5162

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

AUG 9 1934

Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

R. S. PATTON, DIRECTOR

Air

Field No. 10, Topographic | Sheet No. Reg. No. 5162 Photo Hydrographic

State South Carolina

LOCALITY

EDISTO RIVER

SNUGGEDY SWAMP

1934

CHIEF OF PARTY

E. H. Kirsch

U.S. GOVERNMENT PRINTING OFFICE: 1934

applied to chart 793 jan. 23, 1936. Helle Swen " " 1239 april, 937 2-M a.

PHOTOS NO. 1116 through 1133 1187 through 1200	DATE October 10, 1933 October 12, 1933	TIME 12:00 Noon 11:05 A.M.
PROJECTION BY	L. C. Ripley	4-9-34
PROJECTION CHECKED BY	E. H. Kirsch	4-9-34
CONTROL PLOTTED BY	E. S. Ethridge	4-17-34
CONTROL CHECKED BY	M. L. Smith	4-17-34
CONTROL PLOTTED ON PHOTOS BY	F. H. McBeth	·
CONTROL CHECKED ON PHOTOS BY	J. F. Richardson	·
TOPOGRAPHY TRANSFERED BY	W. W. Johnson	5-10-34 - 6-20-34
TOPOGRAPHY CHECKED BY	E. J. Anderson	6-20-34
SMOOTH RADIAL PLOT BY	E. S. Ethridge	5-9-34
SMOOTH RADIAL PLOT CHECKED BY	L. C. Lande	5-9-34
SCALE PLOT BY	L. C. Ripley	3-15-34
DETAIL INKED BY	W. W. Johnson	6-20-34

AREA COVERED BY SHEET: 97 Square Statute Miles

LENGTH OF STREAMS: 55.2 St. Miles (less than 200 meters wide).

LENGTH OF SHORELINE: 2.5 St. Miles (More than 200 meters wide).

LENGTH OF COASTLINE: None.

The length of streams less than 200m wide does not include the ditches and canals located in abandoned rice fields along these streams.

DEPARTMENT OF COMMERCE

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.....10...... REGISTER NO. 5162 5162 State South Carolina General locality Edisto River Snuggedy Swamp Locality Photographs - October 10, 1933 ... Date of survey October 12, 1933, 19.... 2 Scale 1:21,209 Compilation - June 20, 1934 Vessel Air Photo Compilation Party No. 21, Chief of party E. H. Kirsch Surveyed by See data sheet in descriptive report. Inked by W. W. Johnson, Jr. Contour, Approximate contour, Form line interval .= .= feet Instructions dated November 10, 1933 , 19 eletin rade on a scale of 1:21,209 rged to 1:20,000 by plotography

GENERAL INFORMATION

Report:

The area covered by this sheet consists of marsh, which was largely rice fields, now abandoned except for very small areas. These small fields are kept under cultivation by the owners who use the locality as a game preserve. One of these fields is located just north of 32° 40' and east of 80° 26', represented by a clear space on the sheet. Another is located at 32° 43' and slightly west of 80° 31, represented by ditches surrounded by marsh. The remainder of the sheet consists of timber and cleared land, a small percentage of which is under cultivation.

The marsh area between the Edisto and Ashepoo rivers, on the south of the sheet, is largely covered by bushes and tall marsh grass, the boundaries of which are very indefinite on the pictures - hence the indefinite line between marsh and brush.

The marsh area just north of 32° 40' and west of 80° 31' is largely covered by water with small areas of grass scattered through it.

Since this water does not form a permanent pond, the area was shown as marsh.

Other information is furnished by Lt. B. H. Riggs' General Field Inspection Report, submitted with sheet No. 1, Reg. No. 5153.

At one time there was a road extending from south of 32° 42' and east of 80° 27', running in a south-easterly direction to a canal just south of the Seaboard Air Line R. R. This road is now impassable, having been abandoned more than a decade ago, and though the remains can be seen on the photographs it was not traced on the celluloid sheet. The above information was furnished by the caretaker of the Hope Plantation located in the vicinity of the area under discussion.

The spur track which leaves the Seaboard Air Line main track at Lat. 32° 39' and Long. 80° 27' has been abandoned at approximately the point shown. This spur is shown on the Geological Survey charts of the area in question. It has been shown on this sheet as a dashed line, representing the old road bed.

Photographs:

Photographs from two flights were used in the compilation of this sheet. Photos 1118 through 1131, taken at approximately 12:00 Noon October 10, 1933, were used. This was about 15 minutes before a high of 5.1'. Photos 1187 through 1200, taken at approximately 11:05 A.M. October 12, 1933 were used. This was about 3 hours and 10 minutes before a high of 5.0'. All photographs were taken with a standard U. S. Army Air Corps' 5-lens camera.

CONTROL

Sources:

C. A. Egner, triangulation station HURST, PECK, HOS, and SON, 1933.

K. G. Crosby, triangulation station WILLTOWN, RAIL BRIDGE, CRANE, and BOWMAN, 1933

- C. D. Meaney, triangulation station PADGETT, GREEN POND, 1932.
- E. B. ROBERTS, triangulation station ZIP, TANK, ZEB, 1924.

The blue triangles are stations on a traverse - ZIP to GREEN POND - run by Lt. B. H. Riggs' Party. This traverse starts at triangulation station ZIP and runs along an improved dirt road to the Atlantic Coast Line Railroad - thence to GREEN POND. Traverse points were not marked and will not show on the function printed copies.

The following list of geographic positions were used in controlling the plot and are shown on the compilation with blue triangles. They are NOT marked stations. * These will not show an printed copies of the controlling the printed controlling the plot and are shown on the compilation with blue triangles.

rney are	NOT ma Lat.		Meters	Long		Meters The compilation
TP - 1		38 1				
TP - 2	32	38	لبلة) (1446.5)	: 80	29	1542.4 (21.6)
TP - 4	32	39	410.2 (И;38.0)	: 80	30	1198.8 (364.9)
TP - 6	32	39	1394•7 (453•5)	: 80	31	581.1 (982.6)
TP - 7	32	ħο	201.9 (1646.3)	: 80	32	738.8 (824.6)
TP - 10	32	41	1488.8 (359.5)	: 80	33	670.1 (893.0)
TP - 11	32	42	1774-1 (74-2).	: 80	34	772.2 (790.6)
TP - 12	32	43	762.4 (1085.9)	: 80	34	999.4 (563.1)
TP - 14	32	13	1532.8 (315.5)	: 80	34	826.2 (736.3)
TP - 15	32	144	388.6 (1459.7)	: 80	34	743.9)(818.4)

Errors:

No errors were found in the plotting of control.

Discrepancies:

No control stations established by other organizations were used.

COMPILATION

Method:

The standard radial line method described in the U. S. C. & G. S. Notes on the Compilation of Planimetric Line Maps from Aerial Photographs was used.

Ad Adjustment of Plot:

No unusual adjustment of the plot was required. Scale fluctuations due to tilt were not excessive except at the extreme northern edge of the sheet where the detail was taken from the outer half of the wing prints.

Interpretation:

Interpretation of the marsh area between the Edisto and the Ashepoo, south of Lat. 32° 42' was very difficult. Personal field inspection was necessary to acertain whether the area was marsh or brush. (see "general Report," above).

Canals running through the old rice fields usually have dikes along-side them. Two canals close together have a dike between. These features were not shown because of the "Crowded" appearance they give.

Only the graphic symbols shown in the U.S.C. & G.S. topographic manual were used.

Information from other Sources:

Field inspection furnished by Lt. B. H. Rigg.

Field inspection by the compiler.

Conflicting Names:

There are no conflicting names on this sheet.

COMPARISON WITH OTHER SURVEYS

Junctions:

Satisfactory junctions were made with the following sheets:

Sheet	No.	4,	Reg.	No.	5156	on	the	South
		7.	_		5159			East
		16,			5168			Southeast
		11,			51.63			West

Landmarks:

R. P. Eyman Commanding Motor Vessel Natoma, will no doubt have A.C.S. along the Ashepoo River. Reference is made to those sheets for landmarks. No planetable Surveys have been received in the area of this compilation. Also Bigg.

No outstanding landmarks were found on the photographs along the Edisto River.

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Remarks:

The small black circles along the Edisto River show the position of hydrographic signals established by Lt. B. H. Riggs' Party.*

The Seaboard Air Line R. R. Bridge crossing the Edisto river is of the steel truss, swinging type having a horizontal clearance of 61 ft. on each side of the center pier of the main span, and a vertical clearance of 15 ft., on each side of the main draw are spans for small boats, the horizontal clearance is 19 ft. and the vertical clearance 17.5 ft. All measurements were taken at 1:45 P.M. June 26, 1934. Information obtained from Lt. B. H. Riggs' Party. The clearance was given on the sheet by The compiler as 17.5ft above Man.

RECOMMENDATIONS FOR FURTHER SURVEYS

The compilation of this sheet is believed to be accurate within the allowable variation of three meters for detail of importance for charting, and six meters for all other well defined detail. +

No further surveys are necessary.

Assisted by:

E. H. Kirsch,

Chief of Party.

Submitted by:/

W. W. Johnson, Jr.

* These are temporary stations. They will remain on The celluloid sheet but will not be shown on the printed copies.

to high for work on this is a better a better as to 8 meters for intermed points and 5 to 20 meters for other obtail

B.g. gones

Title (Par. 56) Edisto River

Chief of Party E. H. Kirsch

Compiled by W. W. Johnson, Jr.

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".
- The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- 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 source.
- High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 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. Only very little of this area covered by charts
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.) was data furnished for The bridges on The Ashepoo River
- 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.

Names Jums new names are whom and were added in this office from the his. g. S. Maks of this area, Horse shoe creek and Ashepoo River, at the top of the wheel, and Jack son boro in Lat 32 44, Kong 80°25."

Names whom within the area covered by chart 1239 agree with that chart the names whom orticle the area of chart 1239 agree with the his. g. S. Maks except for the name pine Island which is mot on the his. g. J. Maks

R Townson

4. ·

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- M. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions u'and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) Submitted with A.C.S. Noplane table surveys have yet been received 9/20/34
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Submitted with A.C.S.
- 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.)
- The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- No additional surveying is recommended.
- -19. Remarks:

Examined and approved:

E. H. Kirsch, Chief of Party

21. Remarks after review in office: Very little detail is shown on the charts in This area and The diagrams show no previous topographic surveys by This Bureau.

Reviewed in office by: 139. go

Examined and approved:

Section of Field Records

Chief, Division of Charts

Section of Field Work

Chief. Division of

Hydrography and Topography.