

5380

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Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Air
Photo

Topographic } *Field 61*
Hydrographic } *Sheet No. 5380*

State South Carolina

LOCALITY

NORTH SANTEE RIVER AND
[VICINITY
~~NORTH SANTEE RIVER BRIDGE~~

NORTH SANTEE RIVER

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

5380

Applied to chart 836 Feb. 5, 1936 H.C.
applied to new chart 787 April 22, 1937
Applied to chart 1238 Oct. 20, 1937

J.G.L.
g.K.S.

Field No. 61
Reg. No. 5380

PHOTOS NO.	DATE	TIME
112 - 124	August 4, 1934	7:45 A.M.
307 - 320	August 5, 1934	8:05 A.M.
484 - 496	August 12, 1934	7:50 A.M.
PROJECTION BY	<u>T. B. Nutting</u> T. B. Nutting	11-22-34
PROJECTION CHECKED BY	<u>P. W. Hund</u> P. W. Hund	11-22-34
CONTROL PLOTTED BY	<u>M. L. Smith</u> M. L. Smith	11-23-34
CONTROL CHECKED BY	<u>E. J. Anderson</u> E. J. Anderson	11-24-34
CONTROL PLOTTED ON PHOTOS BY	<u>M. D. Crook Transferred.</u> L. C. Lande	Oct. & Nov. 1934
CONTROL CHECKED BY	<u>E. J. Anderson</u> E. J. Anderson	Nov. 1934
RADIAL PLOT BY	<u>E. J. Anderson</u> E. J. Anderson	12-11-34
RADIAL PLOT CHECKED BY	<u>M. L. Smith</u> M. L. Smith	12-20-34
TOPOGRAPHY TRANSFERRED BY	<u>M. L. Smith</u> M. L. Smith	
TOPOGRAPHY CHECKED BY	<u>H. W. Langley</u> H. W. Langley	
SCALE PLOT BY	<u>T. P. Mitchell</u> T. P. Mitchell	
DETAIL INKED BY	<u>M. L. Smith</u> M. L. Smith	1-24-35

AREA OF DETAIL INKED: 30.7 Sq. Statute Miles

LENGTH OF COASTLINE: None.

LENGTH OF SHORELINE: None (over 200 meters wide)

LENGTH OF STREAMS: 11.5 St. Miles (Less than 200 M. Wide)

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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. 61 **5380**

REGISTER NO. Reg. No. 5380

State South Carolina

General locality North Santee River and vicinity

Locality North Santee River
~~North Santee River Bridge~~

Scale 1:10,000 Photographs - 8-4-34
~~1:10,500~~ Date of ~~survey~~ 8-5-34, 19

Compilation - 1-24-35
Vessel Air Photo Compilation Party No. 21

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report

Inked by M. L. Smith

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

The area covered by this sheet consists mostly of cutover woodland, with a few square miles of marsh and some few cultivated fields.

Photo Numbers:

This sheet was compiled from 5-lens photographs taken by the Aero Service Corporation of Philadelphia, Pa, with a U. S. Army Air Corps type camera.

Parts of three flights were used, the flights running in a northeasterly direction across the sheet. Photographs 112 - 124, of the westernmost flight, were taken on August 4, 1934, at 7:45 A.M., 2 hours 19 minutes before low tide. Photographs 307 - 320 of the flight adjoining on the east, were taken on August 5, 1934, at 8:05 A.M., 2 hours and 53 minutes before low tide. Photographs 484 - 496 of the eastern flight were taken on August 12, 1934, at 7:50 A.M., 2 hours and 5 minutes before high tide.

CONTROL

Sources:

Triangulation by C. D. Meaney 1932, K. G. Crosby, 1934.

Traverse stations by State of S. C., 1934.

G.C.S. "SS" Reg. No. T-6296 b, and "RR" Reg. No. T-6296 a.
Lt. B. H. Rigg, 1935.

Control established by C. D. Meaney and K. G. Crosby has been adjusted to N. A. 1927 datum. Other control used in this compilation is unadjusted to N. A. 1927 datum.

Errors:

No errors were found in the plotting of control that could not be corrected by the radial plotter. In some cases it was difficult and even impossible to plot stations on some of the photographs due to heavily wooded areas, but there was at all times ample control for the plot.

COMPILATION

Method:

The radial line method of plotting as described in the U. S. Coast and Geodetic Survey Notes on the compilation of Planimetric line maps from Five Lens Aerial Photographs was used.

Adjustments of Plot:

The photographs were clear and comparatively free from tilt, and no unusual adjustments of the radial plot were necessary.

Interpretation:

No great difficulty was experienced in interpreting the features of the terrain from the photographs. A few cases of doubt, relatively unimportant, are mentioned.

No high ground line has been shown, because due to overhanging trees and the gradual graduation from marsh into low grass land, it was impossible to accurately determine it. A few areas on the sheet shown and labelled as low grassland may possibly be low enough to be boggy in rainy weather, but were not considered permanently marshy.

Cypress trees were shown along waterways and in densely wooded areas where the vegetation was apparently different from that known to be pine and deciduous trees. The wooded northern portion of the sheet shows a peculiar formation in that the trees are not uniform, but grow in densely wooded strips, practically parallelling the coastline, with sparsely wooded areas in between. An attempt was made to differentiate between these areas by varying the density of the trees.

Good motor roads have been shown by full double lines, poor motor roads by double dashed lines, and trails by single dashed lines.

All buildings which were clear on the photographs were shown, but the size and shape of buildings werenot definite enough to be shown accurately.

The bridge in the southwest corner of the sheet is continuous over the North and South Santee River, and the marsh between them, and is built of wood with occasional concrete firebreaks. The draw span over the North Santee is of the steel truss swing type.

The usual graphic symbols as approved by the Board of Surveys and Maps were used. A special symbol was used to denote the numerous sawdust piles. These sawdust piles were also labeled as such.

Information from other Sources:

Additional information was obtained from the field inspection party and from G. C. S. No. "SS" Reg. No. 7-62966, B. H. Rigg, 1935.

Conflicting Names:

No conflicting names were reported by the field inspection party.

Comparison with other surveys:

Satisfactory junctions were made with the following sheets:

North - Sheet No. 5377 and 5378
East - Sheet No. 5381
South - Sheet No. 5382, 5383, 5384
West - None (Limit of Photographs)

Landmarks:

"SS" and "RR" No landmarks have been submitted by the field parties doing G.C. Sheets
~~Landmarks and~~ Marked topographic stations are submitted with
G.C.S. "SS" Reg. No. *T-6296 b*, and "RR" Reg. No. *T-6296 a*, B. H. Rigg 1935.

Remarks:

*Done
6/3/35.*

Data on bridges, U. S. Route 701, N. Santee River,
Swing type, Horizontal Clearance 69.5 ft. Vertical clearance (closed) at
mean low water 10.65 Ft. *at MHW. is 7.2 ft.*

The described topographic stations are shown with a black
circle.

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to have a
probable error of not more than 0.3 millimeters in positions of well
defined detail of importance for charting and of not more than 0.6 mm
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.

Assisted by:

E. H. Kirsch
E. H. Kirsch,
Chief of Party.

Submitted by:

M. L. Smith
M. L. Smith

Survey No. T-5380

Date. June 3, 1935. GEOGRAPHIC NAMES

Chart No. 1238, 1237

Diagram No. 1238 1237

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

[illegible]

REVIEW OF AIR PHOTO COMPILATION NO. T-5380

Scale 1:10,000

Comparison with Graphic Control Survey.

T-6296b (1934) 1:10,000 scale. T-6296b covers the upper part of North and South Santee Rivers. There are no discrepancies between T-6296b and this compilation over the common area. All detail on T-6296b is also shown on this compilation except non-recoverable plane table positions and the magnetic declination.

Comparison with Previous Topographic Surveys.

T-1308 (1873) 1:20,000 scale. Changes of shoreline in Minim Creek and North Santee River since the time T-1308 was made, have been small. Some of the roads in the area of this compilation have been abandoned while others have been realigned. The rice fields are now partially flooded and covered with tall marsh grass. These areas are now represented on this compilation with the marsh symbol. A number of the small settlements in the area adjacent to the once thriving rice fields have been abandoned and their buildings and private roads are gone. T-1308 is superseded by this compilation over the common area. There are no other previous topographic surveys of this area.

Comparison with the Chart.

Chart No. 1238. Only the lower area in the southeast corner of this compilation is represented on this chart. There are no landmarks of importance for charting over the area of this compilation.

Remarks.

The projection of this compilation was tested roughly by checking long diagonals and found to be satisfactory.

Approved
K.T. Adams

Leonard A. McGann
Leonard A. McGann
June 3, 1935.

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REVIEW OF AIR PHOTO COMPILATION NO. 5380

Chief of Party: E. H. Kirsch

Compiled by: M. L. Smith

Project: HT 162

Instructions dated: Nov. 10, 1933

- ✓ 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and i; 26; and 64)
Charts cover only a small portion of this area. *Lucas*
- ✓ 2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n)
- ✓ 3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e)
- ✓ 4. ~~Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts.~~ (Par. 28)
- ✓ 5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
- ✓ 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c, h, i)
- ✓ 7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
No sand beach in this area. *Lucas*

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. ~~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)~~ *None represented.*
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
Descriptions of recoverable objects are filed under Survey number T-62966. Dan.
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
No Landmarks have been recommended in this area by the field parties. Dan.
11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c) ✓
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
No U.S.G.S. quadrangles of this area are available. Dan.
13. The geographic datum of the compilation is *NA 1927* and the reference station is correctly noted. ✓
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) ✓
15. The drafting is satisfactory and particular attention has been given the following:
 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- ✓3. All station points are exactly marked by fine black dots.
- ✓4. Closely spaced lines are drawn sharp and clear for printing.
- ✓5. Topographic symbols for similar features are of uniform weight.
- ✓6. All drawing has been retouched where partially rubbed off.
- ✓7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

✓16. No additional surveying is recommended at this time.

✓17. Remarks:

✓18. Examined and approved;

E. H. Kusch
Chief of Party

✓19. Remarks after review in office:

Reviewed in office by: Leonard A. McLean June 3, 1935.
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Examined and approved:

K. T. Adams
Asst Chief, Section of Field Records
Division of Charts
L. O. Schubert
Chief, Division of Charts

F. B. Borden
Chief, Section of Field Work
G. W. Stude
Chief, Division of Hydrography
and Topography.