

# 5251

U. S. COAST & GEODETIC SURVEY  
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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

## DESCRIPTIVE REPORT

Field 51

Air  
Photo

Topographic  
~~Hydrographic~~

Sheet No. Reg. No. 5251

State South Carolina

### LOCALITY

West of Murrell Inlet

Pee Dee River

193 4-5

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

# 5251

Applied to chart 836 Jan. 29, 1936 HNL.

SHEET NO. 51

REG. NO. 5251

PHOTO NOS.	DATE	TIME
184 to 198	8-4-34	8:00 A.M.
229 to 233	8-4-34	8:45 A.M.
345 to 350	8-5-34	8:40 A.M.
PROJECTION BY Scale Fact. = 0.950	<u><i>L. C. Ripley</i></u> L. C. Ripley	11-5-34
PROJECTION CHECKED BY	<u><i>E. H. Kirsch</i></u> E. H. Kirsch	11-5-34
CONTROL PLOTTED BY	<u><i>W. W. Johnson</i></u> W. W. Johnson	11-12-34
CONTROL CHECKED BY	<u><i>F. H. McBeth</i></u> F. H. McBeth	11-14-34
CONTROL PLOTTED ON PHOTOS BY	<u><i>Transferred</i></u> J. F. Richardson	
CONTROL CHECKED ON PHOTOS BY	<u><i>E. S. Ethridge</i></u> E. S. Ethridge	Jan. 1935
SMOOTH RADIAL PLOT BY	<u><i>E. S. Ethridge</i></u> E. S. Ethridge	1-11-35
RADIAL PLOT CHECKED BY	<u><i>Discharged</i></u> A. E. Nowell	2-2-35
SCALE PLOT BY	<u><i>T. P. Mitchell</i></u> T. P. Mitchell	Jan. 1935
TOPOGRAPHY TRANSFERRED BY	<u><i>R. G. Hickson</i></u> R. G. Hickson	3-19-35
TOPOGRAPHY CHECKED BY	<u><i>P. W. Hund</i></u> P. W. Hund	3-19-35
DETAIL INKED BY	<u><i>Discharged</i></u> A. E. Nowell	2-27-35

AREA DETAIL INKED: 27.5 Square Statute Miles.

LENGTH OF COASTLINE: None.

LENGTH OF SHORELINE: 1.70 St. miles (more than 200 meters wide)

LENGTH OF STREAMS: 25.0 statute miles (less than 200 meters 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. 51

REGISTER NO. 5251

State South Carolina

General locality West of Murrell Inlet

Locality Pee Dee River

Scale ~~10,000~~ 1/10,000 Photographs- Aug. 4 & 5, 1934  
Date of ~~survey~~ Compilation- February 27, 1935, 19

Vessel Air Photo Compilation Party No. 21.

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report.

Inked by A. E. Nowell

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

### Statistics:

The land area covered by this sheet is 27.50 square statute miles. There are 1.70 St. miles of shore line of rivers 200 meters or more wide, and 25.00 St. miles of rivers and sloughs less than 200 meters wide. There is no outside coastline on this sheet.

### General Report:

No general report is available for this area. The Pee Dee River runs north and south almost through the center of this sheet. There are a few cultivated fields and abandoned rice fields shown. The remainder is about equally divided between pine timber land and cypress swamps. The cypress swamps area just east of the Pee Dee River appears more or less uniform, this being due to the fact that this area, at one time, was adapted to the growing of rice. The old rice field area now covered with a growth of cypress. It will be noted that the remaining cypress swamp area is cut into or separated by sandy ridges which have a pine growth on them. The abandoned rice fields not grown up in cypress are covered with marsh.

### Photographs:

The photos used for this compilation were made with a standard U. S. Army Air Corp's 5-lens Camers, and operated by the Aero Service Corp. of Philadelphia.

Parts of three flights were used in the compilation of this sheet.

Photographs 184 to 198 were made on August 4, 1934, flight started at 8:00 AM, 1 hour and 20 minutes before low tide at Murrell's Inlet.

Photographs 229 to 233 incl., were made on August 4, 1934 and the flight started at 8:45 A.M., 35 minutes before low tide, at Murrell's Inlet.

Photographs 345 to 350 were made on August 5, 1934. The flight started at 8:40 AM.. 1 hour and 34 minutes before low tide at Murrell's Inlet.

### CONTROL

#### Source:

Triangulation by C. D. Meaney 1932, K. G. Crosby 1934, J. C. Sammons 1935 Graphic Control sheet "H" Reg. No. *7-6328 b*, and South Carolina P.W.A. Traverse 1934. Control established by D. C. Meaney and K.G. Crosby has been office adjusted to N. A. 1927 datum. Other control is ~~unadjusted~~ to N. A. 1927 datum.

*Field adjusted*  
*Field adjusted*

Errors:

No errors were found in the plotting of control.

Discrepancies:

No control stations established by other organizations were used except as stated under "sources of Control".

Method:

The usual radial line method of plotting was used.

Adjustment of Plot:

No unusual adjustment was necessary.

Interpretation:

The only symbols used were the graphic symbols as approved by the Board of Surveys and Maps 1932.

It was impossible to accurately trace the shoreline of the streams on the East of the Pee Dee River, so the general course of these streams have been indicated by leaving out detail between what appears to be trees on the banks of said stream.

No paved roads appear on this sheet.

Conflicting Names:

There are no charts for the territory covered by this compilation; therefore don't know of any conflicting names.

Comparison with other surveys:

A satisfactory junction has been made with the following sheets:

North - 5250, East- 5252, South - 5254, South 5253, West - Limit of Photographs.

Landmarks:

A list of landmarks and marked topographic stations will be submitted with Graphic Control sheet "H" Reg. No. *F-63286*, by J. C. Sammons, 1935. *There are no landmarks of importance for charting in the area of this compilation.*

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet has 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.

To the best of my knowledge, the sheet is complete, except for the small streams east of the Pee Dee River, and, as these are of such minor importance, no further surveys are required.

Remarks:

The pictures used in the compilation of this sheet are very good.

Assisted by:

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

Submitted by:

*Discharged*  
A. E. Nowell.

Date. Aug 15, 1935<sup>G</sup>

Chart No. \_\_\_\_\_

Diagram No. \_\_\_\_\_

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

Under investigation. Q

[illegible]



REVIEW OF AIR PHOTO COMPILATION T-5251

1:10,000 scale

Comparison with Graphic Control Survey

T-6328b (1935), 1:10,000 scale

There are no discrepancies between T-6328b and this compilation over the common area. All detail on T-6328b is also shown on this compilation except non-recoverable plane table positions. Only a small portion of this compilation in the southeast corner is covered by T-6328b. No landmarks or aids to navigation <sup>or recommended</sup> in this area have been submitted by the field parties working in this area.

There are no previous topographic surveys made by this Bureau in this area. No chart has been published covering this area.

Comparison with new Hydrographic Surveys

H-5840 (1935), 1:10,000 scale; H-5841 (1935), 1:10,000 scale.

There is no conflict between the hydrography on H-5840 and H-5841 and the topography on this compilation.

August 16, 1935.

*Leonard G. McIsaac*  
*Paul H. Eakin*

## REVIEW OF AIR PHOTO COMPILATION NO. 5251

Chief of Party: E. H. Kirsch

Compiled by: A. E. Nowell

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)
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)~~ *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 adequate for chart compilation. (Par. 16a, 43, and 44)  
*no sand coast.*

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)~~
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) *none*
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) *none*
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.*
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)
13. The geographic datum of the compilation is *N.A. 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.

±7. Remarks:

18. Examined and approved;

E. H. Kusch  
Chief of Party

19. Remarks after review in office:

Reviewed in office by: Frank G. Eosline

Examained and approved:

C. K. Green  
Chief, Section of Field Records  
L. O. Whit  
Chief, Division of Charts

J. B. Borden  
Chief, Section of Field Work  
G. H. de  
Chief, Division of Hydrography  
and Topography.