

5125

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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. 5125
~~Hydrographic~~

State Georgia

LOCALITY
Vicinity of St. Simon Sound
Georgia - East Coast

Little Satilla River
Vicinity of Brunswick, Georgia

1935

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1934

5125

applied to new chart 448 (thru chart 84) July 1937 J.S.K.
applied to chart 1242 Mar. 16, 1939 g.K.S.

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. 5125

State Georgia

Vicinity of ST. Simon Sound ✓
General locality Georgia-East Coast

Little Satilla River ✓
Locality Vicinity of Brunswick, Georgia OK

Scale 1:20,000 Photographs 9-21-33; 9-20-33; 9-22-33
Date of ~~Survey~~ Comp. 19

Vessel Aerial Photo. Comp. Party No. 18

Reviewed and recommended for approval:

Chief of party Lieut. J. S. S. B. Grenell *S. B. Grenell*

Photographs plotted by: F. B. Hickman
~~Surveyed by~~

Inked by J. B. Williams, 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: Compilation of aerial photographs Nos. M-67 12 to 28;

M-66 93 to 110; M-66 111 to 113.

SCALE OF FINISHED PRINT 1:20,000

SCALE OF BLUEPRINT 1:21,630

--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. 5125

PHOTO NO.	M-67 11	to PHOTO NO.	M-67 31
	M-66 91		M-66 114
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>9-20-34</u>	<u>9-21-34</u>
PROJECTION CHECKED	<u>Warren Fitch</u>	<u>9-21-34</u>	<u>9-21-34</u>
CONTROL PLOTTED	<u>A. A. Futral</u>	<u>10-3-34</u>	<u>10-5-34</u>
CONTROL CHECKED	<u>W. R. Taylor, Jr.</u>	<u>10-6-34</u>	<u>10-8-34</u>
TOPOGRAPHY TRANSFERRED	<u>J. B. Williams, Jr.</u>	<u>Various</u>	<u>Times</u>
TOPOGRAPHY CHECKED	<u>S. B. Grenell</u>	<u>"</u>	<u>"</u>
SMOOTH RADIAL LINE PLOT	<u>J. B. Hickman</u>	<u>10-19-34</u>	<u>10-29-34</u>
RADIAL LINE PLOT CHECKED	<u>S. B. Grenell</u>		
DETAIL INKED	<u>J. B. Williams, Jr.</u>	<u>10-30-34</u>	<u>12-8-34</u>
AREA DETAIL INKED	<u>60.0</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m.	<u>23.0</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m.	<u>65.7</u>	Statute Miles	
GENERAL LOCATION	<u>St. Simon Sound</u> <u>Georgia - East Coast</u>		
LOCATION	<u>Little Satilla River</u> <u>Vicinity of Brunswick, Georgia</u>		
DATUM STATION	<u>Brookman</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> (adjusted)

INSPECTION REPORT

Compilation No. 5125

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 area around the city of Brunswick, Georgia which is not included on single lens compilations 5225 and 5226. The stream lines are sharp and well defined and are clearly shown on the compilation.

In general the fast land areas are heavily wooded except where recent logging operations or forest fires have thinned the growth. The forest consists of a mixed growth of pine, oak and deciduous varieties. The virgin pine has been mostly logged off and the second growth consists mostly of seedling pine and scrub oak.

The central portions of the larger tracts of timber have been left blank and labeled "Heavily Wooded" to indicate the feature. The actual growth has been indicated by symbol along the roads, streams, fields etc. to give a better intercutation of the distribution of woodland in relation to these definite features.

CONTROL:-

The radial plot of this compilation was controlled entirely by triangulation and traverse of third order triangulation accuracy as follows:

First order arc; C. D. Meaney, 1932

Second & Third order; C. M. Durgin, 1933, H. A. Paton, 1934

Traverse by compilation party; 1934

The traverse was run in closed loops between triangulation stations. Control points were picked along the highway on crossroad and ditch intersections but the traverse stations were not marked because this area was being later covered by the C. W. A. traverse which is marked.

COMPARISON WITH CONTRMPORARY SURVEYS:-

The area covered by this compilation is not shown on current issues of charts; hence no comparisons were possible. The hydrography in the Turtle and Little Satilla Rivers was run by H. A. Paton, 1934 and all shoreline checks the hydrography. The Geological Survey Quadrangles for this section are very old and inaccurate and no definite comparisons were possible.

LANDMARKS FOR CHARTS:-

Form 567 has been submitted by H. A. Paton, 1934.

NAMES-

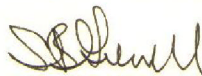
The few names appearing on this compilation were taken from the Geological Survey Quadrangles for this area. The names of the railroad lines were ascertained by enquiry in Brunswick, Georgia.

BRIDGE DATA:-

The length of clearance of the fixed span over the Little Satilla River is shown on the overlay sheet as follows: Length 36 feet, clearance ~~18 feet M. L. W.~~

10.5 feet M. H. W.

Respectfully submitted,



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

REPORT OF COMPILATION:-Compilation Method:

This sheet was compiled by the standard radial line plot method. The interlacing of radial points was used in several places where the radial points were not adequate. No other difficulty was experienced in carrying the plot through with the available control.

Adjustment of Photographs:

The pictures on this sheet have about the average amount of tilt and no difficulty was experienced in adjusting the pictures to the plot.

Interpretation:

The photographs were clear, causing no trouble with the interpretation of the detail. The flooded mud areas have been shown with a broken shore and marsh line. An abandoned tramroad has been shown with a double row of sand dots.

Information From Other Sources:

The photographs and field sketches were the only source of information used on this sheet.

Comparison with Other Surveys:

Junctions with other sheets compiled in the office are complete and satisfactory. There are no details appearing on the charts that should be removed. The shoreline has been checked against the controlled hydrography of H. A. Paton and found satisfactory.

Accuracy and Completeness:

The area covered on 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 with an error of not more than 10 meters.

*See
Review*

Photographs:

No.	to	No.	Date	Time	Stage of Tide
M-67	12	28	9-22-33	9:20AM	7/8
M-66	93	110	9-20-33	11:50AM	4/8
M-66	111	113	9-21-33	9:00AM	8/8 H.W.

J. B. Williams, Jr.
J. B. Williams, Jr.
Draftsman

S. B. Howell

REVIEW OF AIR PHOTO COMPILATION T 5125

1. Comparison with Graphic Control Surveys

(a) T 6174, T 6183 (1934), 1:10,000

The portions of the above graphic control surveys covered by this compilation are in agreement with the compilation.

(b) T 4897, T 6162b (1934), 1:10,000

Slight discrepancies in shoreline with the above graphic control surveys have been examined and rectified by replotting the compilation from the photographs except for a few differences of 3 to 10 meters, apparently due to sketching between rod readings or interpretation by the planetable.

(c) All information and detail shown on the above listed graphic control surveys within the area of the compilation is now shown on the compilation except the temporary topographic signals and magnetic meridians.

2. Comparison with Recent Hydrographic Surveys

(a) H 5591, H 5594, H 5686, H 5687, H 5688 (1934), 1:10,000.

Two small islands at lat. $31^{\circ} 12.5'$, long. $81^{\circ} 35.6'$ and lat. $31^{\circ} 12.8'$, long. $81^{\circ} 35.8'$ have been added to the compilation which are not shown on H 5594 covering this area. These have been referred to the reviewing section and have now been added to the hydrographic survey. Several small shoreline corrections have been made on the compilation but these do not affect the soundings. The hydrographic surveys listed above are now in agreement with the compilation.

3. Comparison with Former Surveys

(a) T 1145 (1870), 1:20,000

Only a small portion of this compilation is covered by former surveys and that part covered shows no important changes. The compilation is complete and adequate to supersede the portion of the survey which it covers.

4. Recoverable Stations

The recoverable topographic stations which are shown on graphic control survey T 6183 and are covered by the compilation have been added to the compilation.

Triangulation stations added to the compilation in the office are:

Sale 1934
Over 1934
Rowe 1934
Corn 1934
Lazarus 1934
Brock 1934

Love 1934
Gard 1934
Fang 1934
Marsh 1934
Wet 1934
Sky 1934

Plotted by L. C. Lande; checked by Joseph H. H. H. H.

Descriptions of the recoverable topographic stations are filed on Form 524 under the graphic control survey No. T 6183.

5. Remarks

(a) The accuracy of 4 to 10 meters given on page 3 of the preceding report is high for work on the scale. A better estimate would be 0.3 to 0.5 mm for intersected points and 0.3 to 1.0 mm for other detail.

(b) The projection diagonals have been checked in this office and found correct. No further check has been made during the review.

6. Comparison with chart 1242 and U. S. Geological Survey Bladen Quadrangle

No aids to navigation or landmarks are shown on that part of the present charts covered by the compilation and no new landmarks have been recommended by the graphic control surveys or this compilation.

Comparison with the U. S. Geological Survey Bladen Quadrangle shows the compilation to be complete for the main roads, but all the secondary roads and trails have not been shown as they are obscured on the photographs by trees. These areas agree in general with the Bladen Quadrangle.

L. C. Lande
✓ B. G. Jones

Date. 10/23/35 GEOGRAPHIC NAMES

Survey No. T-5125

Chart No. 1242-447

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>Buffalo Creek</u>	Same on Chart 1242			✓
	<u>Turtle River</u>	" "			✓
	<u>Hillery Creek</u>	" "			✓
	<u>Radcliff Creek</u>	Radcliffe Cr (U.S.G.B.) U.S.G.S. Bladen Quad			✓
	<u>South Brunswick River</u>	Same on Chart 1242			✓
	<u>Little Satilla River</u>	" "			✓
	<u>A.G.L. R.R.</u> ATLANTIC COAST LINE RAILROAD	U.S.G.S. Everett City Quad			
	<u>A.B.A. R.R.</u> ATLANTA BIRMINGHAM & COAST RAILROAD	" "			
	<u>Honey Creek</u>	Same on Chart 1242			✓
	<u>Maiden Creek</u>	" "			✓
	U.S. Highway #17				
	Add				
	<u>Hogans Island</u>	(Bladen Quad)			✓
	<u>Spring Bluff</u>	"			✓
	<u>Fancy Bluff</u>	Ch 1242		✓	✓
Not on 5125	Coppen Gully	"			✓
	DILLARD Oakgrove Creek	"		U.S.G.B. decision	
	<u>Visavis Island</u>	Bladen Quad			✓
	<u>Rough Island</u>	"			✓
	<u>Hopewell Creek</u>	"			✓
	<u>Colonels Island</u>				✓
		names approved 10/30/35			
		K.T.A.			

Survey No. T5125

Chart No. _____

Diagram No. _____

Ⓢ, Not Approved by the Division of Geographic Names, Department of Interior.

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Little Buffalo Creek</u>		Everett City Quad	✓ ✓	
	<u>Blythe Island</u> ✓		Bladen Quad	✓ ✓	
	<u>Sandhill Road</u> ✓		" "	✓ ✓	
	<u>Buck Swamp</u> ✓		" "	✓ ✓	
Names approved Dec 3 1935.					
O'Kegner					

REVIEW OF AIR PHOTO COMPILATION NO. 5125

Chief of Party: S. B. GRENNELL

Compiled by: J. B. Williams, Jr.

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

Instructions dated: 11-10-1933

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)
Charts do not cover 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) *No changes.*

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)
Traverse:- See descriptive report "Control"

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*

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)

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 Submitted by H.A. Paton, 1934

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)
by H.A. Paton, 1934

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)

13. ✓ The geographic datum of the compilation is *N. A. 1927* and the reference station is correctly noted. *(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 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 19, 1935

J. B. Shull
Chief of Party

19. Remarks after review in office:

Reviewed in office by: *L. C. Lande 9/21/35* ✓ *B. G. Jones*

Examined and approved:

E. H. Green
Chief, Section of Field Records
L. O. Lobat
Chief, Division of Charts

J. B. Borden
Chief, Section of Field Work
G. Wade
Chief, Division of Hydrography and Topography.

Applied to chart 447. Feb. 17, 1936. g.H.S.