

U. S. COAST & GEODETIC SURVEY - LIBRARY AND ARCHIVES

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton , Director
/
State: South Carolina
DESCRIPTIVE REPORT
Topographic Sheet No. A 6080
Hydrographic Sheet No. A 6080
LOCALITY
Charleston, S. C.
Chamber Dt. to Mt. Discourt
Cummings Pt. to Mt. Pleasant
·
193 4
CHIEF OF PARTY
, , , , , , , , , , , , , , , , , , ,
Lt. Benjamin H. Rigg

6080

U. S. COAST & GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET.

AUG 14 1984

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

<u>A</u>

6080 REGISTER NO.

State South Carolina
General locality Charleston, S. C.
Locality Cummings Pt. to Mt. Pleasant
Scale 1-10,000 Date of survey June , 19 34
Vessel Party No. 19
Chief of party Lt. Benjamin H. Rigg
Surveyed by A. H. Rogers, Jr.
Inked by A. I. Rogers, Jr.
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated October 10 , 19 33
Remarks: Report of supplementary survey, under direction of Lt. Benjamin H. Rigg. Original survey under direction of Lt. H. O. Witherbee.

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET "A".

Instructions dated Nov.2,1933.

a The primary purpose of this sheet was to locate hydrographic signals, Tandmarks, aids to navigation and some shore line.

The section of Atlantic coast line located on this sheet was off sand with low dunes from ten to thirty meters in from high water line.

Located about 2500 meters of shore line of a newly dredged channel, a part of inland waterway route improvement north of Sullivan's Island.

This channel was dredged through a grass covered mud marsh, the topographic location was made necessary by dredging operations subsequent to the completion of the aerial photography.

b Landmarks,

- c The control used on this sheet was of second and third order triangulation.
- d No traverses were run.
- e The hydrographic signals, aids to navigation and landmarks were located by at least three cuts from triangulation stations.

All shore line location was rodded in after positioning table by three point fixes.

Direction of ranges was located by setting up on physical range line, positioning by a three point fix and cutting through range markers.

- f No form lines.
- g No revision work.
- h No incomplete or unreliable work.
- i No deviation from standard practice.
- j No junction with adjacent work.
- k No new names.
- 1 Recoverable positions furnished on form # 524.
- m Aerial photographs have been taken of this area.
- n No changes in coast line.
- o Marshes are of grass covered mud often covered at high tide.

Respectfully submitted, Oscar Mulford.

M.O. Witherbee

Chief of Party

Topographer.

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OUTLINE OF SUP. LEMENTARY REPORT FOR ALUMINUM CONTROL SHEET A

- 1. INSTRUCTIONS.
- 2. PURPOSE OF SURVEY.
- 3. LIMITS OF SHEET.
- 4. CONTROL.
- 5. SURVEYING METHODS USED.
- 6. DESCRIPTION OF TERRITORY.
- 7. NEW NAMES.
- 8. LANDMARKS.
- 9. STATIONS PERMANENTLY MARKED.
- 10. FIELD INSPECTIOM.
- 11. AIDS TO WAVIGATION.

DESCRIPTIVE REPORT TO ACCOMPANY ALULINUM MOUNTED CONTROL SHEET

A

INSTRUCTIONS

The survey was carried out under original instructions dated October 10, 1933, also Director's letters MG 1990 (19), 26 AHH 293, and circular letter No. 30.

PURPOSE OF SURVEY

The purpose of this supplementary survey was to rod in additional shoreline as a check for photo compilation, to cut in additional landmarks, to locate and describe additional U.S.E.D. Stations, to locate additional topographic features such as docks, jetties, break-waters, and highways, and also to locate additional aids to navigation. This survey was also to definitely tie in U.S.E.D. points on the traverse for the newly dredged intracoastal route.

LIMITS OF SHEET

The sheet includes topography in and around the entrance to Charleston Harbor, from the mouth of Shem Creek at lat. 32° 47.3' to a point on the shoreline south of Cummings Point at 32° 43.5', and from the Quarantine Station at long. 79° 54' to a point on the Sullivan's Island shoreline at 79° 50.5'.

CONTROL

Control was from triangulation stations listed below with the date of their execution:

MAIN SCHEME

Mt. Pleasant Tank, 1921
Jet, 1933
Mud, 1933
Ft. Moultrie Tank, 1910
Cummings, 1933
Quarantine Tank, 1933
U.S.E.D. Johnson, 1933
Ft. Sumter Battery R.M., 1919
Horse, 1933

INTERSECTION STATIONS

Fort Sumter Front Range, 1933 North Tower, Sumter, 1933 Ft. Sumter Flagpole, 1933 South Tower, Sumter, 1933 Sumter U.S.E.D., 1933 Ft. Sumter Rear Range, 1933.

SURVEY METHODS USED

The usual U.S. Coast and Geodetic Survey methods were used.

All hydrographic signals, landmarks and aids to navigation were located as near as possible by cuts from triangulation stations. Where this method was impossible, cuts were taken from position obtained by a strong three point fix.

A traverse was run from station Jet, 1933 to the highway joining Mt. Pleasant and Sullivans Island, then down the highway to a point on the first curve where the traverse could be checked in by a 3 point fix. No adjustment was necessary.

All shoreline was rodded in from set-ups located by strong 3 point fixes except in the cases of the shoreline adjacent to triangulation stations <u>Jet Horse</u>, and <u>Cummings</u>. In those cases, setups were made on the stations.

In locating the azimuths of ranges, a 3 point fix was made near the range. Then rod readings were taken to a point on range. In each case the distance from the point on range to the Front Range was long enough to accurately determine the azimuth of the range.

DESCRIPTION OF TERRITORY

Everywhere on the sheet except in Cove Inlet, the shoreline is of a sandy nature with small dunes on it. Mt. Pleasant is high ground covered with oak trees. Along the new intracoastal route, the shoreline is a grass covered mud flat partially covered at high tide.

NEW NAMES

There are no new names.

LANDMARKS

The following landmarks are of importance:

Fort Moultrie Tank
Cupola (Coast Guard Station)
Steel Tower
Quarantine Tank
Catholic Church Tower.

Mt. Pleasant Tank. Mt. Pleasant Tank
Mt. Pleasant Rear Range
Mt. Pleasant Front Range
Ft. Sumter Front Range
Ft. Sumter Rear Range

Descriptions of landmarks located by topography are made on form 567 and 524 which accompany this sheet, except those cut in by triangulation.

STATIONS PERMANENTLY MARKED

Listed below are the permanently marked U.S.E.D. Stations and U.S. Bm.'s which were found and located on this sheet:

U.S.E.D. STATIONS

Cap 2

U.S. Bm. 's.

No. 60 No. 59

These stations and Bm.'s are described on form 524 which accompany this report.

U.S.E.D. traverse stations along the intracoastal route between Charleston and Georgetown are also located on this sheet. The stations located on the topographic sheet are noted on U.S.E.D. location sheet No. 8, dated January 12, 1934, by red circles. Location sheet No. 8 will accompany this report.

These stations are marked by wooden 4 x 4's driven into the mud.

Due to the fact that they have no future value and were located in such

unsuitable ground, they were not permanently marked.

FIELD INSPECTION

The requirements stated on page 30 in "Notes on Compilation of Planimetric Line Maps" have been complied with as noted in the descriptive report accompanying sheet K. Seven and seven tenths miles of shoreline were rodded in and checked with the celluloid sheet.

AIDS TO NAVIGATION

Listed below are the aids to navigation with their D.M.'s and D.P.'s: These are also included on forms 567 and 524.

Located by topography Lat. Long. Name 1727:3) 79 53 Light No. 1-32 46 (963.3) Mt. Pleasant Front Range 32 48 885.0 79 53 74.0 (171.) (485.2)Mt. Pleasant 79 53 Rear Range 32 47 1076.5 Shem Creek (1240) (219-) Light 321.4 (---) (1229.3)Shem Creek 596 Front Range 32 47 79 53 332.1 (---*) (1233.3) Shem Creek 79 53 677 328.1 Rear Range 32 47 (1776.2)(1258.7)Light No. 32 46 84.1 79 52 303.3 4 (132.1)(1748.3)Light No. 1429:6 32 46 100 79 51 3 (1599.3) (415.1)Cove Inlet 32 46 249 79 51 1146.3 Rear Range (200) (1661.3)Cove Inlet 1361.4 Front Range 32 46 187 79 51 (184.1) (538.5) 1013.5 (668) 1664.2 79 51 (138) Beacon A 32 45 894. 1710.3 79 51 Light 2-C 32 45 (395) 11,53.3 (1598.2) (970)32 45 Beacon B 32 46 Beacon 79 51 Light No. 2-32 46 79 50 513.7 867.3 (901.1)(719.2)Sullivans Is. Beacon F. R.32 45 79 51 947.2

Located by triangulation

Name	La	t		Lo	mg.	
Ft. Sumter Front Range	° 32	<u> 1</u>	m. (273.1) 1575.1	⁹ 7 9 5 ¹	Ī	m. (289.5) 1272.5
Ft. Sumter Rear Range	32	45	(1522.4) 325.9	7 9 58	2	(785 . 5) 776 . 5
Ft. Moultrie Tank R. R.	32	L ₁ 5	(904.8) 943.5	79 50)	(191 .7) 1370.3

Respectfully submitted by, Augustus M. Rogers, Jr.

Forwarded by

E. G. Engineer

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

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LANDMARKS FOR CHARTS

6080

DITIONITIES	o i ok ommi	
	Charleston, S. C.	
	July 31,	, 193 4
Depresson II C Co. on AND GRODEWIG SURVEY:		

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

				Lto D	onjamu	n- magg:	Chief of Party.
			POSITION				
DESCRIPTION	LA	TITUDE	LONG	SITUDE	DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED
	0 1	D.M. METERS	0 1	D.P. METERS			Same as letter 547-19
Sullivans Island Beacon F. R.	32 4	(901.1 5 947.2	79 51	(719.2 813	1927	Plane- table	1239 à 470
4-1							
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	original	topograph	de shoot	and for	md to b	o correc	•
			•	Adde	Land of		
TO PARTIE THE							
PARTY CONTRACTOR							

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive indentification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart. permanent to chart. U. S. GOVERNMENT PRINTING OFFICE: 1934 25379

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Charleston, S. C.

July 31

1934

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Lt. Benjamin H. Rigg.

Chief of Party.

DESCRIPTION	LA	LONGITUDE			DATUM	METHOD OF DETER- MINATION	CHARTS AFFECTED Same as Latter547		
	0 1	D.M. METERS	0	1	D.P. METERS			Same as	Letter547
		(121.3)			(337.0)	N.A.	Plane-		
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t. Pleasant		(131.)			(485.2)		u	17	
par Range	32 4	131 .	79	53		***	**	**	-
hem Creek		((13ko)			-	
lght	32 L	219	79	53	321.4	4	***	**	-
nom Creek		()			(1229.3)	/ 11	19	-	
ont Range	32 li	7 596	79	53'	332-1	-		41	
iem Creek		(*************************************	1		(1235.				
nar Range	32 4		79	53	320.1	V 88	7.0	16	
		(1776.2	1		(1258.7)	1 0		. 10/	
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		(2748-3	~		(132.1)	1 .	11		
ight No. 3	32 4		79	51'	1429.6		**	40	
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		(138)	1		(668)	-			
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		(395)	4	,	(970)	1			
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		(1598.)	2)		(1419.5				
Beacon	32 46		- 79	51	143.2	Y 10	11	-	0
		(981)			(10hB)	1			V. 199
ight No. 2	32 4			50	513-7	1 11	83	10	11

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U.S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Charleston, S. C.

July 17 193 4

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DESCRIPTION											
		LATI	TUDE	LONGITUDE				METHOD OF DETER- MINATION	CHARTS AFFECTED		
	0	1	D.M. METERS	0		D.P. METERS	DATUM	MINATION	Same a	same as letter 54	
ANK, conical top, flat ottom (Ft. Moultrie)1-2-	3 32	15	943.5	79	50	(191.7)	N.A. 1927	Triang. 1910	1239	a 470	
OPOLA, C. G. Station (Cup) 1-2	32	15	953	79	50	(590)		Plane- table	0	w	
OWER, stool, 75° high	32	15	1014	79	51	803	83	11		12	
MK, conical top, homi- pherical bottom, 1-2-3	32	45	283.17	79	53	1432.9		Schoppe 1933	11		192
MER, square, church	32	15	1159	79	51	815	89	Plane- table			
AMM, (Mt. Pleasant Tank)	32	47	746.6"	79	52	1009.31 -1010	11	Triang. 1921		**	
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			Ma	di	ion	Shalf					
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