

5126

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

Topographic | Sheet No. 5126
~~Hydrographic~~

State Georgia

LOCALITY
West of St Simon Sound
Georgia - East Coast

Upper Reaches of Little Satilla River

1935

CHIEF OF PARTY

S. B. Grenell

5126

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.

REGISTER NO. 5126

State Georgia

General locality West of St. Simon Sound
Georgia - East Coast

Locality Upper Reaches of Little Satilla River

Scale 1:20,000 Date of Photographs 12-22-33
Survey Camp, 19...

Vessel Aerial Photo. Compilation Party No. 18

Reviewed and recommended for approval
Chief of party Lieut. (j.g.) S. B. Grenell

Photographs plotted by: F. B. Hickman
~~Survey Party~~

Inked by W. C. Oliver

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated November 10, 1933, 19...

Remarks: Compilation of aerial photos. Nos. (M-67) 12 to 29;

172 to 186

...

--NOTES OF COMPILATION--

One copy of this form must accompany each chart from beginning to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnell will endeavor to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the chart compiled is based upon the information contained herein.

SHEET No. 5126

	M-67 170		M-67 186
PHOTO NO.	M-67 12	to PHOTO NO.	M-67 32
BY		START	FINISH
ROUGH RADIAL PLOT	<u>B. B. Lewis</u>		
SCALE FACTOR (.925)	<u>B. B. Lewis</u>		
SCALE FACTOR CHECKED	<u>S. B. Grenell</u>		
PROJECTION	<u>A. M. Gruber</u>	<u>9-21-34</u>	<u>9-21-34</u>
PROJECTION CHECKED	<u>S. B. Grenell</u>		<u>9-21-34</u>
CONTROL PLOTTED	<u>W. R. Taylor</u>	<u>10-5-34</u>	<u>10-6-34</u>
CONTROL CHECKED	<u>A. A. Futral</u>	<u>10-8-34</u>	<u>10-8-34</u>
TOPOGRAPHY TRANSFERRED	<u>W. C. Oliver</u>		
TOPOGRAPHY CHECKED	<u>J. B. Hickman</u>		
SMOOTH RADIAL LINE PLOT	<u>F. B. Hickman</u>	<u>10-17-34</u>	<u>10-31-34</u>
RADIAL LINE PLOT CHECKED	<u>S. B. Grenell</u>		
DETAIL INKED	<u>W. C. Oliver</u>	<u>11-1-34</u>	<u>1-9-35</u>
AREA DETAIL INKED	<u>90.0</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m.	<u>0.0</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m.	<u>19.4</u>	Statute Miles	
GENERAL LOCATION	<u>St. Simon Sound</u> <u>East Coast of Georgia</u>		
LOCATION	<u>upper Reaches of Little Satilla River</u>		
DATUM STATION	<u>Brookman, 1933</u>	LATITUDE	<u>31-10 - 44.530 1371.4m</u>
DATUM	<u>N. A. 1927</u>	LONGITUDE	<u>81 - 37 - 34.431 911.7m</u> <i>(adjusted)</i>

INSPECTION REPORT
for
COMPILATION No. 5126

Scale : 1:20,000

REFERENCE:-

In reviewing this sheet in the Washington office reference should be made to the General Report for 5-Lens Compilations filed with compilation 5114.

GENERAL INFORMATION:-

This compilation covers the swamps and fast land area at the headwaters of the Turtle and Little Satilla Rivers. There is very little stream line within the tracing limits; the bulk of the area consisting of sand flats once heavily wooded but now partially logged off and burned over - especially where the original growth was pine.

There are numerous bands of low or semi-swamps land which is in general still heavily wooded and which is quite accurately indicated by the vegetation symbols. There is some cypress but the greater part of the growth is gum and trees of similar low grade lumber value, hence the minimum amount of clearing through lumbering operations in these sections.

The compiler has very thoroughly covered the important features in his report.

CONTROL:-

The only triangulation control in this area is the first order arc by C. D. Meaney, 1932 and the stations on this arc are so widely spaced that it happens that there is no triangulation station within the tracing limits of the compilation.

In order to control the radial plot it was necessary to run two loop traverses along the highways between triangulation stations in such a manner as to pass through sections of this compilation. The following is the data on number of stations, length and closures before adjustment of each traverse which will indicate the accuracy of the control used.

1st traverse between triangulation station BROOKMAN, 1932, and traverse station STERLING, 1921.

Length - 16.0 stat. mi.; stations - 30; closure - 5.2m.

2nd traverse between triangulation stations GEORGE, 1932 and FALK, 1934.

Length - 11.6 stat. mi; stations - 21; closure - 3.1m

In order to place the control where needed, it was necessary to run along winding dirt roads with stations only two and three hundred meters apart in places. This makes for a weak azimuth but the closures noted above are not excessive for that type of work and the control all held on the plot.

COMPARISON WITH CONTEMPORARY SURVEYS:-

All junctions with adjoining compilations are satisfactory. There have been no surveys made heretofore in this section so no comparisons could be made. The upper reaches of the Turtle River and Little Satilla River were enlarged to true 1:10,000 scale for Lieut. H. A. Paton and he sounded the streams controlling his sounding lines by the compiled shoreline.

NAMES ON OVERLAY SHEETS:-

All names were taken from Geological Survey Quadrangles.

Respectfully submitted,


S. B. Grenell,
Chief of Party No. 18

With reference to page 1 the supplemental traverses were not marked but many of the points are marked by pick points or holes on the celluloid and on the photographs and are thus ~~available~~ available for future control of air photographs.

B.G. Jones

REPORT OF COMPILATION:-

3

Radial Line Plot:

This sheet was compiled by the standard radial line plot method. No difficulty was experienced in running the plot through but there is no control on this sheet except for the two loops of traverses. The two traverses, one from triangulation station FALK to GEORGE. The other from triangulation stations BROCKMAN to STERLING were put in by a unit of our compilation party. The whole sheet is held together on common intersections, azimuths and the small amounts of traverse which fell on the pictures. The common points between the two flights held very well.

The radial plot was run through directly for all adjoining sheets of the same scale factor. Compilation No. 5124 has a scale factor of .915 and it was necessary, in making this junction, to intersect the radial points from 5124 in the overlap and then transfer them square by square with the projector and proportional dividers to the overlap of 5126 and proceed with the plot in the usual manner.

ADJUSTMENT OF PHOTOGRAPHS:-

No difficulty was experienced in adjusting the photographs on this sheet. The radial points were well selected and placed and only in the southwestern portion of the sheet was the system of interlacing necessary. This area caused by a break in the M-67 flight. The aviator stopped at picture 186 and when he came back to fill in the gap, evidently missed his bearings and reproduced a portion of the flight on further south; consequently the gap in the corner of the sheet. By the system of interlacing points, the road and railroad were carried across the gap.

INTERPRETATION:-

The photographs were very clear and no trouble was experienced in interpreting the detail. A double line of sand dots running from Lat. $31^{\circ} - 10'$ - - Long. $81^{\circ} - 38'$ to Lat. $31^{\circ} - 13.1'$ - - Long. $81^{\circ} - 45.5'$ represents an abandoned tram road bed which shows up very clearly in the pictures. The swamp area running from the upper reaches of the Little Satilla River westward across the sheet is indicated by broken water lining and symbols to represent gum and cypress trees. The narrow opening running through the trees parallel to the S. A. L. rail road shows a telegraph line. The wooded areas on this sheet are shown in detail because it was thought that the drainage of this area and the nature of the growth would be of value. Although not like swamp, these areas help to drain the land in wet weather and are composed largely of gum and cypress.

COMPARISON WITH CONTEMPORARY SURVEYS:-

The junctions with adjoining sheets were made in this office and are complete and satisfactory. The area covered by this sheet has not, here to fore, been covered by a survey and the shoreline appearing ~~xxx~~ in this area was used to control the hydrographic sheets.

COMPARISONS WITH OTHER SURVEYS:-

The area covered by this compilation has not been charted before; therefore, there are no details to be removed from the charts.

All information came directly from the photographs except for names of railroads, streams, swamps etc. which came from old Geological Survey Maps; Everett City Quadrangle and Bladen Quadrangle. The general features of these old maps are very similar to those of this compilation.

ACCURACY AND COMPLETENESS:-

The area covered by this sheet is complete in every detail. As nearly as can be determined from the photographs, all well defined detail is located with a probable error of not more than 4 meters; less well defined detail is located with a probable error of not more than 10 meters.

See Review

PHOTOGRAPHS:-

<u>No.</u>	<u>to</u>	<u>No.</u>	<u>Date</u>	<u>Time</u>	<u>Stage of Tide</u>
M-67	12	29	12-22-33	9:35 AM	7/8
M-67	172	186	12-22-33	11:10 AM	High Tide

* DATUM STATION

Due to the fact that a triangulation station does not fall within the tracing limits of this sheet, a datum station, triangulation station BROOKMAN, which falls on the border of the compilation, has been used.

W.C. Oliver
W. C. Oliver
Draftsman

Approved:

S. B. Grenell
S. B. Grenell

Date 4/27/35

GEOGRAPHIC NAMES

Survey No. 5126

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Waverly</u>	^{Georgia} U.S. Geological Survey	quad (Bladen)		
	<u>Ridgely Swamp</u>	" " "		✓	
	<u>Texas Swamp</u>	" " "		✓	
	^{Gowrie} <u>Gowrie Island</u>	" " "		✓	
	<u>Little Catalla River</u>	" " "		✓	
	^{Gowrie} <u>Gowrie Swamp</u>	" " "		✓	
	<u>Bradley Swamp</u>	" " "		✓	
	<u>Pyles Swamp</u>	" " "		✓	
	<u>Beak Swamp</u>	" " "		✓	
	<u>Brookman</u>	" " "		✓	
	<u>Colley Creek</u>	" " "		✓	
	<u>Submittin's Key</u>	" " "		✓	
	<u>Turtle Key Swamp</u>	" " "		✓	
	<u>Turtle River</u>	" " "		✓	
	<u>Green Creek</u>	" " "		✓	
	<u>Turkey Swamp</u>	" " "		✓	
	<u>Bladen</u>	" " "		✓	
	Gowrie Island				
	Bladen	" " "			
	<u>Jamaica</u>	^{Georgia} U.S. Geol. Survey	(Everett City Quad)		
	<u>O.C. R.R.</u>	" " "			
	<u>Anguilla</u>	" " "		✓	

Review of Air Photo Compilation T 5126 (1935)

Projection

The projection diagonals have been checked in the office and found correct. No further check was deemed necessary.

Comparison with other surveys and the charts

- (1) There are no contemporary plane table surveys in the area of this compilation.
- (2) This compilation covers a portion of the soundings that appear on H 5688 (1934) and H 5594 (1934) and they are in agreement.
- (3) There are no former surveys by this Bureau covering the area shown on this compilation.

Recoverable Stations

No described topographic stations appear on this compilation.

Triangulation stations plotted on the compilation in this office:

Nat (1934) *M. D. Crook*
Plotted by L. C. Lande; checked by M. D. Crook.

L. C. Lande

Remarks

The accuracy of location of 4 and 10 meters given on page 4 is high for work of this scale. A better estimate is an accuracy of location of 6 to 10 meters for intersected points and 10 to 15 meters for other detail.

Comparison with U. S. Geological Survey Bladen Quadrangle shows the compilation to be complete for the main roads. Only a very few of the numerous side roads are shown on the compilation. The drainage lines are indicated on the compilation by the cypress swamp and dense trees consisting mostly of gum as described on pages 1 and 3 of the report. These areas agree in general with the Bladen Quadrangle.

Approved
K T Adams

L. C. Lande
Y. B. Jones

REVIEW OF AIR PHOTO COMPILATION NO. 5126

Chief of Party: S. B. GREWELL

Compiled by: W. C. Oliver

Project: F. P. 4, Ga. Party #18

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 charts of 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)
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." M-97

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)

Form 524 by H.A. Paton, 1934 (if any?)

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)

Form 567 - 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.

17. Remarks:

18. Examined and approved; *March 20, 1935*



Chief of Party

19. Remarks after review in office:

Reviewed in office by: *L. C. Landy*
v Baggones

Examined and approved:

K. T. Adams

Asst Chief, Section of Field Records
Division of Charts
L. O. Polbert

Chief, Division of Charts

F. S. Boardman

Chief, Section of Field Work
G. H. Glauert

Chief, Division of Hydrography
and Topography.

June 5/24

Final Report for Air Photo Compilation 5/26

1. Sheet index.
 2. Air photo correct and marked adjusted or unadjusted; degrees and minutes correctly marked on projection.
- Note in review as to whether projection was checked and results. *Diagonal OK*

Check geographic names against standards and make name list.

Signs and markings checked against local light lists and corrections and omissions noted in review. Consult aid standards or U.S. L. Bureau in case of doubt as to which the aid was reliable.

none
Description of land use checked against compilation and corrections where necessary. Corrections noted in the review and cross references made where filling was changed. File list by sheet numbers made in the review.

Swiss

Comparison with other surveys:

a. Charts - for misspells and changes in latitude and other important details.

b. Air surveys. *None*

c. Land use surveys.

Plane-table control surveys - all detail of the plane-table control surveys is shown on the compilation sheet as noted in the review. Differences are discussed.

6/626
Δ Nat.

5/25

Plantable control surveys were used in construction of the compilation and are shown on the compilation sheet as noted in the review. Copy of the compilation review attached to back of plantable report if necessary. *None*

Production.

Quality of the plantable work.

Conclusions.

Recommendations.

References.

5/27

