

# 5254

U. S. COAST & GEODETIC SURVEY  
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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 54  
~~Hydrographic~~ } Sheet No. Reg. 5254

State South Carolina

### LOCALITY

~~Magnolia Beach~~

~~Marrell Inlet to Midway Inlet~~

Waccamaw River

Magnolia Beach

193 4-5

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1924

# 5254

Applied to chart 836 Jan. 30, 1936 HRC.  
" " " 12 27 Oct 1937. PRC

Photo Nos.	Date	Time
235 through 244	August 4, 1934	8:45 A.M.
581 through 596	August 17, 1934	9:15 A.M.
PROJECTION BY	<u><i>L. C. Ripley</i></u>	11-3-34
PROJECTION CHECKED BY	<u><i>E. H. Kirsch</i></u>	11-3-34
CONTROL PLOTTED BY	<u><i>M. L. Smith</i></u>	11-3-34
CONTROL CHECKED BY	<u><i>E. S. Ethridge</i></u>	11-5-34
CONTROL PLOTTED ON PHOTOS BY	<u><i>J. F. Richardson</i></u>	9-27-34
CONTROL CHECKED ON PHOTOS BY	<u><i>R. G. Hickson</i></u>	October 1934
TOPOGRAPHY TRANSFERRED BY	<u><i>Discharged</i></u>	
TOPOGRAPHY CHECKED BY	<u><i>P. W. Hund</i></u>	
SMOOTH RADIAL PLOT BY	<u><i>R. G. Hickson</i></u>	
RADIAL PLOT CHECKED BY	<u><i>Discharged</i></u>	1-2-35
SCALE PLOT BY	<u><i>T. P. Mitchell</i></u>	12-15-34
DETAIL INKED BY	<u><i>Discharged</i></u>	1-29-35

AREA DETAIL INKED: 19.28 Sq. St. Miles.

LENGTH OF SHORELINE: 7.5 St. Miles (Over 200 meters wide)

LENGTH OF STREAMS: 13.25 St. Miles (less than 200 meters wide)

LENGTH OF COASTLINE: 5.75 St. Miles.

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. 54

REGISTER NO. 5254

State South Carolina

General locality ~~Magnolia Beach~~ Waccamaw River

Locality ~~Murrell Inlet to Midway Inlet~~ Magnolia Beach

Photographs - Aug. 4, & 17, 1934

Scale 1:10,000 Date of ~~survey~~ Compilation Jan. 29, 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 total area covered by this sheet is 19.28 St. miles. The Waccamaw River is the only stream more than 200 meters wide. 7.5 St. miles of this river appear on this sheet. There are 13.25 St. miles of streams less than 200 meters wide.

### Report:

The greater portion of the area covered by this compilation is heavily wooded high ground. A small portion of the high ground is cleared and utilized for farming. The remainder of the compilation is made up of sandy beach and abandoned rice fields. These rice fields are grown up in fresh water marsh. In general this area is of the low coastal plain type with slight relief.

### Photographs:

Photographs from two flights were used in the compilation of this sheet.

The photographs, in general, were good and of good scale.

The following photographs were used:

235 through 244, made August 4, 1934 at 8:45 A.M., 15 min. before low tide.  
581 through 596, made August 17, 1934 at 9:15 A.M., 3 hours 13 minutes before low tide.

The photographs were made with a H-U-I- 33, U. S. Army Air Corps 5-lens Camera, operated by the Aero Service Corp., of Philadelphia, Pa.

## CONTROL

### Sources:

The control used in the compilation was established or recovered by K. G. Crosby, 1934; C. D. Meaney, 1932; E. B. Roberts, 1924, and traverse stations located by the State of South Carolina in 1934.

Control established by Crosby, Meaney, and Roberts has been office adjusted to N. A. 1927 datum. The state of South Carolina Traverse is unadjusted to N. A. 1927 datum.

### Errors:

No errors were discovered in the control when making the smooth radial plot.

This portion of River Road between  $33^{\circ}27.8'$  and  $33^{\circ}29.5'$  has been traced in this office as well as possible from the photographs. The probable error of position of this section of this road may exceed the values as given on page 3 of this report under Recommendations for Further Surveys."

L.A.M.

Aug 29, 1935.

Discrepancies:

State traverse was used in addition to stations established by parties of this organization.

COMPILATIONMethod:

The standard radial line method was used as described in the U. S. Coast and Geodetic Survey notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs.

Adjustment of Plot:

No unusual adjustments were necessary in making the plot.

Interpretation:

All topographic symbols were taken from the topographic manual.

The pictures were not as clear as they might have been for the marsh and sandy areas shown in the extreme northeastern section of the sheet in other words east of Long  $79^{\circ} 04'$ . We feel that our interpretation is such that there is little departure, if any, from the actual conditions.

The road known locally as ~~river road~~ <sup>River Road.</sup> runs in a north easterly direction across the sheet, but a portion of same, between Lat.  $33^{\circ} 30'$  and  $33^{\circ} 27'$  has not been shown since it could not be traced from the pictures, due to overhanging trees and shadows. (See opposite page.)

Chart No. 1237 shows a creek (no name) back of the beach running the full length ~~of the area covered by~~ this sheet. This creek does not exist today.

There are two dashed parallel lines across this sheet (east and West), this is a fire lane, all brush is kept out of the area between the lines so as to protect the forest from fires.

Conflicting Names:

There are no conflicting names.

COMPARISON WITH OTHER SURVEYSJunctions:

Satisfactory junctions were made with the following:

Sheet No. 51, Reg. No. 5251 on the North.

Sheet No. 52, Reg. No. 5252 on the North  
Sheet No. 53, Reg. No. 5253 on the West.  
Sheet No. 57, Reg. No. 5257 on the South

The Atlantic Ocean on the East.

Landmarks:

G.C. Sheets G, Reg. No. *T-6328a*, "H" Reg. No. *T-6328b*  
J. C. Sammons, Chief of Party, 1935 cover the Waccamaw River as shown on this compilation. These sheets should be consulted for landmarks and marked topographic stations. There are no A. C. Sheets along the outside coast. Triangulation Station PENTHOUSE, Crosby 1934, might be considered as a landmark. It has not been submitted on the regular form as such. It is a water tank on top of the home of A. M. Huntington, and is about 35 feet above the ground.

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to be accurate and complete for charting purposes and no additional surveys are necessary. A probable error of not more than 0.3 mm may be found in detail of importance for charting and not over 0.6 mm in detail of lesser importance.

Assisted by:

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

Submitted by:

*Discharged*  
A. E. Nowell.



Date. Aug 28. 1935 **GEOGRAPHIC NAMES**

Survey No. T-5254

Chart No. 1237

Diagram No. 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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Magnolia Beach</u>	same		✓	
	<u>Waccamaw River</u>			✓	
	<u>Brookgreen Creek</u>			✓	
	<u>Thoroughfare Creek</u>			✓	
	<u>Waverly Creek</u>			✓	
	<u>Sandy Island</u>			✓	
	<u>Oatland Creek</u>	(Approved in H-5840 rpt.)		✓	
	Names have been approved on H 5840				
	<u>Waverly Mills</u>			on sheet L.H. (1/22/42)	
	<u>Brookgreen Gardens</u>			"	

Names underlined in red approved by [signature] on 1-30-36

Names underlined in red approved by [signature] on 1-30-36

REVIEW OF AIR PHOTO COMPILATION T-5254  
SCALE 1:10 000

Comparison with Graphic Control Surveys:

T-6238a and T-6238b (1934) (1:10 000). No discrepancies.

All detail on T6238(a) and T6238b) within the area of this compilation is shown on the compilation except for the magnetic declinations and temporary planstable stations.

Comparison with previous topographic surveys:

T-1280b, (1872) 1:20 000. <sup>scale.</sup> There have been many changes in roads and considerable change in the coast line particularly at Murrell Inlet. <sup>Just above North border of this sheet</sup> This compilation is complete and adequate to ~~cover the~~ supersede the section of T-1280(b) which it covers.

T 4198, (1926) 1:20 000. <sup>scale.</sup> T4198 covers the coastal area from Floral Beach to North Inlet. Large changes have occurred in the outer coast line particularly at Lat. 33° 31'. The compilation is complete and adequate to supersede the section of T-4198 which it covers.

Comparison with new Hydrographic Surveys:

H 5840 (1935). The trees, stumps, and piling shown on H-5840 <sup>in Hacc Waccamaw R.</sup> cannot be seen on the photos and are not shown on this compilation. No conflicts between shoreline and soundings.

Comparison with the- Chart 1237: No landmarks are shown on the present chart and none have been submitted with the graphic control surveys or this compilation in this area.

Leonard A. Hulsman  
Aug 31, 1935.  
B.G. Jones



## REVIEW OF AIR PHOTO COMPILATION NO. 5254

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)

*Position of High water line on Sand beach obtained from field inspection notes on field photos.*

*Lam.*

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)~~
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 are available for this area.*
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.

✓ 17. Remarks:

✓ 18. Examined and approved;

E. H. Kirsch  
Chief of Party

19. Remarks after review in office:

Reviewed in office by: Lemard A. Williams August 31, 1935.  
B. G. Jones

Examined and approved:

C. F. Green  
Chief, Section of Field Records

L. O. Polk  
Chief, Division of Charts

J. B. Borden  
Chief, Section of Field Work

G. H. de  
Chief, Division of Hydrography  
and Topography.