

5249

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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
~~Hydrographic~~

Field 49

Sheet No. Reg. 5249

State South Carolina

LOCALITY

Waccamaw and Pee Dee Rivers

Bucksport and Vicinity

1934-5

CHIEF OF PARTY

E. H. Kirsoh

U. S. GOVERNMENT PRINTING OFFICE: 1934

5249

Applied to chart 836 Feb. 6, 1936 H.R.C.

PHOTO NOS.	DATE	TIME
360 through 371	Aug. 3, 1934	8:40 A.M.
309 through 221	Aug. 4, 1934	8:20 A.M.
PROJECTION BY	<u>On leave</u>	11-7-34
Scale F. = 0.950.	L. C. Ripley	
PROJECTION CHECKED BY	<u>E. H. Kirsch</u>	11-7-34
	E. H. Kirsch	
CONTROL PLOTTED BY	<u>W. W. Johnson</u>	11-12-34
	W. W. Johnson	
CONTROL CHECKED BY	<u>F. H. McBeth</u>	11-13-34
	F. H. McBeth	
CONTROL PLOTTED ON PHOTOS BY	<u>E. J. Anderson</u>	Oct. 1934
	E. J. Anderson	
CONTROL CHECKED ON PHOTOS BY	<u>Transferred</u>	Oct. 1934
	L. C. Lande	
SMOOTH RADIAL PLOT BY	<u>E. S. Ethridge</u>	Jan. 1935
	E. S. Ethridge	
RADIAL PLOT CHECKED BY	<u>W. W. Johnson</u>	1-19-34
	W. W. Johnson	
SCALE PLOT BY	<u>Transferred</u>	Dec. 1934
	L. C. Lande	
TOPOGRAPHY TRANSFERRED BY	<u>R. G. Hickson</u>	3-19-35
	R. G. Hickson	
TOPOGRAPHY CHECKED BY	<u>P. W. Hund</u>	3-19-34
	P. W. Hund	
DETAIL INKED BY	<u>W. W. Johnson</u>	2-16-35
	W. W. Johnson	

AREA OF DETAIL INKED: 26.8 square statute miles.

LENGTH OF COASTLINE: None

LENGTH OF SHORELINE: None (more than 200 meters wide).

LENGTH OF STREAMS: 27.6 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. 49

REGISTER NO. 5249

State South Carolina

General locality Waccamaw and Pee Dee Rivers

Locality Bucksport and Vicinity

Scale ~~10,000~~ 1/10,000 Photographs - Aug. 4 and 5, 1934
~~10,000~~ Date of ~~survey~~ Compilation - Feb. 16, 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 W. W. Johnson, Jr.

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. Blue print scale 1/10,526 registered

GENERAL REPORT

Comparatively The area covered by this sheet is mainly heavily wooded though rather thickly populated, as denoted by the large number of houses found in the cleared portions. The areas adjacent to the streams are cypress swamps having no definite edge. Since there is no line of demarcation between the cypress swamp and the pine and oak covered areas west of the Waccamaw River, the marsh symbol was not extended in that direction. The same condition holds true along the Pee Dee River, though to a lesser degree.

Statistics:

No coastline appears on this sheet, there are no streams more than 200 meters in width; and there are 27.6 statute miles of streams less than 200 meters in width.

Photographs:

Sheet No. 49, Reg. No. 5249 was compiled from photographs in two flights. Photos 360 through 371 were taken on August 5, 1934 at 8:45 A.M. approximately 2 hours and 12 minutes after low tide. Photos 209 through 221 were taken on August 4, 1934 at 8:25 A.M. approximately 2 hours and 45 minutes after low tide. Time of tide was based on tide gauge located at Conway.

CONTROL

Sources:

Triangulation station SALEM, C. D. Meaney 1932. Station ENTERPRISE K. G. Crosby 1934. Traverse by the state of South Carolina with P.W.A. funds.* Stations NEW and STACK by J.C. Sammons 1935, G.C.S. "J" Reg. No. T-6329, by J. C. Sammons 1935. Control established by Meaney and Crosby has been adjusted to N. A. 1927 datum. Control established by the state of South Carolina is ~~unadjusted~~ ^{field adjusted} to N. A. 1927 datum.
** The traverse stations are all marked C.W.A. for this traverse work was started under the Civil Works Administration. Jan. Sept 6, 1935.*

Errors:

There were no errors found in control.

Discrepancies:

No discrepancies were found in any control used in compiling this sheet.

COMPILATION

Method:

The usual radial line method was used in making the plot.

Adjustment of Plot:

No unusual adjustment of the plot was necessary.

Interpretation:

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

Interpretation of the exact location of the highwater lines were difficult because of overhanging trees. This was especially so where the streams appeared quite a distance out on the wings of the photos, and where the compiler was unable to find photos on which the direction of the stream was approximately parallel to the radial lines.

The small stream crossing Latitude $33^{\circ} 40'$ just west of $79^{\circ} 08'$ was shown between two rows of the bush symbol due to the fact that only the shadows of overhanging trees revealed the location of the stream.

Information from other Sources:

A definite line, found on the 200 flight of photographs, was not shown on the compilation except where it appeared in the open as a trail. This line is the bed of an abandoned railroad - one of the first in this section of the country. The rails have been removed, although the ties remain on the bed. Parts of the old railroad bed is used as wagon trails by the natives.

The above information was furnished by H. W. Langley of this party. Mr. Langley is a native of this section.

The line described above bears northward from just North of $33^{\circ} 39'$ and east of $79^{\circ} 07'$ for approximately 1.5 miles, then veers off in a northwesterly direction.

Information regarding the highway bridge across the Pee Dee River was furnished by the field party and was obtained by them ^{by} actual measurements. This information is given under "Remarks" below.

The watchman's house on this bridge was radial plotted in as a landmark. This house is located approximately twenty ft. above the floor of the bridge which is 50.2 ft. above mean low water. The house is approximately ten feet high, making a total of approximately 80 feet above mean low water. A watchman is on duty at all times to give warning in case of forest fire, or fire on the long wooden causeway which forms the approaches to the steel span.

Conflicting Names:

No conflicting names occur on this sheet.

Remarks:

The bridge across the swamp on both sides of the Pee Dee River is approximately 2550 meters long. The center span crossing the river itself is a fixed steel truss type with a vertical clearance of 50.2 ft. at mean low water. The horizontal clearance is 52.1 meters. The approaches crossing the swamp are of wood.

COMPARISON WITH OTHER SURVEYS

There are no U.S.C. & G.S. Charts covering this area.

Junction:

Satisfactory junctions were made with the following sheets:
North - 5248; South - 5250; East - 5246 (1:20,000). No sheet joins this compilation on the west.

Landmarks:

The list of landmarks for charts and marked topographic stations will be submitted by Lt. J. C. Sammons along with G.C. Sheet "j" Reg. No. 7-6329, 1935. See also form No. 567 attached to this report. No landmarks have been submitted by the field party for the area of this compilation. One landmark has been recommended by the compiler and its position is attached to this report.

RECOMMENDATIONS FOR FURTHER SURVEYS

This sheet is believed to have a probable error of not more than 0.3 mm for well defined detail of importance for charting, and not more than 0.6 mm for other detail.

To the best of my knowledge this sheet is complete for all important detail and no further surveys are required.

Assisted by:

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

Submitted by:

W. W. Johnson, Jr.
W. W. Johnson, Jr.

Date. Sept. 5, 1935 ^{GL}

Chart No.

Under investigation. Q

(M-13E

REVIEW OF AIR PHOTO COMPILATION T-5249

Scale 1:10,000

Comparison with Graphic Control Survey

T-6329 (1935), 1:10,000 scale.

There are no serious discrepancies between T 6329 and this compilation over the common area. A small error in the high water line occurs just north of triangulation station Stack, 1935 on T-6329. All detail on T-6329 is shown on this compilation in their common area except temporary signals and the magnetic meridian.

Comparison with New Hydrographic Surveys

H-5842 (1935), 1:10,000 scale.

The stumps, snags, piles, etc. shown in the Waccamaw River and its tributaries are not shown on this compilation for they have not been transferred and cannot be seen on the photographs covering this area. There is no conflict between the soundings on H-5842 and the topography on this compilation.

There are no previous topographic surveys of this area by this Bureau. No chart has been published for this area. No landmarks have been submitted by the field party for the area of this compilation. One landmark has been recommended by the compiler and its ^{position} is attached to this descriptive report.

L. A. McGANN
L. A. McGANN

Sept. 6, 1935.

Frank G. Enslin

REVIEW OF AIR PHOTO COMPILATION NO. 5249

Chief of Party: E. H. Kirsch

Compiled by: W. W. Johnson

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)
No chart available in this area.
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)
T-6329.
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)

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) *now shown.*
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)
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)
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 in 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:

Ronald A. Kirsch Sept. 6, 1935.
Frank G. Kirsch

Examined and approved:

C. H. Green
Chief, Section of Field Records

L. O. Colbert
Chief, Division of Charts

H. B. Jordan
Chief, Section of Field Work

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

