

5248

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 48
Hydrographic } Sheet No. Reg. 5248

State South Carolina

LOCALITY

Waccamaw River

~~Buckville to a mile north of Toddville~~

Toddville and Vicinity

1934-5

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

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4
2
10

SHEET NO. 48
REG. NO. 5248

PHOTO NOS.
373 - 383
220 - 224

DATE
Aug. 5, 1934
8-4-34

TIME
8:40 A.M.
8:20 A.M.

PROJECTION BY

On leave
L. C. Ripley

11-8-34

PROJECTION CHECKED BY

E. H. Kirsch
E. H. Kirsch

11-8-34

CONTROL PLOTTED BY

W. W. Johnson
W. W. Johnson

11-12-34

CONTROL CHECKED BY

F. H. McBeth
F. H. McBeth

11-12-34

CONTROL PLOTTED ON PHOTOS BY

E. J. Anderson
E. J. Anderson

Oct. 1934

CONTROL CHECKED ON PHOTOS BY

Transferred
MDD. Crook

Oct. 1934

SMOOTH RADIAL PLOT BY

Transferred
L. C. Lande

1-20-35

RADIAL PLOT CHECKED BY

Transferred
L. C. Lande

1-21-35

SCALE PLOT BY

Transferred
L. C. Lande

DETAIL INKED BY

Transferred
L. C. Lande

2-20-35

AREA DETAIL INKED; 20.6 square statute miles.

LENGTH OF COASTLINE: None

LENGTH OF SHORELINE: None

LENGTH OF STREAMS: 12.4 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. 48

REGISTER NO. 5248

State South Carolina

General locality Waccamaw River

Locality Toddville and Vicinity
~~Buckville to a mile north of Toddville~~

Scale 10,000 Photographs - Aug. 4 and 5, 1934
1:950 Date of ~~survey~~ Compilation - Feb. 20, 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 L. C. Lande

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 compilation is 20.6 St. miles. There are no streams more than 200 meters wide that appear on this compilation. There are 12.4 St. Miles of streams less than 200 meters in width namely the Waccamaw River and tributaries.

Report:

The area represented on this compilation east of the Waccamaw river is heavily wooded high ground. The portion to the west of the river is largely a farming section. A cypress swamp abuts and follows the river the full extent of this compilation.

Photographs:

Photographs from part of two flights were used in the compilation of this sheet. The 300 flight with photos numbering from 373 to 383 running parallel and just to the west of the Waccamaw River. This flight was taken August 5, 1934 at 8:40 A.M. The 200 flight with photos numbering from 220 to 224 runs approximately parallel and about 3 miles to the west of the Waccamaw river. This flight ends with photo number 224. This flight was taken August 4, 1934 at 8:20 A.M.

No trouble was experienced in transferring topography as the photos as a whole were clear and with very little scale fluctuation. All photos were taken with a standard U. S. Army Air Corps type 5-lens aerial camera No. T3a-HUI 33.

CONTROL

Sources:

The only control used in the compilation was traverse stations located by the State of South Carolina in 1934. These are computed on N. A. 1927 datum, but they are unadjusted.

There are no Graphic Control sheets covering this area.

Errors:

No errors were found in plotting control on this sheet.

Discrepancies:

No discrepancies were found in the control used in the compiling of this sheet.

COMPILATION

Method:

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 or compiling this sheet.

Interpretation:

It was very difficult to determine the high water line along the river due to some cypress trees growing in the water and others overhanging its banks. A probable error of one millimeter may exist along the Waccamaw River between latitudes $33^{\circ} 42.6'$ and $33^{\circ} 44'$ due to its distance from the center of the photos and the elevation of the trees along its banks although everything possible was done to get the correct H.W.L. An approximate distance as to how far the cypress swamp extended back from the river was obtained from studying the photographs as there were no field notes available in this area. The cost of field notes to determine the edge of the cypress swamp would be prohibitive as there are no roads or control in this heavily wooded area.

No other topographic symbols were used other than those shown in the topographic manual.

Information from other Sources:

No information was obtained from other sources.

There is a dock at Toddville, but is invisible on the photos. Since there is no G.C.S. for this area, the dock was omitted.

Conflicting names:

There are no conflicting names on this sheet. The names were furnished by the compiler of sheet 47 who is a native of this section.

Comparison with other surveys:

There are no former charts of the area, or geological quadrangles.

Junctions:

Satisfactory junctions have been made with the following: Sheet No. 5247 on the North; 5246 on the East, and 5249 on the South.

On the west the compilation was carried to the limit of the photographs.

Landmarks:

There are no prominent landmarks for aid to navigation.

Remarks:

Lt. B. H. Rigg will make some tide observations in this area on the Waccamaw River at a later date.

Recommendation for further surveys:

Except for the above mentioned portion of the Waccamaw River shoreline. It is felt that this compilation is accurate and thorough and complete for charting purposes and that no additional surveys are necessary. A probable error of not more than .3 millimeters may be found in detail of importance for charting and not over .6 millimeters in detail of lesser importance.

Assisted by:

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

Submitted by:

Transferred
L. C. Lande.

L. C. Lande.

Survey No. T-5248

Date. Sept. 5, 1935. GEOGRAPHIC NAMES

Chart No. _____

Diagram No. _____

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

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

Under investigation. Q

[illegible]

REVIEW OF AIR PHOTO COMPILATION T5348
Scale 1:10 000

There are no graphic control surveys in this area and no previous topographic surveys of this Bureau.

The trees, stumps, ^{and} old piles, ~~and are~~ shown in the Waccamaw River on the new hydrographic Survey H 5843, 1935, do not show on the photographs and are not shown on this compilation. There is no ~~conflict~~ conflict between information on this compilation and H 5483.

Leonard G. McGinnis
September 5, 1935
B. G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. 5248

Chief of Party: E. H. Kirsch

Compiled by: L. C. Lande

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 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)
none
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)

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) *none 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) *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) *no prominent landmarks in this area.*
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 for this area are available for a geographic name comparison.*
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. Knoch
Chief of Party

19. Remarks after review in office:

Reviewed in office by: Leonard A. Melville, September 5, 1935.
B. G. Jones.

Examined and approved:

E. F. Green
Chief, Section of Field Records
L. O. Colburn
Chief, Division of Charts

W. B. Borden
Chief, Section of Field Work
G. H. Rude
Chief, Division of Hydrography
and Topography.