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U. S. COAST AND GEODETIC SURVEY
OFFICE OF THE SUPERINTENDENT
WASHINGTON, D. C.
NO. 1240-2

Diag. Cht. No. 1240-2

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

A. T. Tamm
Superintendent.

State: *S. C.*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3667*

LOCALITY:
St. Helena Id.

1914

CHIEF OF PARTY:
J. B. Bontelle

11-4845

3667

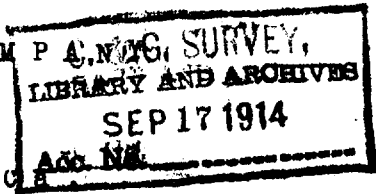
DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET No. 3667

ST. HELENA SOUND, So. C.

1914.

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Method of Survey: Old stations Point, Ott, Combahee Bank Beacon, Marsh, Mor 2, and Hunting Island Light were recovered, new stations were established and determined by triangulation and sounding commenced over the area indicated in my instructions.

Changes: Very little change was found in the main ship channel. The banks on the east and west side of this channel reported to have moved a half mile to the southwest were found to be approximately in their charted position and what slight changes have occurred will be shown when the 1914 soundings are plotted. There is very considerable change in the vicinity of Combahee Bank Beacon, the southeast end of the bank having out away and the 2-fathom curve moved to about one quarter of a mile northwest of the beacon. Between the beacon and nun buoy No. 4 about one mile northwest of the beacon the bank has extended to the southward. A channel has cut through Pelican Bank, north of Egg Bank, with a least depth of eight feet and about 600 feet wide. Can buoy No. 5 PB is at the north end of this channel about in mid channel. A pile with a black target is set at the end of Pelican Bank at the northeast end of this channel and since the survey was made a similar pile and target has been placed at the point of shoal at the southwest end of the channel. The Egg Bank Channel between Morgan and Harbor Rivers shows considerable change. It has a least depth of eight feet and is marked by four piles with targets. Temporary range marks for this channel were set on Egg Bank and are plotted on the sheet. Very considerable changes have occurred around the entrance to Harbor River. New shoals have formed with narrow channels between them making it extremely dangerous for any boat to attempt to enter this river from the sea

without local knowledge or a pilot. Several of these shoals are awash at low water and with an easterly swell the sea breaks heavily on them everywhere inside the 6-foot curve. The tidal currents between these shoals are very strong.

Topography: The new shore line is shown on the sheet. The northeast point of Hunting Island has washed away about 4/10 of a mile to the westward and a new point built out from the mouth of Johnsons Creek nearly 1½ miles to the old channel of Harbor River. The west, south and east shore line of Otter Island at the mouth of Ashepoo River has also changed as indicated on the sheet. Egg Bank has shifted to the southward. Its new position and the low water line of the large banks south and east of it are indicated on the sheet.

Tidal Data: A tide guage was established at Coffins Point, the northeast end of St. Helena Island, and observations continued there during the period of the work. A gauge was also established at Dales Creek on the south side of Coosaw River but was not used for sounding.

Boat Sheets: Two boat sheets accompany the records with depth curves at approximate low water shown. Also two small sheets of Pelican Bank and Egg Bank Channels, scale 1-10,000, with soundings and curves plotted. There is considerable data on these sheets that will be of service to the office draughtsman in plotting the fair sheet.

There are no inhabitants in the region covered by this sheet with the exception of the plantation at Coffins Point now the property of ex-senator Don Cameron, of Pennsylvania. There are also a few negroes living here and there on the islands.

Traffic: The principal traffic is tugs and their tows bound in and out of the Coosaw River and its tributaries for phosphate rock or lumber. Small craft fishing and oystering navigate all the waters and all the yachts passing north and south go through Ashepoo and Coosaw Rivers.

A list of hydrographic records and table of geographic positions of signals accompany this report.

Respectfully submitted,

J. B. Bontelle

Assistant, U.S.C. & G. Survey,

Chief of Party,

Comdg. U.S.S. ENDEAVOR.

Note for draughtsman

It will be noticed that the lines in main channel south of Black Can buoy No. 1 + across the bar do not correspond with the lines on the boat sheet. The protractor used on the boat sheet must have been out of adjustment.

ST. HELENA SOUND, S. C., STATISTICS

Date	Vol.	Letter	Pos.	Sdgs.	Miles	Boat
1914						
Feb. 19	1	a	37	83	4.0	Launch 44
24	1	b	50	330	6.3	"
27	1	c	114	732	15.0	"
Mar. 3	1	d	52	278	5.1	"
7	1	e	27	185	2.8	"
7	2	A	40	323	13.5	ENDEAVOR
26	2	B	47	361	13.2	"
27	2	C	82	458	15.0	"
Apr. 2	2	D	133	687	29.0	"
3	2	E	30	177	6.0	"
Mar. 3	3	a	49	313	3.5	Whaleboat
4	3	b	41	308	4.0	"
13	3	c	24	178	9.5	"
19	3	d	98	1020	13.0	"
23	3	e	32	170	4.3	"
13	4	f	137	633	16.5	Launch 44
14	4	g	41	299	5.5	"
16	4	h	66	352	8.8	"
18	4	j	91	520	11.8	"
19	4	k	35	204	4.0	"
19	5	k	151	971	20.5	"
23	5	l	109	753	16.5	"
24	5	m	95	512	14.0	"
24	6	m	162	1210	25.0	"
25	6	n	225	1209	32.5	"
23	7	e	23	196	2.5	Whaleboat
24	7	f	42	324	8.0	"
25	7	g	88	597	14.0	"
Apr. 16	7	h	32	305	4.0	"
Mar. 25	8	n	11	45	2.5	Launch 44
27	8	o	36	184	5.0	"
28	8	p	113	525	14.5	"
30	8	q	94	567	12.0	"
31	8	r	118	778	17.0	"
31	9	r	157	386	8.7	"
Apr. 7	9	t	108	684	13.0	"
8	9	u	104	637	16.0	"
10	9	v	23	123	2.5	"
15	9	w	18	123 ⁷	2.5	"
3	10	E	134	782	22.0	ENDEAVOR
8	10	F	89	534	17.8	"
10	10	G	167	843	25.5	"
11	11	H	66	387	13.5	"
15	12	w	10	83	1.5	Launch 44
16	12	x	253	1846	43.0	"
17	12	y	47	330	7.0	"
17	13	y	121	667	17.5	"
18	13	z	63	374	8.0	"
Total	-----		3785	23586	577.3	
Area.	-----		45	sq. miles.		

Hydrographic Sheet No.

GEOGRAPHIC

Locality *St. Helena Sound, So. Ca. 1914* Datum.

11-676

STATIONS.	LATITUDE.			Seconds in Meters.	LONGITUDE.			Seconds in Meters.	
	°	'	"		°	'	"		
<i>Point</i>	✓	32	28	55.337	1704.6	80	20	16.168	422.2
<i>OH</i> 1902	✓	32	28	17.839	549.5	80	24	15.687	409.6
<i>Mor 2</i> 1913	✓	27	51	55	1581.8	28	45	05	1176.5
<i>Marsh</i>	✓	29	28	88	889.6	30	11	35	296.3
<i>Hunting Isd. Lt. Ho.</i>	✓	22	31	48.4	969.8	26	15	34.0	401.0
<i>Combahee Bank Beacon</i>	✓	27	48	12	1482.3	25	33	40	872.1
<i>Egg #3</i> 1914	✓	26	10	77	331.8	26	29	56	772.2
<i>Hunt</i> 1914	✓	24	42	06	1295.6	26	10	15	265.2
<i>Oke</i> 1914	✓	29	55	50	1709.6	27	38	03	992.9
<i>Ash</i> 1914	✓	29	19	65	605.3	24	59	82	
<i>Coiff</i> 1914	✓	25	18	26	562.5	28	01	34	35.0
<i>Jon</i> 1914	✓	23	44	10	1358.4	25	32	51	849.7
<i>Tuf</i> 1914	✓	32	24	—	1336	80	24	—	770

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POSITIONS.

State

AZIMUTH. ° / "	BACK AZIMUTH. ° / "	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
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Hyd. Sheet # 3667.

The area surveyed is located in the St. Helena Sound, So. Ca.

Positions were plotted in the field & soundings were plotted and inked in the office. The positions were too thickly and too heavily marked and soundings had to be inked on top of positions.

On pages 1 & 2 of Vol. 1, a list of positions of buoys and cans in the main channel is given. On the following instances the positions as plotted do not agree with those recorded on pages 1 & 2, Vol. 1.

Blk. Wh. Nun buoy (see ¹⁶VA, page 1, Vol. 1) was plotted with the right \angle $50^{\circ}56'$, while record of Vol. 1, gives $55^{\circ}56'$.

Blk. Wh. Nun buoy (see ²⁴VA, page 1, Vol. 1) was plotted with a Δ Oke, as left object, while record gives a Light as the left object.

Blk. Nun, No 7 (see ⁴⁴VA, page 2, Vol. I) was plotted with station Marsh, Egg Beacon and not as recorded.

The shoals & the more prominent changes that occurred in this locality since the previous survey are clearly brought out and described in the report of the Chief of the Party.

The work was executed very well and records kept in good shape.

J. B. Shklar

Dec. 4-1914.

Soundings plotted in feet Curves inked by J. S. J. 7/12/15

Hyd. Sheet No. 3767.

This sheet was projected and plotted by the field party. No boat sheet was made.

The depths of the canal toward Oak Bay are not shown on this sheet. Apparently the canal at this point was unfinished at the time of this survey. Blue print number 15665 states that the canal was dredged to 15 feet below M.L.L.W.

L.E. Bolinger

Plotted in Feet.

Proj. & Protracted by - Field Party.

Edgs Plotted & Inked by - L.E.B.

Verified by - R.L.J.

Verified ; Oct 2, 1915.

R. L. Johnston

H. 3667.

St. Helena Sound.-- The area appears to be well covered with soundings, some shoal soundings surrounded by deeper water should have been further examined to made a complete survey.

✓
Sheet examined in Div.
of Hyd'y & Top'y.

applied (in part) to chart 793 June 24, 1936 H. E. MacEwen