Channel, N. of Lt. Ho.	N. 5° W.	1.7	N. 16° W.	2.0	N. 16° W.	1.5	N. 35° W.	0.7	Flood
		S. 28° E.	1.2	S. 22° E.	2.5	S. 22° E.	1.3	S. 55° E.	0.6	Ebb
4	Off Johnson's Mill	N. 22° W.	0.5	N. 39° W.	1.2	N. 42° W.	0.9	N. 26° W.	0.5	Flood
		S. 81° E.	1.0	S. 84° E.	1.8	S. 55° E.	1.3	S. 67° E.	0.8	Ebb
5	Off Morants	N. 31° W.	0.5	N. 7° W.	1.0	N. 24° W.	0.7	N. 43° W.	0.4	Flood
		S. 35° E.	0.5	S. 7° W.	1.0	S. 4° W.	0.9	S. 6° W.	0.5	Ebb
6	Off Old Fort	N. 15° E.	0.8	N. 20° E.	1.3	N. 25° E.	0.9	N. 16° E.	0.4	Flood
		S. 81° W.	0.7	S. 36° W.	1.3	S. 37° W.	1.0	S. 87° W.	0.6	Ebb

The observations were made as far as practicable when the influence of the wind was small. The Directions are True. The Rates are in Nautical miles per hour, and are shown on the chart by the small figures near the end of the current arrows.

TIDES

	Georgetown VIII[h] XI[m]	South Id. VIII[h] LW[m]
Corrected Establishment		
Mean Rise and Fall of Tides	3.6 ft.	3.8 ft.
Mean ..... do ..... of Spring Tides	4.5 "	4.7 "
Mean ..... do ..... of Neap Tides	2.5 "	2.7 "
Mean Duration of Rise [*reckoning from the middle of one*]	5h 12m	6h 04m
Mean ..... do ..... of Fall [*stand to the middle of the next*]	7h 14m	6h 19m
Mean ..... do ..... of Stand	0h 32m	0h 35m

Abbreviations used in the bottoms of this Chart

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*	*gy.* - *grey*	*fne.* - *fine*
P. - *Pebbles*	*bu.* - *blue*	*crs.* - *coarse*
Sp. - *Specks*	*dk.* - *dark*	*brk.* - *broken*
C. - *Clay*		*sml.* - *small*
		lrg. - *large*

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

U.S. COAST SURVEY

A.D. BACHE Supdt.

PRELIMINARY CHART
OF
WINYAH BAY & GEORGETOWN HARBOR
SOUTH CAROLINA

Triangulation by H. PRINCE Bvt. Maj. U.S.A. & C.O. BOUTELLE Assists.

Topography by S.A. WAINWRIGHT Sub-Assist.

Hydrography by the Party under the command of

Lieut. J. N. MAFFITT U.S.N. Assist.

Scale 40,000

1855

Verified
H. W. Benham, Capt. of Engrs
Asst. C.S. in charge of Office.

SAILING DIRECTIONS

The soundings in approaching Georgetown Bar are irregular, the land low and unmarked by any distinctive scenery, consequently the Light House is the only guide for approaching the channels and avoiding East Bank shoal. The changing character of the channels, and the total dependence on Buoys, renders it unsafe for strangers to attempt the passage without a pilot.

There are but two channels now in use, the S.E. Pass, and the Bottle Channel, the former has 3ft. at mean low water, is the widest, safest, and most generally used by pilots. The Bottle Channel is a recent washing of the Ebb current, and for the last three years has continued to improve in depth, and directness. 7ft. at mean low water can be found in it.

To use S. E. Pass. *Coming from the Northward keep in 5 fms. water to avoid the East Bank, till the Light House bears N. N. W. (N 20° W.) and is in range with a large whitewashed chimney on the Point, then stand in on this course and range, till up with the Outer buoy, keeping it on the Starboard hand, steer N. W. (N. 53° W.) for the Middle buoy, which leave 20 yards on the Starboard hand, and continue the same course till abreast of the Inner buoy, leaving it on the Port hand, steer N. N. W. (N. 20° W.) passing about 10 yards to Port of the buoy on the Fishing Bank, then steer N. by W. ½ W. (N. ¼ W.) till the Light House bears S. E. by E. ½ S. 58° E.) where there is anchorage in 4 to 5 fms. water, about 150 yards from North Id. Beach.*

To use Bottle Channel. *In 4 fms. water, bring the Light House to bear N. W. by W. ½ W. (N. 56° W.) and steer W. N. W. (N. 65° W.) which brings up with the Outer buoy, pass it close to, on either hand, and continue the course till up with the Middle buoy, which must be kept close on the Starboard hand in passing, then steer W. by N. (N. 76° W.) till up with the Inner buoy, passing a few yards to Starboard of it. The course will then be N. W. by W. ½ W. (N. 67° W.) till abreast the buoy on the Fishing Bank, which leave about 80 yds. to the Southward, and steer N. by W. ½ W. (N. 16° W.) for the Anchorage. Due allowance must be made for the Flood and Ebb.*

Statute Miles
Nautical Miles

Redd. & Drn. by A. Schaept & L. D. Williams

Engd. by E. Yeager & A. Petersen