DESCRIPTIVE REPORT

Field 64
Topographic
Hydrographic
Sheet No. 5383

State SOUTHERN CAROLINA

LOCALITY
NORTH & SOUTH SANTEE RIVERS
CAUGHT LIGHTS TO HILLSIDE ORIGIN
INTRACOASTAL WATERWAY

1934-5

CHIEF OF PARTY
E. H. Kirsch
Applied to chart 876 Feb. 1 1936 H.C.E.
applied to new chart 787 April 20 1937 F.G.H.,
applied to chart 1238 Oct. 2, 1937 G.H.S.
PHOTOS NO.
106 to 113
466 to 483
287 to 309

DATE
August 4, 1934
August 12, 1934
August 5, 1934

TIME
7:45 A.M.
7:50 A.M.
8:05 A.M.

PROJECTION BY
T. H. Nettling

PROJECTION CHECKED BY
E. H. Kirsch

CONTROL PLOTTED BY
M. L. Smith

CONTROL CHECKED BY
W. W. Johnson

CONTROL PLOTTED ON PHOTOS BY

CONTROL CHECKED ON PHOTOS BY

TOPOGRAPHY CHECKED BY

TOPOGRAPHY TRANSFERRED BY
E. W. Langley

SMOOTH RADIAL LINE PLOT BY
E. W. Langley

RADIAL PLOT CHECKED BY
E. W. Langley

SCALE PLOT BY
T. F. Mitchell

DETAIL INKED BY
H. W. Langley

AREA OF DETAIL INKED: 30.0 Sq. St. Miles.

LENGTH OF SHORELINE: 19 St. Miles (More than 200m wide)

LENGTH OF STREAMS: 31.2 St. Miles (less than 200m wide)

LENGTH OF COASTLINE: 1 st. mile.
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. 64

REGISTER NO. 5383  5383

State South Carolina

General locality Intracoastal Waterway.

Locality North and South Santee Rivers

Castine Creek to Minim Creek

Scale 1/10000

Photographs - 8-1-34; 8-5-34

Date of survey. 8-12-34

Compilation - 1-21-35

Vessel Air Photo Compilation Party No. 21

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

Almost the entire sheet is marsh bordering the north and south Santee Rivers.

A few abandoned rice fields are being used as duck hunting preserves.

Photographs:

This sheet was compiled from photographs taken by a standard U. S. Army Air Corps 5-lens camera No. M U I 33 operated by the Aero Service Corp. of Philadelphia, P.A.

Photos No. 106 to No. 113 taken August 4, 1934 at 7:45 A.M., 2 hours 19 minutes before a low tide.

Photo No. 456 to No. 483, taken August 12, 1934 at 7:50 A.M., 2 hours 05 minutes before a high tide.

Photo No. 287 to No. 309, taken August 5, 1934 at 8:05 A.M., 2 hours 55 minutes before a low tide.

The time for these flights were calculated from the Santee Club Wharf Gauge, established by Lt. B. H. Rigg, 1934.

CONTROL

Sources:

The following sources of control were used: Triangulation by Lt. K. G. Crosby, 1934, Lt. E. E. Roberts, 1924 and Lt. C. D. Meaney, 1932.


The geographic positions established by Crosby and Meaney have been adjusted to N. A. 1927 datum. Other control is unadjusted to N. A. 1927 datum.

Topo stations TEAL, BROWN, and BELLA were recoverable on the photos and were used in the control of this sheet. These stations were established by triangulation for local control purposes and field control stations are field noted on the photos. (Note: Some stations are not marked on the field control notes.)

No errors were discovered in the control of this sheet.

Discrepancies:

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


Adjustment of Plot:

No unusual adjustment was required in the radial plot. The photos were free of excessive tilt and scale fluctuations.

Interpretation:

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

The broken marsh lines in the southeast part of this sheet represent marsh with open water patches.

Information from other sources:


That part of the Intracoastal Waterway which lies between the North and South Santee Rivers was taken from Graphic Control sheets "MN" Reg. No.

Conflicting Names:

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

Comparison with other Surveys:

Satisfactory junctions were made with sheet 5381 on the east, Sheet No. 5382 on the west, Sheet 5380 on the north, and with sheet No. 5387 on the south.

The stream high water line on the G.S.C. agrees with the celluloid topographic sheet compilation.

Landmarks:

The landmarks for charts and marked topographic stations included in this area have been submitted with Graphic Control sheets "MN" Reg. No. T-6294a, "SS" Reg. No. T-6294b, "MM" Reg. No. T-6294b, "SS" Reg. No. T-6296a, Lt. B. H. Rigg, 1934-5. Other landmarks and unmeasured stations shown on these Graphic Control Surveys within the area of the compilation have been transferred to the compilation. Lt. B. H. Rigg.
RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to have a probable error of not more than .3 mm in well defined detail of importance for charting and not more than .6 mm for other data.

Assisted by:

E. H. Kirsch
Chief of Party.

Submitted by:

H. W. Langley
**GEOGRAPHIC NAMES**

Survey No. J-5383

Chart No. 1238

Diagram No. 1238

Date: May 14, 1935.

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

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

Under investigation. Q

<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
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<td>North Santee River</td>
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<tr>
<td></td>
<td>South Santee River</td>
<td>same</td>
<td></td>
<td></td>
<td>1</td>
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<tr>
<td></td>
<td>Brown Island</td>
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<td>Alligator Creek</td>
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<td>Pleasant Creek</td>
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<td></td>
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<tr>
<td></td>
<td>Minim Creek</td>
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<td>Atchison Creek</td>
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<td>Sixmile Creek</td>
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<td>Ramhorn Creek</td>
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<td></td>
<td>Murphy Island</td>
<td>Chart 3255; Acord No. 1095A sty. &quot;Black 1934&quot;</td>
<td></td>
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<tr>
<td></td>
<td>Fourmile Creek Channel</td>
<td>12/21/41 L.H.</td>
<td></td>
<td></td>
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</tbody>
</table>

*Approved in red H.L. Fleming.*
Note a number of the lights shown on the graphic chart were not designated as Beacons on this compilation. At the time of the graphic chart survey these lights had not been completed but their positions were marked by flags or the incomplete structures. See page 5 report T-62956. The lights are not yet in operation according to aid report examined this date 2/11/36.

B. G. Jones
Comparison with Graphic Control Surveys.

T-6296a (1934) 1:10,000. T-6296a covers a portion of the North Santee River. The total area of T-6296a is included within the limits of this compilation. There is perfect agreement between T-6296a and this compilation, and all detail shown on T-6296a is also shown on the compilation with the exception of non-recoverable plane table survey and the magnetic declination.

T-6296b (1934) 1:10,000. There is good agreement between T-6296b and the compilation. In the common area all detail shown on T-6296b is also shown on the compilation with the exception of non-recoverable plane table positions.

T-6295a (1934) 1:10,000. Small errors in the plotting of Beacons 19, 21, and 6 and U. S. E. stations 1107 + 42.94N-B, 1091 + 78.22N-A(d), 1076 + 54.37 NA(d) were corrected. There is now satisfactory agreement between T-6295a and the compilation for the common area. All detail shown on T-6296a is also shown on the compilation with the exception of non-recoverable plane table positions.

T-6294b (1934). This is a graphic control survey on 1:10,000 scale. A discrepancy of about 1 millimeter was found in the line of the intracoastal waterway opposite Light "23". The tie given in the description of the U. S. E. station 937 + 27.52 N-A(d) checks the rodding of the shoreline on the plane table in this area. The shoreline of the compilation was changed here to agree with T-6294b in the absence of the photographs. There is now good agreement between T-6294b and this compilation for the common area where all detail shown on T-6294b is also shown on the compilation with the exception of non-recoverable plane table positions and the magnetic declination.

Comparison with Previous Topographic Surveys.

T-1308 (1873). This is a topographic survey on 1:20,000 scale made 62 years ago. It covers the North and South Santee Rivers and vicinity. There are no large changes of shoreline over the area common to T-1308 and the compilation. At the time of T-1308 the marshed area of the compilation was an area cultivated in rice. These were fields then outlined by the dikes which limit them. Today these dikes are broken through the area is partially flooded and consists of marsh. All of the numerous groups of dwellings and other buildings shown on T-1308 in the rice field area are now abandoned. T-1308 is superseded by the compilation for the common area.

T-1347 (1874). This is a topographic survey on 1:20,000 scale made 61 years ago. It covers an area in the vicinity of Cape Romain, from Cape Romain to long. 79° 30' from Raccoon Key to lat. 33° 10'. The rice areas have changed as described above under the comparison with T-1308. A hachure symbol is shown along the high ground lines on
Murphy Island whereas on this compilation the high ground line is shown by a fine solid line. T-1347 is superseded by the compilation for the common area except for the backures.

T-4150 (1925). This is a topographic survey on 1:20,000 scale covering the coast from South Santee River to Bull Bay along the short length of coast which is common to T-4150 and the compilation there is a large change of the H.W.L.

T-4150 is superseded by the compilation over the common area.

Comparison with the Charts.

Chart No. 1238. Beacons 1, 2, and 3 as shown on this chart in Alligator Creek and Fourmile Creek Canal are not shown on the compilation. They cannot be seen on the photos and have not been located by the field parties working in this area at the time of the compilation. Beacons 2 and 3 are in the Local Light and Buoy List for 1935. Beacon 1 is not listed. Other changes to be made to the chart as a result of this compilation are discussed above under comparison with other surveys.

General.

For a detailed description and purpose of the U.S.E. stations along the intracoastal waterway refer to the descriptive report T-5295b under the article "Permanent hydrographic Stations".

Leonard A. McGann
June 14, 1935.

[Signature]

Approved
K.T. Adams
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, f, and i; 26; and 64)

2. Change in position, or non-existence of wharfs, lights, and
   other topographic detail of particular importance to naviga-
   tion which affect the chart, is discussed in the descriptive
   report. (Par. 26; and 66 g, h)

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. Blueprints and maps from other sources which were transmitted
   by the field party contain sufficient control for their applica-
   tion 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 56 c, h, i)

7. High water line on marshy and mangrove coast is clear and ade-
   quate for chart compilation. (Par. 16a, 43, and 44)

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 Compli-
ation 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)

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 are filed under surveys no. T-6294 b, T-6296 a
   T-6296 b  T-6295 a

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)
   Submitted with graphic control sheets.

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)
   No bridges on this compilation.

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 for a geographic name comparison.

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;

[Signature]
Chief of Party

19. Remarks after review in office:

Reviewed in office by: [Signature]
June 15, 1935.

Examined and approved:

[Signature]
Chief, Division of Charts

[Signature]
Chief, Division of Hydrography and Topography.