DESCRIPTIVE REPORT
Field 38

Air Photo

Topographic Sheet No. Reg. 5190

State... SOUTH CAROLINA

LOCALITY

BROAD RIVER

BROAD RIVER and CANAMEE RIVER

POCOTALIGO RIVER & VISINITY

1924

CHIEF OF PARTY

E. H. KLECK

U.S. GOVERNMENT PRINTING OFFICE: 1924
PHOTOS NO.
828 through 840
1083 through 1105
1034 through 1038

DATE
September 29, 1933
October 10, 1933
October 10, 1933

TIME
1:15 - 1:20 P.M.
11:15 - 11:50 A.M.
11:15 A.M.

PROJECTION BY
L. C. Ripley 5-28-34

PROJECTION CHECKED BY
E. H. Kirsch 5-28-34

CONTROL PLOTTED BY
J. H. Wulbern 5-29-34

CONTROL CHECKED BY
L. C. Ethridge 5-30-34

CONTROL PLOTTED ON PHOTOS BY
SAVANNAH OFFICE

CONTROL CHECKED ON PHOTOS BY
SAVANNAH OFFICE

S
SMOOTH RADIAL PLOT BY
E. S. Ethridge 6-21-34

SMOOTH RADIAL PLOT CHECKED BY
Paul W. Hund 6-26-34

SCALE PLOT BY
L. C. Lande 5-23-34

TOPOGRAPHY CHECKED BY
E. J. Anderson 6-27-34

DETAIL INKED BY
Paul W. Hund 7-3-34

AREA OF DETAIL INKED: 83.7 Square Statute Miles (Land Area).

LENGTH OF COASTLINE: None.

LENGTH OF STREAMS: 12.7 St. Miles (200m or more from opposite shore).

LENGTH OF STREAMS: 70.2 St. Miles (less than 200 meters wide).
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....38

REGISTER NO. 5190 5190

State.. South Carolina

General locality... Broad River

Locality... Broad River and Pawtawiga River. Pawtawiga River vicinity

Photographs - September 29, 1933

Scale. 21.62 Date of survey October 10, 1933

Compilation - July 3, 1934

Vessel Air Photo Compilation Party No. 21, Charleston, S. C.

Chief of party... E. H. Kirsch

Surveyed by.. See descriptive report

Inked by... E. H. Hund

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 DESCRIPTION OF TOPOGRAPHY

This area, from Boyd's Creek northeastward to the Combahee River, is in general low marshy land interspersed with areas of high ground having little relief. The high ground area is composed of forests of pine and oak and cleared portions which are used for farming and grazing.

GENERAL INFORMATION

Statistics:

There are 83.7 square statute miles of land area covered by this compilation, 12.7 statute miles of streams which are more than 200 meters wide, and 80.2 statute miles of streams and sloughs less than 200 meters wide. There is no coastline on this sheet.

General Report:

The general report of this area is covered under "General Description of Topography".


Photographs:

This sheet was compiled from photographs taken on three flights, made by the U.S. Army Corps' 5-lens Aerial Camera. Photos 826 through 840 were taken on September 29, 1934 at 1:15 - 1:20 P.M. being 1 hour and 33 minutes from last picture taken to the time of low tide. Photos 1035 through 1105 were taken October 10, 1933 at 11:45 to 11:50 A.M. being 40 minutes from last picture taken to the time of high tide. Photos 1034 through 1038 were taken October 10, 1933 at 11:15 A.M.

CONTROL

Sources:

The following control stations were established by C. D. Meaney in 1932: GARDNER, SHELDON, and RIDGELAND. Control station: SHELDON was established by E. B. Roberts in 1924. The remaining control stations used in this compilation were established by C. A. Egner in 1933. A traverse from stations GREEN POND to GARDNER was run in by Lt. B. H. Rigg, 1934.

All control was reduced to 1927 datum.

The following traverse stations are shown with blue triangles.

(These stations do not appear on the printed copies of this compilation.) Not recoverable

TP-10: 6766.0 ft. Lat. 32° 36' 1934.2 Meters : Long. 80° 43' 1003.8 Meters

TP-10

32 37 992.2
80 43 1070.5
Errors:

No errors were found in control by the photo plot.

Discrepancies:

No control stations established by other organizations were used in the compilation of this sheet.

Compilation

Method:

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

Adjustment of Plot:

Some difficulty was encountered in the making of the smooth radial plot as some of the pictures were badly tilted - photo 1096 was not used since it was badly distorted.

Interpretation:

Only the usual graphic symbols were used as approved by the Board of Surveys and Maps (1932).

The photographs in the 800 flight were rather difficult to interpret since many portions were hidden by clouds or cloud shadows.

Boundaries of shoal water in Whale Branch were shown with a dash line, solely from their appearance on the photos and consequently there may be some departure from actual conditions.

Information from other sources:

Information in regard to the R.R. Bridges over Boyd's Creek, Broad River, Hospa Creek and Whale Branch, and the highway Bridge over Whale Branch was obtained from the U.S. Army Engineers. Also T-6105, T-6128, and T-6129.

Conflicting Names:

No conflicting names were discovered.

Remarks

-

Bridges:

S.A.L. Bridge over Boyd's Creek is a fixed Girder Span having a horizontal clearance of 40 ft., Vertical clearance at mean high water is 13½ ft.

S.A.L. Bridge over Broad River is a drawbridge of the Swing type having a horizontal clearance of 50 ft., on each side of the
Note: The topographic stations mentioned in the opposite paragraph have been plotted in the office as they can be shown without incurring the detail.

B.G. Jones
central pier, and a vertical clearance, when closed of 7' 0".

S.A.L. Bridge over Hospa Creek is a fixed girder span having a horizontal clearance of 40 ft., and a vertical clearance at mean high water of 13' 0".

C. & W. C. Bridge over the Southern Channel of Whale Branch is a drawbridge of the swing type having a horizontal clearance on each side of the center pier of 50 ft., and a vertical clearance at mean high water when closed of 5.6'.

The highway bridge over Whale Branch is a drawbridge of the swing type having a horizontal clearance of 34.6' on each side of the central pier, and a vertical clearance at mean high water when closed of 5.0'.

COMPARISON WITH OTHER SURVEYS:

Comparison with U. S. C. & G. S. Chart No. 437 shows no discrepancies.

Junctions:

Satisfactory junctions were made with the following sheets:

Northeast - Sheet 5163
Southeast - Sheet 5189
Southwest - Savannah

After compiling this sheet a comparison was made with topo sheets E, F, and G, in order to establish important landmarks on this sheet. It was found that landmarks "Pin and Dol" the Southwest and Northeast fender dolphins of the C. & W. C. R. R. Bridge over the Southern Channel of Whale Branch checked with the points taken from photographs, but since it would be confusing to the compilation to encircle these points with a black circle as has been done previously, they were left with only a pin prick for their location. In like manner topo point Tow:(tower on Pump House) was shown with only a pin prick since it is so close to triangulation station SEA that its point of location falls inside the triangle showing that triangulation station. The topo point "S.E. Cor. Chy. - E. Side E. House" has been shown with a black circle. All these points mentioned above were transferred from A.C.S. "E" Reg. No. T-6105, Lt. Rittenberg 1933. See office logs.

Landmarks:


RECOMMENDATION FOR FURTHER SURVEYS

This compilation is believed to have a probable error of not more than 3 meters in well defined detail of importance for charting
and not more than 6 meters in other detail. See below.

To the best of my knowledge this sheet is complete in all detail of importance for charting and no additional surveys are required.

Assisted by:
E. H. Kirsch
Chief of Party.

Submitted by:
P. W. Hund
F. W. Hund.

The value of 3 to 6 meters given above is too high for work on this scale. A better estimate is an accuracy of location of 5 to 8 meters for intermediate points and 5 to 15 meters for other detail.

B. F. Jones
REVIEW OF AIR PHOTO COMPILATION NO. T-5190

Chief of Party: E. H. KIRCH

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 wharves, 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. Blueprints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28). No transmission.

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. 16b; 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."
9. 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)
Descriptive statements furnished with T-6105, T-6129, T-6130.

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)
Descriptive statements T-6105, T-6129, T-6130.

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. 16e)
(See following pages.)

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)

Name Comparison made with Youngssee Quadrangle of U.S.G.S.

13. The geographic datum of the compilation is N.A. 1927 and the
reference station is correctly noted.
Datum Sta. is adjusted.

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, 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;

[Signature]
Chief of Party

19. Remarks after review in office:

See next page.

Reviewed in office by: [Signature]

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.
REVIEW OF AIR PHOTO COMPILATION NO. T-5190 (1934)

Topographic Stations

The following recoverable topographic stations are described on Form 524 shown on the compilation with the conventional circle.

- TOW (d)
- Chimney(d)
- PEN (d)
- DOL (d)

Description filed under T-6105

Description filed under T-6128
- S. W. End of Truss. (d)
- N. E. End of Truss. (d)

Description filed under T-6129 - PEG (d)

Comparison with other Surveys

1. Plane Table Control Surveys T-6105, T-6128, T-6129 (1934). These show control points only. All recoverable topographic stations have been transferred in the Washington office, December 19, 1934.

   Stations plotted by - L. A.Lucken
   Checked by - J. H. Benson

2. Previous Topographic Surveys. T-997 (1865) is superseded by this compilation. Comparison shows only minor changes most of which are in the small areas.

   The bridge clearance of 7 feet given at top of page 3 is NOT shown on the compilation as no reference plane is given. The U.S. Engineers' Bridge List for 1927 gives a H.W. clearance of 15.1 feet.

   [Signature]

   [Signature]
# GEOGRAPHIC NAMES

Survey No. T-5190

Date: April 4, 1935

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

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<th>Name on Chart</th>
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<th>Names assigned by Field</th>
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Note: names marked "*" accepted subject to decision of D.G.N.