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3561

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *South Carolina & Georgia*

DESCRIPTIVE REPORT.

Sheet No. *352*
3561

LOCALITY:

Hunting Island
to
Sapelo Island

1912-13

CHIEF OF PARTY:

W.C. Hodgkins

3560-3561
1913

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Acc. No.

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
O. H. TITTMANN, SUPERINTENDENT

Hyd. 3560.
HYDROGRAPHY

SOUTH CAROLINA AND GEORGIA
HUNTING ISLAND TO SAPELO ISLAND

C. & G. S. STEAMER BACHE
W. C. Hodgkins, Chief of Party

Begun July 9, 1912

Ended June 6, 1913

Scale 1:100,000'
(Sub-sheet on 1:50,000) — *See Hyd. 3661.*

Tide Staffs
at Sapelo Sound Quarantine Station
and at Fort Screven Wharf, Savannah River Entrance

Platted by Leon A. Potter

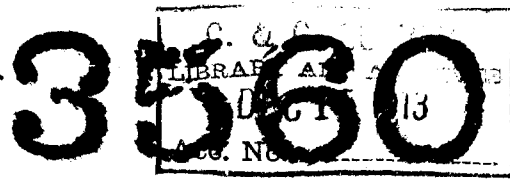
STATISTICS OF WORK

on Hydrographic Sheet No....

Scale 1:100,000

Coast of South Carolina and Georgia

1912 and 1913



Date	Letter	Vol.	Miles	Soundings	Angles	Positions	Boat used
1912							
July 9	A	1	15.19	170		26	BACHE
" 11	B	1	54.81	564		104	"
" 12	C	1	50.00	708	22	104	"
" 18	D	1	38.07	458		76	"
" 19	E	1	3.31	67		14	"
Aug. 1	F	2	16.12	233		35	"
" 3	G	2	52.39	637		98	"
" 7	H	2	46.00	654		90	"
" 8	I	2	27.64	432	108	66	"
" 9		3	11.00	185	38	25	"
" 9	K	3	63.33	946	211	152	"
" 14	L	3	67.00	690	1	119	"
" 15	M	4	21.53	335	45	46	"
" 16	N	4	30.51	401	4	55	"
" 17	O	4	30.00	384	10	58	"
1912 Totals	14	4	526.90	6864	439	1068	
1913							
Jan. 30	P	5	44.33	558		84	BACHE
" 31	Q	5	61.18	554		103	"
Feb. 8	R	5	27.42	362	11	54	"
" 7	S	5	27.52	301		57	"
" "	S	6	16.21	348		33	"
" 8	T	6	23.15	348		50	"
" 12	U	6	53.20	640		97	"
" 15	V	6	52.16	634		98	"
" 17	X	6	10.36	161		28	"
" 18	Y	7	71.00	823		141	"
" 21	Z	7	37.09	213		52	"
" 25	A'	7	12.00	162		28	"
Mar. 3	B'	7	50.67	295	14	50	"
" 4	C'	8	15.00	233		30	"
" 5	D'	8	12.00	289		83	"
" 6	E'	8	24.00	330	20	57	"
" 7	F'	8	42.00	430		84	"
" 8	G'	8	16.95	200		32	"
1913 Totals carried forward	17	4	596.24	6881	45	1161	

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STATISTICS (continued)

Hydrographic Sheet No.....

Date	Letter	Vol.	Miles	Soundings	Angles	Positions	Boat used
1913 Totals brought forward	17	4	596.24	6881	45	1161	
Apr. 12	H'	8	31.52	341		52	BACHE
" 17	I'	9	46.06	575		80	"
" 18	K'	9	48.32	646	7	83	"
" 19	L'	9	46.11	581		91	"
" 23	M'	10	7.48	188	158	65	"
" 24	N'	10	37.71	470	84	99	"
" 25	O'	10	59.88	589	29	109	"
" 26	P'	10	11.60	167		51	"
May 5	Q'	10	7.61	99		17	"
" 6	R'	11	23.18	345		52	"
" 7	S'	11	73.80	809		117	"
" 8	T'	11	18.52	179		33	"
" 9	U'	11	65.85	854	5	118	"
" 29	V'	12	14.84	165		28	"
" 30	W'	12	33.75	434		67	"
June 6	X'	12	35.00	456	184	116	"
			40.70	691	306	153	"
1913 Totals	33	8	1198.17	14470	818	2492	
1912 "	14	4	526.90	6864	439	1068	
GRAND TOTAL	47	12	1725.07	21334	1257	3560	

DESCRIPTIVE REPORT

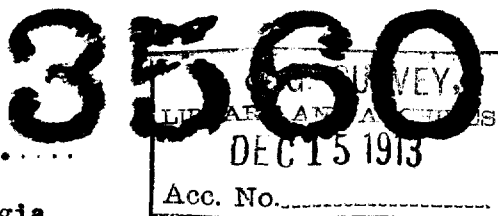
to accompany Hydrographic Sheet No.

Coast of South Carolina and Georgia

Hunting Island to Sapelo Island

Scale 1:100,000

1912 and 1913



The work on this sheet is the offshore hydrography within the above stated limits, the general scheme of work being to run east and west lines about three miles apart in the shoaler portions of the area surveyed and about five miles apart in the portions lying further off shore, in somewhat deeper water.

The western or inshore ends of the lines of soundings were usually fixed either by sextant angles upon shore objects or, when that was impossible, by bearings and distances to floating marks which had been determined from shore stations; but for the greater part of the length of any line it was necessary to depend upon the compass course and upon the distances given by the patent log, checked by current observations at intervals, by observations of the sun or other heavenly bodies when practicable, and by the closure upon known objects at the end of the return line.

In addition to the regular series of east and west lines, quite a number of lines were run in other directions when it became necessary to make a passage along shore or when a closer development was needed, in the vicinity of the principal inlets.

On account of the number of these additional lines in the vicinity of the Savannah River Entrance, it was thought undesirable to attempt to plat all of the work upon the scale of 1:100,000, the scale of the general sheet, and a sub-sheet was therefore projected upon scale 1:50,000, to cover that particular region. The days are lettered in one series for both the main sheet and the sub-sheet.

During the 1912 work, tides were observed at the wharf of the National Quarantine Station on Blackbeard Island, Sapelo Sound, while in 1913 the tide staff was established at Fort Screven wharf, Tybee Island, Savannah River Entrance.

Respectfully submitted,

W. C. Hodgkins

Chief of Party.

To the Superintendent,

Coast and Geodetic Survey,

Washington, D. C.

November 28, 1913.

VEC
Dec. 27, 1913.

HYDROGRAPHIC SHEET 3560.

Quarantine Station, Sapelo Sound, Georgia, by
Assistant W. C. Hodgkins in 1913.

TIDES.

	Quarantine Station ft.
Mean low water, or plane of reference on staff	2.1
Lowest tide observed " "	0.2
Highest " " " "	11.9
Mean range of tide	7.3

VEC
Dec.27,1913.

HYDROGRAPHIC SHEET 3561.

Quarantine Station, Sapelo Sound, Georgia, by
Assistant W. C. Hodgkins in 1913.

TIDES.

	Quarantine Station. ft.
Mean low water, or plane of reference on staff	2.1
Lowest tide observed " "	0.2
Highest " " " "	11.9
Mean range of tide	7.3

EXAMINATION OF HYDROGRAPHIC SHEETS
by the
DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. 3560

- 1. + Are numbers of hydrographic sheets adjoining limits of work shown? *Some*
- 2. Are transferred soundings of adjacent hydrographic sheets made to show that ground has been covered?
- 3. + Is sheet of proper size?
- 4. + Is sheet well laid out, no additions required?
- 5. Are limits of hydrography regular? *no*
- 6. + Are positions of signals accentuated by light dot of black ink to assist plotting? *no*
- 7. + Are tidal stations plotted on sheet? *no*
- 8. Is area of work completely covered? .. *no*
- 9. Are critical soundings and dangers shown distinctly?
- 10.+ Is the control good? ... *no... know signals probably dead reckoning work*
- 11.+ Are positions of signals clearly shown?
- 12. Are soundings well distributed? *no*
- 13. Are shoals carefully and sufficiently developed?
- .. 39 ft sounding to be investigated*
- 14. Do soundings cross satisfactorily?

- 15. Is existence or non-existence of a reported shoal determined?
.....
- 16. Is least sounding over bar probably determined by check soundings or diagonal sounding lines crossing same?
.....
.....
- 17.+ Are projection and plotting checked?
- 18. Is the scale of this sheet sufficient to show the necessary details in the navigable channels?
.....
- 19. +Is the shoreline shown?
- 20.+ Is there an accompanying list of plane table or sextant positions of signals? *No*
- 21. Has sufficient attention been given to the development of channel?
.....
- 22. Are sufficient bottom characteristics shown?
- 23. Are sounding lines normal to coast?
- 24. Have suspicious soundings been investigated? *No*
3951 edg.
- 25. Are ranges or bearings given for important shoals?
- 26.. Are sailing directions given?

27. Is the general hydrography in the entire area properly developed?
28. Are shallow channels for motor boats sounded?
29. Is there a note as to coloration of water in or near mouths of rivers and bays? *no*
30. Is there any information given as to obtaining fresh water?
31. Are there proper intervals between soundings?
32. Are projecting points of land and reefs determined by sufficient lines with soundings at close intervals run at right angle to direction of points?
33. Is there sufficient data to draw depth curves? *no*
34. Are shoal areas remote from shore properly developed by independent system of buoy signals placed in the vicinity of shoal?
35. Are soundings obtained at docks in harbor?
36. *Is there a full list of data effecting sheet given?
37. Are description of hydrographic signals and marking of same recorded?
38. Is there a list of land marks given? *no*

- 39.+ Does descriptive report give date of instructions?
No descriptive Report
40. Are small islets and rocks distinctly shown?
41. Is information relative to anchorage given?
- 42.+ Are survey methods explained sufficiently? ... *No*
43. Are geographical names given on sheet?
44. Are coast pilot notes given?
45. Is the unit of soundings given in title?
46. Are sufficient depth curves shown?
47. Are aids to navigation shown?
48. Are grass or kelp indications shown?
49. Are sailing courses shown on sheet?
50. Is descriptive note given as to visibility of shoals? ... *No*
51. Are dangers fully described in descriptive report? ... *No*
52. Is the character of reefs described on sheet? ... *No*
53. Are beaches indicated where vessels in distress could be safely beached? ... *No*
54. Are standard symbols used in drafting? ... *No*
55. Is information relative to currents given? ... *No*
56. Is there a statement as to certainty or probability of least depth over dangers given? ... *No*
57. Is the existence of certain shoals doubtful?
58. Is a general description of coast given?

- 59. Is information relative to commercial importance given?
- 60. Does the descriptive report cover one or a moderate number of sheets?
- 61. Are descriptions of headlands given?
- 62. Is the nature of shoals whether coral rock or sand shown on sheet?
- 63.+ Is the position of the tide gauge well selected? Is the tidal data sufficient for the reduction of soundings over the area of the sheet?
- 64.+ Have projection lines been numbered around all the edges? ...
- 65.+ Has the geographic position of one of the triangulation points on the sheet been inked near the bottom edge of the sheet? ..
- 66. Was the speed of the sounding boat such as to allow vertical readings of the leadline?
- 67. Were lines of soundings run along the axis of narrow channels?
- 68. Have rocks or shoals seen from the sounding boat in passing been definitely located?
- 69. Have charted shoals reefs, or rocks been investigated?
- 70.+ Have sounding records been kept in approved form?

71. Are Wire drag surveys required?

72. Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be?

Other Remarks *no descriptive Report*
(Offshore work)

The forgoing points marked by a cross (+) and the following additional points are to be considered for wire drag hydrographic sheets.

73. What additional areas, if any, in the locality covered by the sheet should be dragged?

74. Number of small areas inside limits of work missed by drag (few, moderate number, numerous)

75. Are shoals discovered with drag clearly shown?

76. Were shoals later covered by drag set at suitable depth?

77. Are all areas missed by drag clearly shown?

78. Are overlaps ample?

79. Do effective depths conform to instructions under which the work was done?

80. If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform to the present practice?

81. Are all shoals discovered shown on current issue of chart?