

5129

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

~~*Hydrographic*~~

Sheet No. 5129

State Georgia and Florida

Vicinity of Cumberland Sound

LOCALITY

~~Fernandina~~

~~Georgia & Florida East Coast~~

St. Marys River

1935

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1934

5129

Applied to Chart 1242. Mar. 14, 1939 g.H.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. 5129

State Georgia & Florida
General locality Vicinity of ~~Fernandina~~ Cumberland Sound
Georgia & Florida East Coast

Locality St. Marys River ~~(Boundary)~~ *OK.*

Scale 1:20,000 Date of ~~survey~~ photographs: 10-13-33; 9-21-33 Comp: 19

Vessel Aerial photo Compilation Party No. 18

Reviewed and recommended for approval:

Chief of party Lieut. (j.g.), S. B. Grenell *S.B. Grenell*

Photographs plotted by:-

~~Surveyed by~~ F. B. Hickman

Inked by J. W. Osteen, 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 photos Nos.: M-66 133 to 143,
M-68 13 to 27.

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. 5129

PHOTO NO.	^{M-66} 131	to PHOTO NO.	145
BY	^{M-68} 12	START	27
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>10-30-34</u>	<u>10-30-34</u>
PROJECTION CHECKED	<u>W. R. Taylor, Jr.</u>	<u>11-6-34</u>	<u>11-6-34</u>
CONTROL PLOTTED	<u>W. R. Taylor, Jr.</u>	<u>11-6-34</u>	<u>11-7-34</u>
CONTROL CHECKED	<u>R. C. Schrimper</u>	<u>11-8-34</u>	<u>11-8-34</u>
TOPOGRAPHY TRANSFERRED	<u>J. W. Osteen, Jr.</u> <u>S. B. Grenell</u>	<u>Various</u>	<u>Times</u>
TOPOGRAPHY CHECKED	<u>S. B. Grenell</u>	"	" <u>11-28-34</u>
SMOOTH RADIAL LINE PLOT	<u>F. B. Hickman</u>	<u>11-10-34</u>	<u>11-28-34</u>
RADIAL LINE PLOT CHECKED	<u>S. B. Grenell</u>		<u>11-28-34</u>
DETAIL INKED	<u>J. W. Osteen, Jr.</u>	<u>12-11-34</u>	<u>2-11-35</u>
AREA DETAIL INKED	<u>118.5</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m.	<u>54.0</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m.	<u>64.4</u>	Statute Miles	
GENERAL LOCATION	<u>Vicinity of Fernandina Cumberland Sound</u> <u>Georgia & Florida East Coast</u> (Boundary)		
LOCATION	<u>St. Mary's River</u>		
DATUM STATION	<u>Roses 1932</u>	LATITUDE	³⁰ <u>38-42 - 43.112 (1327.6 m)</u>
DATUM	<u>N. A. 1927</u>	LONGITUDE	<u>81-35 - 09.320 (248.0 m)</u> (ADJUSTED)

INSPCTION REPORT
for
COMPILATION No. 5129
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 forwarded with compilation 5114.

GENERAL INFORMATION:-

This compilation covers the general area around the St. Marys River from the vicinity of the town of St. Marys inland to approximately three miles west of the S. A. L. R.R.

The most important features on this compilation are the railroad and main highway routes and the main stream of the St. Marys River. This river serves as a boundary between Georgia and Florida in this section and is of considerable importance because it is navigable for a great distance inland. It rises in the Okefenokee Swamp and drains the eastern portion of this swamp into the Atlantic.

TOPOGRAPHIC DETAIL:-

The St. Marys is bordered on both sides by the usual salt marsh which extends back to the S. A. L. R.R. Westward of the R. R. the river runs through heavily wooded country except for one section which was cleared for rice growing and in which the old drainage system of ditches and canals still exists.

The wooded sections have been pretty well logged over, especially where the growth was mostly pine, but the low or swampy areas are still heavily wooded. These areas are mostly gum with a scattering of cypress and various other deciduous growth not valuable as timber.

The logged areas have been shown with a scattered growth symbol and the swamps as heavily wooded. The pattern formed by the latter feature indicates the general drainage system of the area.

CONTROL:-

The radial plot was adequately controlled by triangulation and traverse from the following sources:

First order arc, C. D. Meaney, 1932
Coordinating scheme, C. W. Durgin, 1933
Traverse by compilation party, 1934

The traverse was a portion of a loop between stations KINGSLAND and ITALIA on the first order arc. The length was 20.1 stat. mi. and the closure 1.3 meters. This was an excellent traverse and held the plot perfectly. *Traverse was not marked and stations are not shown on the compilation.*

LANDMARKS FOR CHARTS:-

The above have been submitted for this area by H.A. Paton, 1934

NAMES ON OVERLAY SHEET:-

All names were taken from current issues of charts and Geological Survey Quadrangles of the area.

BRIDGE DATA:-

There are two swing bridges on the St. Marys River with data as follows shown on the overlay sheet:

^A
S.A.L. R.R.; Swing Span; Draw - 57.5' - 57.5'; clearance 11' MLW ~~H.W.~~ 5'

U.S. Hwy #17; " " " 88' - 88' " 10' MLW H.W. 5'

The H.W. clearance shown in red and given on the compilation has been taken from the W.S.E. list of Bridges 1927. The I.W. clearance listed above agrees with the Engineers list.

Respectfully submitted,

S.B. Grenell
S. B. Grenell
Chief of Party

The horizontal clearances for the R.R. bridge as listed above agree with the Engineers list but for the Highway bridge the Engineers list shows horizontal clearance right span 75' and gives no clearance for the left span. The engineers value of 75 feet has been shown on the compilation. It is not likely that this bridge has been changed as it was built in 1925 according to the Engineers bridge list, and it is not known whether the field compilation party measured these clearances or copied them from the Engineers list making a mistake for the Horiz clearances of the Highway Bridge.

B.G. Jones

REPORT OF COMPILATION:-

COMPILATION METHOD:-

The standard radial line plot method was used for this compilation.

The plot was run through without difficulty but the following stations did not always hold because of doubtful ties and dim pictures: REID, CRANDALL and KING. The plot checked through smoothly on the well tied control.

ADJUSTMENT OF PHOTOGRAPHS:-

Several photographs in the M-66 flight were badly tilted and could not be used.

There was an insufficient amount of radial points picked, especially in the vicinity of the town of St. Marys. In this instance additional points were picked and cut in; the interlacing method was used where points could not be picked easily.

INTERPRETATION:-

Several photographs in the M-66 flight were indefinite as to detail because of sunspots.

Numerous firebreaks appear on the photograph M-66, No. 22, "B" print but were not shown on this sheet as they are not permanent features and are changed from time to time.

Brush symbols were used to denote an abandoned tram road extending from St. Marys westward across the sheet.

At the junction of the St. Marys and Little St. Marys Rivers is shown an abandoned rice field with the usual symbol used.

COMPARISON WITH CONTEMPORARY SURVEYS:-

All junctions with adjoining sheets including single lens on the east, are complete and satisfactory.

Shoreline has been checked with hydro sheets executed under Chief of Party H. A. Paton.

COMPARISONS WITH OTHER SURVEYS:-

This compilation was checked with the Geological Survey Map - Kingsland and St. Marys Quadrangles - for all names of streams, railroads, towns, bluffs, etc.

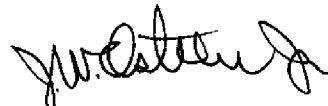
ACCURACY AND COMPLETENESS:-

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 with a probable error of of not more than 10 meters.

See Review

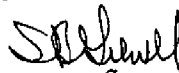
PHOTOGRAPHS:-

<u>No.</u>	<u>to</u>	<u>No.</u>	<u>Date</u>	<u>Time</u>	<u>Stage of Tide</u>
M-68	12	27	10-13-33	9:30 AM	1/4
M- 68	131	145	9-21-33	9:30 AM	6/7



J. W. Osteen, Jr.

Approved:


 S. B. Grenell,
 Chief of Party

REVIEW OF AIR PHOTO COMPIATION T 5192
1:20,000 5129

1. Comparison with Graphic Control Surveys

- (a) T 6189b, T 6190b and T 6191a (1934), 1:10,000

Slight discrepancies in shoreline in the above plane table surveys and the air photo compilation have been examined and rectified by re-plotting from the photographs except for a few differences of 3 to 10 meters which are apparently due to sketching between rod readings and planetable interpretation.

(b) 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 5753, H 5754, H 5755 and H 5756 (1934), 1:10,000

Several small shoreline corrections have been made on the compilation which is now in agreement with the hydrographic surveys.

3. Comparison with Former Surveys

- (a) T 614 (1857) 1:10,000 and T 1152 (1870) 1:20,000

The portions of the above surveys that cover the area show no important changes. The compilation is complete and adequate to supersede the portions of the above surveys which it covers.

4. Recoverable Stations

The recoverable topographic stations which are shown on the graphic control survey T 6190b and are covered by the compilation have been added to the compilation in this office. Triangulation station: Crandall House, North Gable (1933) was added to the compilation in this office.

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

Descriptions of the recoverable topographic stations are filed on Form 524 under graphic control survey number T 6190b.

5. Remarks

(a) The accuracy of 4 and 10 meters given on page 3 of the preceding report is high for work on this 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 were checked in this office and found correct. No further check was made during this review.

6. Comparison with chart 1242.

New landmarks recommended by graphic control survey T 6190b and shown on the compilation are

Triangulation station St. Marys, South Gable, Warehouse on Dock, 1933

Topographic signal Imp (d) (Cannery Stack)

" " Saw (d) (Sawmill Stack)

" " Pog (d) "Black Stack)

L. C. Lande

B. G. Jones

GEOGRAPHIC NAMES

Survey No. 75189Date. 10/22/35Chart No. 1242 124

Diagram No. _____

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

¢, 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>St. Marys River</u>	Same	✓ Add the following		
	<u>North River</u>	Same	✓ Crandall	✓	
	<u>Jolly River</u>	"	✓ Gross	✓	
	<u>Bell River</u>	"	✓ May Branch	✓	
	<u>Burrill Creek</u>	"	✓ Sweetwater Branch	✓	
	<u>St Marys</u>	"	✓ Cannon Swamp		
	<u>Marianna Creek</u>	"	✓ Laurel Island	✓	
	<u>King Bay</u>	"	✓		
	<u>Reids Bluff</u>	U. S. G. S. St. Marys Quad	✓	?	
	<u>Roses Bluff</u>	"	✓		
	<u>Lower Sister Creek</u>	"	✓		
	<u>Upper Sister Creek</u>	"	✓		
	<u>Scrubby Bluff Creek</u>	"	✓		
	<u>Little St. Marys River</u>	"	✓		
	<u>Kingsland</u>	U. S. G. S. Kingsland Quad	✓		
	<u>Catfish Creek</u>	"	✓		
	<u>Atlantic Waycross and Northern R. R.</u>	"	✓		
	<u>Scotchville</u>	"	✓		
	<u>Seaboard Airline R. R.</u>	"	✓		
	<u>Dark Entry Creek</u>	"	✓		
	<u>MARIANNA</u> 0.1. 3/18/36	"	✓		
	Camden County, Ga.	"	✓	Camden Co	31°
	<u>Nassau County, Fla.</u>	"	✓		
	names approved 10/30/35 KTA				

REVIEW OF AIR PHOTO COMPILATION NO. 5129

Chief of Party: S.B. Grenell

Compiled by: J.W. Osteen, Jr.

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)
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) *water front detail at St. Marys has been carefully checked. Charted detail too sketchy for close comparison.*
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) *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~~ ✓
~~reefs,~~ 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)
Form 567 submitted 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 naviga-
tion 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 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;

March 21, 1935



Chief of Party

19. Remarks after review in office:

Reviewed in office by:

L. C. Kande Oct 11, 1935 V B. G. Jones

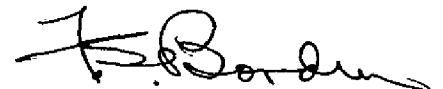
Examined and approved:



Chief, Section of Field Records



Chief, Division of Charts



Chief, Section of Field Work



Chief, Division of Hydrography and Topography.

Applied to chart 841 Mar. 24, 1936 Wallace A. Bruders

" " re-construction of chart 453, April, 16, 1937 John S. Long

Applied to chart 1242 Feb. 18, 1937 J. H. Streeter