DESCRIPTIVE REPORT
Field 66
Topographic Sheet No. 5385

U.S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JUL 18 1935

State. South Carolina

LOCALITY
WINYAH BAY ENTRANCE

1934-5

CHIEF OF PARTY
E. H. Kirsch
applied to sheet 1238 04. 1, 1937  q. H. S.
PHOTOS NO. 691 - 704

DATE
August 25, 1934

TIME
5:00 P.M.

PROJECT BY
L. C. Ripley 11-26-34

PROJECT CHECKED BY
T. E. Nutting 11-26-34

CONTROL PLOTTED BY
M. L. Smith 11-26-34

CONTROL CHECKED BY
W. W. Johnson 11-26-34

CONTROL PLOTTED ON PHOTOS BY
J. F. Richardson

CONTROL CHECKED ON PHOTOS BY
H. W. Langley

RADIAL PLOT BY
H. W. Langley 12-4-34

RADIAL PLOT CHECKED BY
M. L. Smith 12-5-34

TOPOGRAPHY TRANSFERRED BY
M. L. Smith 3-5-35

TOPOGRAPHY CHECKED BY
L. C. Ripley 3-9-35

SCALE PLOT BY
T. F. Mitchell

DETAIL INKED BY
M. L. Smith 3-6-35

AREA OF DETAIL INKED: 4.5 Sq. Statute Miles.

LENGTH OF COASTLINE: 5.0 Statute miles.

LENGTH OF SHORELINE: None (more than 200m wide)

LENGTH OF STREAMS: 10.4 Statute Miles.
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. 66

REGISTER NO. 5385  5385

State...South Carolina

General locality...Winyah Bay Entrance

Locality...South Island

Photographs...Aug. 25, 1934

Scale...1:10,526

Date of Survey...March 6, 1935

Compilation...March 6, 1935

Vessel...Air Photo Compilation Party No. 21

Chief of party...E. H. Kirsh

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 12, 1933

Remarks: None

...
GENERAL INFORMATION

Import:

This sheet covers the coastline between Santee Point, at the entrance to North Santee Bay, and Wingate Bay South Jetty.

Tractically the entire coastline is sand beach, the remainder of the sheet consisting mainly of marshland, with scattered heathy wooded areas. The marshland is considerably cut up by duck ponds, canals, ditches, and dikes.

Photo Numbers:

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

The single flight used for the compilation begins at latitude 33° 08' and runs north between meridians 79° 13' and 79° 11'.

The photographs, 601 - 704, were taken on August 25, 1934, at 5:00 p.m., 3 hours and 6 minutes after low tide.

CONTROL

Sources:

Triangulation by Lt. E. G. Crosby, 1934.

The control established by 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.

Discrepancies:

No Control established by other organizations was used.

COMPILATION

Method:

The radial line method of plotting as described in G.S.S. & G.S. "Notes on the Compilation of Planimetric Line Maps from Five-lens Aerial Photo maps" was used.
Adjustment of Plot:

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

Interpretation:

Only the usual graphic symbols as approved by the Board of Surveys and Maps were used.

The road on the east bank of the canal in the northern portion of the sheet has been shown by a single dashed line, although it is a second class motor road of the type usually shown by a double dashed line. This was done because the road runs along an earth dyke, and in some places one edge of the road was on the edge of the canal, making it impossible to show the proper symbols. The dyke was not shown, due to limited space, but it has been labeled as such.

The water areas in the central portion of the sheet are duck ponds, with marsh islands scattered in them.

The dashed lines represent shoal areas.

**INFORMATION FROM OTHER SOURCES**

Additional information was obtained from the field party and from G.C.S. "PP" Reg. No. T-6248B, Lt. B. H. Rigg, 1935.

The sand bars shown on the sheet were taken from G.C.S. "A" Reg. No. T-6248B, Lt. H. Odessy, 1935. Of the two northernmost bars, only the H.W.L. is shown, as they fall off the photographs, and no information could be obtained from photographs to supplement the plane table survey.

Winnyah Bay South Jetty was also taken from G.C.S. "A", as was the high ground line of the island shown at the east end of the jetty.

**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 - Reg. No. 5381
- West - Reg. No. 5381
- East and South by the Atlantic Ocean

**LANDMARKS**

REMARKS (a)

Mosquito Creek canal, part of which is shown on this sheet, is no longer navigable.

RECOMMENDATIONS FOR FURTHER SURVEYS

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

Submitted by:  
M. L. Smith.

REMARKS (b)

Winyah Bay South Jetty is submerged from the sand bar just west of Longitude 79 10 except for two mounds not shown on the compilation. The jetty bares at 1/4 tide. The entire length of the jetty could not be shown on the compilation due to the photographs and available G.C.S. not extending so far to the east. Lt. Herman Odessy is at present making a sheet covering both jetties which will be submitted at a later date.
<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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>South Island</td>
<td>Same</td>
<td></td>
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<td>1</td>
</tr>
<tr>
<td></td>
<td>Santee Point</td>
<td>Same</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Beach Creek</td>
<td>Same</td>
<td></td>
<td></td>
<td>1</td>
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<tr>
<td></td>
<td>Wheeler Basin</td>
<td></td>
<td></td>
<td></td>
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<td>Mosquito Creek</td>
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<td></td>
<td>√</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Mosquito Creek Con</td>
<td>Same</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Sand Creek Basin</td>
<td></td>
<td></td>
<td>√</td>
<td>1</td>
</tr>
</tbody>
</table>

Names underlined in red approved.

H. L. Fleming.
Comparison with Graphic Control Surveys:

(a) T-6248b (1935)(1:10,000)

The sand bar shown by a solid line on T-6248b, longitude 79°11' and noted: "Probably covered at most high waters", has been transferred to this compilation and is shown by the sand symbol only.

No discrepancies except as noted above.

(b) T-6295b (1935)(1:10,000)

T-6295b covers only the tip of Santee Point. A small discrepancy of HWL of Santee Point is due to a plane table error. The compilation has not been changed.

(c) All detail on T-6295b and T-6248b within the area of this compilation is now shown on the compilation except plane table contemporary stations.

Comparison with Previous Topographic Surveys:

T-527 (1857)(1:10,000) scale.

T-527 covers the HWL only in the vicinity of Winyah Bay entrance, and is incomplete insofar as names and projection lines are concerned. T-527 is superseded by this compilation, which is adequate.

T-834 (1858)(1:20,000)

T-834 covers the shoreline of Winyah Bay and adjacent topography. Only a small portion of T-834 is common to this compilation. The coastline of South Island between latitude 33° 10' and the upper limits of the compilation has become very irregular and the sand beach here is gone. These changes are probably due to the recent construction of the Winyah Bay jetties and the consequent shoaling of the adjacent waters off the coast of South Island. T-834 is superseded by this compilation over the common area.

T-4164 (1925)(1:20,000).

T-4164 covers the coastline from the Winyah Bay Jetties to South Santee River and the adjacent shoreline of Santee River delta. Only detail adjacent to the high water lines is shown. The shoal areas south of the Winyah Bay South Jetty have undergone a complete change. The long narrow marsh and sand island off the coast of South Island between latitude 33° 08' and 33° 09', and longitude 79° 13' and 79° 14' is now joined to the mainland, T-4164 is superseded by the compilation over the common area.
Comparison with Charts:

Two wrecks shown on Charts 428 and 1238, one near South Jetties and the other at longitude 79°09.8' cannot be seen on the photographs and are not shown on this compilation. These wrecks appear on H-4522 (1925).

Now hydrographic surveys of this area are not yet in the office.

Remarks:

The projection has been tested and is accepted as satisfactory.

Leonard C. Hinman
July 6, 1935
V.B.G. Jones
REVIEW OF AIR PHOTO COMPILATION NO. 5385

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 1; 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,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 applica-
   tion to the charts.  (Par. 23)  None transmitted

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 ade-
   quate for chart compilation.  (Par. 16a, 43, and 44)  (Pam. 62
   488 b

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
reefs, 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 of recoverable stations are filed under survey no T-61456
   1. recoverable sta.

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)
    Furnished with graphic control surveys.

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 naviga-
    tion 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
    geographic name comp.

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 Longi-
       tude 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, 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:


Examined and approved:

[Signature]
Chief, Section of Field Records

[Signature]
Chief, Division of Charts

[Signature]
Chief, Section of Field Work

[Signature]
Chief, Division of Hydrography and Topography.
applied to new draft #187 May 1, 1937 geof.
Check list for Air Photo Compilation

1. Sheet Indexed.
2. Return Note correct and marked adjusted or unadjusted; degrees and minutes correctly marked on projection.
3. Note in review as to whether projection was checked and results.
4. Check geographic names against standards and make name list.
5. Lights and Beacons checked against local light lists and corrections and omissions noted in review. Consult aid Standards or U.S. N.H. Bureau in case of doubt as to when the aid was rebuilt.
6. Descriptions on Form 524 checked against compilation and corrected where necessary. Corrections noted in review and cross-references made where filing was changed. File list by sheet numbers made in the review.

Comparison with other surveys:
   a. Charts: for omissions and changes in landmarks and other important detail
   b. Old surveys
   c. New Hydrographic surveys: more available
   d. Plane-table control surveys - all detail on the plane-table control surveys is shown on the compilation except as noted in the review. Differences are discussed.

Plane-table control surveys reviewed in connection with the compilation review and a reference note made at back of the plane-table report. Copy of the compilation review attached at back of the plane-table report if necessary. Notes made in green directly on the plane-table sheet where needed.

m. Projection.
   b. Quality of the plane-table work.
   c. Differences.
   d. U.S.E. Stations and grids.
1. Landmarks and aids.
2. Datum note - adjusted or unadjusted.
3. Stations described on Form 524 marked (d).
4. Put date and initials on notes made on plane-table surveys.

5. Differences or new data of importance called to attention of Cartographic, Field Records, or Coast Pilot Sections.

Junctions noted on side of this form and checked before final order.

Overlay complete:

a. Limits of sheet with % enlargement or reduction.

b. Photo numbers and flight lines.

c. Title note.

12. Review complete:

a. Accuracy of location.

b. Bridge data.

c. Landmarks. 

1d. File list of descriptions on Form 524.

e. Method of location of H.W. line on sand beach.

f. Any additional data to make the descriptive report complete for future reference.