5168

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R.S.Patton , Director

U. S. COTT & SEODETIC SURVEY A - / AND ARCHIVES

JAN 23 1935

Acc. No.

		,		•
,			State: South Carolina	
		1	DESCRIPTIVE	REPORT
~		Air Photo	Topographic Sheet No.	Field No. 16 Reg. No.5168
U	• · · ·		LOCALIT	Υ
		·	SOUTHWEST OF CHARLES'	TON HARBOR
U		1	S, EDISTO RIVER - JE	
7		-		
り	-		1934.	-
	, .	•	OHIEF OF PA	ARTY
		÷	D W Vina	a.b.

applied to Chart 193 Rebusy 6, 1936 HEMac Swen " " " 1239 April 1937 J.M. A.

SHEET NO. 16 REG. NO.5168

PHOTOS NO M-66 to M-69 - 807J-8 M-103 to M-106 - 807J-8 M-112 to M-119 - 807J-8	November 9, 1933 11:05 AM 1h 38m	before High of +6.6 before high of +5.8 before high of +5.8
PROJECTION BY	Ste Ripley	1-15-34
PROJECTION CHECKED BY	J. H. Wulbern	1-15-34
CONTROL PLOTTED BY	J. P. Mitchell	1-17-34
CONTROL CHECKED BY	M.R. Donaldson	1-18 - 34
TOPOGRAPHY TRANSFERRED BY	W. W. Langley H. W. Langley	
TOPOGRAPHY CHECKED BY	E. H. Kirson	
SMOOTH RADIAL LINE PLOT BY	L. C. Lande	3-9-34
RADIAL PLOT CHEKCED BY .	E. H. Kirsch	
SCALE PLOT BY	J. H. Wulbern	1-5-34
DETAIL INKED BY	H. W. Langley H. W. Langley	5-4-34

AREA COVERED BY SHEET: 23.4 Square statute miles.

LENGTH OF SHORELINE: 23.8 statute miles (more than 200 meters from nearest opposite shore)

LENGTH OF STREAMS: 26.4 statute miles (Rivers and sloughs less than 200m wide)

LENGTH OF COASTLINE: None.

CI

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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

Field No. 16

REGISTER NO. 5168

5168

State South Carolina

General locality Southwest of Charleston Harbor

Locality S. Edisto River - JEHOSSEE ISLAND

Photographs - October 25, 1933

Scale 1:10,000 Date of survey November 9, 1933, 19

Compilation - May 4, 1934

Vessel Air Photo Compilation Party No. 21, Charleston, S. C.

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report.

Inked by H. W. Langley

Heights in feet above -----to ground to tops of trees

Contour, Approximate contour, Form line interval ----feet

Instructions dated November 10, 1933, 19

Remarks: None

GENERAL INFORMATION

In general, the area covered by this sheet is low and mostly marsh, consisting mostly of abandoned rice fields which have grown up in marsh grass. This general report, and additional information in questionable areas was furnished by Lt. B. H. Rigg - 1934.

The accompanying "Notes on Compilation" gives all data in connection with the compilation of this sheet.

This sheet was compiled from photographs taken by the U.S. Army Air Corps' single lens camera, photo numbers as follows: M-66 - 807J-8 to M-69 807J-8; M-103 807J-8 to M-106 - 807J-8; and M-112-807J-8 to M-119 - 807J-8 Inc.

CONTROL

Sources:

The following sources of control were used in the compilation of this sheet;

Triangulation by: C. A. Egner - 1933

1934 - Aluminum Control Sheets "R" Reg. No. 7-6072 "S" Reg. No. 7-606 , by Lt. B. H. Riggs' Party.

The geographic positions of the field party were used; these were on the North American 1927 datum.

Errors:

No plottable errors were found in the control of this sheet.

Discrepancies:

No control stations established by other organizations were used in this compilation.

COMPILATION

Method:

The usual radial line method of plotting as described in the U.S.C. & G.S. "Notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs" 1933 - edition.

Adjustment of Plot:

No unusual adjustment was required in the radial plot.

The graphic symbol used in this compilation to from the graphic symbol used in this compilation to Show dikes has not been approved by the Board of Show dikes has not been approved by the Board of Surveys and Maps. The reason for its use is explained below in this. opticle. Lam.

The photographs were free of excessive tilt and acale fluctuation.

Interpretation:

The graphic symbols as approved by the Board of Surveys and Maps (1932) were the only symbols used. No difficulty was experienced in the interpretation of the photographic detail. * See opp. Page.

The wooded and grassed area in the northwest corner of the sheet is very low, consisting of trees, bushes and short grass.

The adjoining area on both sides of Watt's Cut which is represented by scattered sand is dredge spoils. Due to this fact, this area is built up land and grass is beginning to grow on it.

The dock on South Edisto River near triangulation station PECK is a fishermans' dock with a shack on it. The same applies to the dock near triangulation station HOS.

The dotted square approximately 200m west of triangulation station HOS is a delapidated brick rice mill. There is also a delapidated dock on the stream east of and adjoining the mill.

The abandoned rice fields on this sheet have grown up in marsh grass and consist entirely of ditches and dikes. The ditches have been shown as solid lines. The dikes have been represented by a double row of staggered dots. This symbol was used for the dikes instead of the hachures because in most cases the dikes were too narrow to be shown by hachures.

These ditches have recently been reopened, the dikes rebuilt, and the flood gates repaired by Mr. Dodge, who owns this property, in order that he might flood the old rice fields for hunting purposes.

Information from other Sources:

Any additional information used in the compilation of this sheet was received by field inspection and reports from Lt. B. H. Riggs' party - 1934. Lt. R.99's Report is filed with Desc. Report for T-5153.

Conflicting Names:

There are no names on this sheet conflicting with names shown on the U.S.C. & G.S. Charts of this area. No. new names.

COMPARISON WITH OTHER SURVEYS

cam.

Junctions:

Satisfactory junctions were made with sheet 5167 on the East, and with sheet 5169 on the South.

The dock referred to here lies about 900 meters north of & Somp. on the west bank of the river. Only the end point of this clock is shown on T-60826. This dock which does not appear on the photos has been added to the compilation by soining the shore with a line from the point of dock. Lat. 32°-36.8; Long 80°251'

Lam. 139. Jones

The value of 3 to 6 imalies given on the officials.

page is a little high for with on this weals.

a better estimate is an accuracy of location

of 3 to 5 imaters for internetal provides and

3 to 10 imaters for other details:

Bayones

•

•

'In the comparison of this air Photo sheet with aluminum control sheets "R" and "S" Reg. Nos. 7-6002b T-6:06, the high water line agree with the exception of a few points. It is felt that the failure of these points to agree is due entirely to a difference of interpretation of the high water line, also the fact that the photographs were taken approximately six months before the aluminum sheet was made.

All the docks shown on aluminum control sheets R and S agree with the ones on this Air Photo Sheet.

The dock near triangulation station SAMP as shown on aluminum control sheet "R" Reg. No. T 6082, does not appear on the photographs; hence, it is not shown on this air photo sheet. X
See app page.

Landmarks:

The landmarks for charts and marked topographic stations included in this area have been submitted with aluminum control sheets " R" Reg. No. , and "S" Reg. No.7-6:06.

RECOMMENDATIONS FOR FURTHER SURVEYS

The compilation of this sheet is believed to have a probable error of 3 meters in well defined detail of importance for charting and of 6 meters for other data.

To the best of my knowledge this sheet is complete in all detail of importance for charting purposes within the accuracy stated above, and no additional surveys are required. Les official jugge

Remarks:

At triangulation stations RAIL and BRIDGE, the southern point of the two in the triangles is the correct position. At triangulation station HOS the eastern edge of the northern hole is the correct position.

The hydrographic signals, as shown along Dawho River and Watts Cut, were spotted on the photos in the field and radial plotted on this sheet, and are represented by Biack circles (o). Thus one multiples of the compilation but will must be were sent of the compilation but will make memoir on the collaborary 13.9 forces Submitted by: Submitted by:

X. W. Langley

H. W. Langley.

E. H. Kirsch, Chief of Party.

M-10

Title (Par. 56) S. Edisto River - JEHOSSEE ISLAND

Chief of Party E. H. Kirsch

Compiled by H. W. Langley

Project HT-162

Instructions dated November 10, 1933

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
- 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) No information taken from outside sources.
- 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 6. The representation of low water lines, reefs, coral reefs and recks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)

 No bridges.
- 9. The data furnished by the Field Inspection is adequate.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions (7-606. checked. (Par. 29, 30 and 57.) Submitted with control sheets. (7-6082 to Plotted on propolect desc.),1934.
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)
 Submitted with control sheets.

4. The geographic datum of the sheet is N. A. 1927 and the reference station is correctly noted. (Par. 34.)

- 15. Junctions with contemporary surveys are adequate.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
- 17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- 18. No additional surveying is recommended.

19. Remarks:

See following pages.

20. Examined and approved:

Chief of Party

E.H.Kirsch, Ch 21. Remarks after review in office:

Reviewed in office by: Leonard W. Museum

Examined and approved:

Chief Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of

Hydrography and Topography.

Note Graphic control surrey T6082a shows

a small insert for Lat. 32°37' Long 80°21'
giving location of 3 Beacons. This insert was
passed over in The office verification
The Beacons have been added on a

supplemental for T 608 5168 on 1/20/36 and
will be added to The plates at a later printing.
Transfer of Bas. by LAM. and checked by B.G.J.

B399 1/20/36.

Topographic Stations:

The list of recoverable topographic stations given below are described on Form 524:

Filed under T-6082b

Air Photo Control

(Bat (d)
(Bat (d)
(Beacon No. 2 (Quo) (d)

Filed under T-6106

Air Photo Control

(Large White House East Chimney (d)
(Beacon No. 1 (d)
(Beacon No. 4 (d)
(Beacon No. 6 (d)

Stations plotted L.A.M. L.a.Z... Checked by D.H.B. D.H.B.

Comparison with Other Surveys:

See note on opposite page

There is satisfactory agreement with T-6106 (1933). With T-6082b (1933) the following discrepancies were noted: (1) On the west bank of the S. Edisto River there is a difference of shoreline - lat. 32° 37'; long. 80° 23.4' (at the bend). (2) On the east bank of the S. Edisto River - difference of shoreline - lat. 32° 36.3'; long. 80° 25.2' (at the bend) (3) On the west bank of the same river - difference of shoreline Lat. 32° 37.7', long. 80° 24.5' (at the bend) (4) On the west bank of the same river. Northwest of Beacon No. 2(d) - difference of shoreline. (5) On the west bank of the same river - difference of shoreline lat. 32° 39.2', long. 80° 23.5' (at the bend). These differences are mentioned in general under "Comparisons with Other Surveys", Page 2 of the Descriptive Report. The tracing of detail from the photographs at these places has been checked in the Washington office. No error was found in this step of the work. The differences average between 5 and 8 meters with a maximum difference of about 15 meters as

noted under No. (1) on preceding page in lat 32° 37.0°, long. 80° 23.4°. The compilation has not been changed to agree with T-6082b. With the exception of No. (4) all differences occur at point of land and are probably due to a combination of natural changes and differences of interpretation.

Comparison was also made with T-679 (1856-57). There is considerable change. This compilation supersedes T-679, which is the only previous topographic survey of this area by this Bureau.

Leonard a. Melsaur. Jam. Bg. gones

State Sheet Carps Plain Sheet Origin At 3e 3e 37 Watts 3e 37 513(17969) 59,24 Egnors NA 80 22 195.9(1684) 18,0 1927 adjusted 1 S E 0 68 32 38 3330(151) 58,3e Egnors NA 80 22 15.6 (15486) 17276 1927 1928 Reduced 1 S E 0 6 17276 1 S E 0 6 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1866 1866 1 S E 0 6 1866 1866 1866 1866 1866 1866 1866 1866 1866 1 S E 0 6 1866 1			بيسه ر ر	Ļ	
State 1 Origin 1 30 State 1 30 Maters La Watts 32 37 513(1796.9) 59.24 Egnors NA 80 22 1959(1368.4) 1.8,00 1927 Adjusted USE 0 68 32 38 3330(1515.1) 58.32 Egnors NA 80 22 15.6 (1548.6) 172.78 1927	ies between the	geodetic and	d the Eng	vacer	
Siden Geographic Positions Engine (ISED) 180 180 180 180 180 180 180 180 180 180	Co-ordinates.	Position .			
Origin A 1 30 Sta n Geographic Positions Engin Meters La Watts 32 37 513(17969) 59.24 Egnors, N.A. 80 22 195.9(1368.4) 18.05 1927 adjusted USE D 68 32 38 3330(15151) 58.32 Egnors, N.A. 80 22 15.6 (1548.6) 177.76 1927		1 1	- ,		
Origin 1 30 State 1 Geographic Fastions Engin Matts 32 37 513 (17969) 59.24 Egnors, N.A. 80 22 1959 (1368.4) 18,0 1927 adjusted VISE 0 68 32 38 3330 (15151) 58,32 Egnors, N.A. 80 22, 156 (1548.6) 17278 1927	10.16 Reg. N	No. 5168			
Siden Geographic Positions Enginery (ISE 1)		1 1			
Siden Geographic Positions Enginery (18E1)	-46-14766 C	3717)	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Siden Geographic Positions Enginery (18E1)	06 8719 (6898/			
(18E1) Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 adjusted USE 0 68 32 38 3330(15151) 58,32. Egnors, N.A. 80 22, 15,6 (1548.6) 172.72	, , , ,				
USED 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0. 1927 adjusted USED 68 32 38 3330(15151) 58,32. Egnors, N.A. 80 22 15.6 (1548.6) 172.72]	}
USED 32 37 513(17969) 59,24 Egners, N.A. 80 22 195.9(1368.4) 1.8,0. 1927 Adjusted USED 32 38 3330(15151) 58,32. Egners, N.A. 80 22, 156 (1548.6) 177.78	+ - + - + - +		++		1
(1SED) Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 adjusted USED 68 32 38 3330(15151) 58,32 Egnors, N.A. 80 22, 156 (1548.6) 177.78					· - · - · - · · - · ·
(1SED) Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 adjusted USED 68 32 38 3330(15151) 58,32 Egnors, N.A. 80 22, 156 (1548.6) 177.78	2. 1 to	100	1#1	2.11	Commital
(18E1) Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 adjusted USE 0 68 32 38 3330(15151) 58,32. Egnors, N.A. 80 22, 15,6 (1548.6) 172.72	5673_000000000053	S GJ TOM OI	7	E	T
USED Watts 32 37 513(17969) 59,24 Egnors, NA 80 22 195.9(1368.4) 1.8,0 1927 adjusted USED 68 32 38 3330(15151) 58,325 Egnors, NA 80 22 15.6 (1548.6) 177.78	7	- Inrough	ngineers.	1 Ingineers	Charters.
USED Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 adjusted USED 68 32 38 3330(5151) 58,325 Egnors, N.A. 80 22, 15.6 (1548.6) 172.72	Uep	- Co-ordina	47 e 5	Co-ordinales	Co:ordinate
Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 adjusted USED 68 32 38 333.0(1515.1) 58,32. Egnors, N.A. 80 22 15.6 (1548.6) 177.77		Lat	Long		
Watts 32 37 513(17969) 59,24 Egnors, N.A. 80 22 195.9(1368.4) 1.8,0 1927 Adjusted USED 68 32 38 333.0(1515.1) 58,32. Egnors, N.A. 80 22 15.6 (1548.6) 177.77	<u> </u>		· · · · · ·	Sign	datum
1927 adjusted USED 68 32 38 3330(1915.1) 5832 Egners, NA 80 22 156 (1948.6) 1727 1927		<u></u>		 -	رو '
1927 adjusted USED 68 32 38 3330(1915.1) 5832 Egners, NA 80 22 156 (1948.6) 1727 1927	69.54 79.854.154	#_23.6m_	1.82.9m_	+27.7	18,086.4 m
1927 adjusted USED 68 32 38 3330(1915.1) 5832 Egners, NA 80 22 156 (1948.6) 1727 1927	8.7m 24.339.5m	m		+ 13.0	24,352.5 m
adjusted USED 68 32 38 3330(1915.1) 58,32. Egners, NA 80 22, 15.6 (1948.6) 177.77			· 	ļ	<u> </u>
USED 68 32 38 3330(15151) 58,32. Egners, NA 80 22, 156 (1548.6) 17272				l	
68 32 38 3330(361) 58325 Egners, NA 80 22, 156 (1948.6) 17272					
Famors, NA 80 22, 156 (15486) 177.76	088 7000/72/	12 300 am	2.4m	+ 30.1	17809.0m
1927	0- 26150	JUE 3/11	2-1 (-77	1	24.172.2%
, , , , , , , , , , , , , , , , , , , ,	.3m. 1 27,133.0m.	7-1 -+ +- + 1		+ /3.2	CT.116.4.M.
Fali Reduced			-+		
				<u> </u>	
	+ + - + - + - + -				-
			·		ļ
					† . • . <u>_</u>
					1
	*				
	+ 				
					
			* *	- 4	
	* *				ļ .
				· ·	ļ ·
		· +		خسس سناه رسا	<u> </u>
					<u> </u>
	· · · · · · · · · · · · · · · · · · ·		. 		
			4 - 4		
					
		_	 	(
				+	
	+	-+ ++	- + +- + +		
					
				 -	
					
				- 	,
		1			
		_{			
- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		- 1		ļ	