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U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Georgia

## DESCRIPTIVE REPORT

Photo

Topographic

~~Topographic~~

Sheet No. 5221

## LOCALITY

~~Vicinity of Rockdedundy Island,~~~~east coast of Georgia.~~

ALTAMAHA SOUND

ROCKEDUNDY RIVER

1934

## CHIEF OF PARTY

Lieut. (j. g.) S. B. Grenell

Applied to new compilation drawing of chart # 574

Oct. 28, 1936 - J.F.W.

Applied to new compilation chart 575 June 1937 PBC

Applied to Chart 1242 Mar. 16, 1939 J.H. Strick

Applied to Chart 840 Nov. 26, 1935 W.A.B.

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. 5221

5221

State Georgia

General locality East coast of Georgia ALTAMAHA SOUND

Locality Vicinity of Rockdedundy RIVER Island

Scale 1:10,000 Date of photographs 11/21/33  
Date of ~~survey~~ Comp. May, 1934

Vessel .....

Reviewed and recommended for approval:

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

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

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 photographs Nos. (789)M10 to M14  
(789)M58 to M66

# NOTES ON 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 personnel 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. 5221  
 (789) M10  
 PHOTO NO. (789) M58 TO PHOTO NO. (789) M66

BY START FINISH

ROUGH RADIAL PLOT \_\_\_\_\_

SCALE FACTOR( ) \_\_\_\_\_

SCALE FACTOR CHECKED \_\_\_\_\_

PROJECTION A. A. Futral 3/15/34 3/15/34

PROJECTION CHECKED S. B. Grenell 3/15/34 3/15/34

CONTROL PLOTTED R. D. Crods 4/6/34 4/7/34

CONTROL CHECKED F. B. Hickman 4/7/34 4/7/34

TOPOGRAPHY TRANSFERRED \_\_\_\_\_

TOPOGRAPHY CHECKED \_\_\_\_\_

SMOOTH RADIAL LINE PLOT F. B. Hickman 4/9/34 4/11/34

RADIAL LINE PLOT CHECKED S. B. Grenell 4/11/34 4/11/34

DETAIL INKED J. W. Osteen Jr. 5/4/34 6/5/34

AREA DETAIL INKED 23.0 sq. Statute Miles

LENGTH OF SHORELINE OVER 300 m. 40.0 Statute Miles

LENGTH OF SHORELINE UNDER 300 m. 31.5 Statute Miles

GENERAL LOCATION East Coast of Georgia, ALTAMAHSA SOUND

LOCATION Vicinity of Rockdedundy Island RIVER

DATUM STATION Grass 1901 - 1933 Latitude 31° - 20' + 496.3 m unadjusted.  
N. A. 1927 datum Longitude 81° - 22' + 357.9 M

## FIELD INSPECTION REPORT

SHEET No. 5221

REFERENCE:

In reviewing this sheet reference should be made to the General Report for all single lens sheets which is attached to sheet 5206.

GENERAL INFORMATION:

With the exception of a few small wooded islets on the west side the entire sheet is salt marsh. This marsh is of the usual type described in the General Report and requires no further comment. In some sections the stream bank has a border of mud flat which bares at low water. This mud flat sometimes has a sparse growth of low grass, which differs materially from the true marsh growth, and which covers at high water. In such places the high water line has been run along the edge of the true marsh and a dashed line used to indicate the outer edge of the mud and grass flat.

CONTROL:

All the control used on this sheet was included in the revision triangulation of C. M. Durgin, 1932-33. The stations marked U.S.E. were not taken from the Engineer's coordinates but were computed by our triangulation party. There were no topographic stations available at the time this compilation was made.

LANDMARKS FOR CHARTS:

Data for the area covered by this sheet has been submitted by the party of J. A. Bond, 1934, on form 567.


COAST PILOT NOTES:

Coast pilot notes have been submitted by the party of J. A. Bond, 1934.

LIST OF NAMES:

All names appearing on this compilation were taken from current issues of charts.

Respectfully submitted,

  
S. B. Grenell,  
Chief of Party.

REPORT OF COMPILATION -

## COMPILATION METHOD -

This sheet was compiled by the standard radial plot method.

## ADJUSTMENT -

On this sheet the plot checked perfectly and there was no difficulty in shifting the detail to fit the plot with the exception of the extreme northeast corner where, due to several badly tilted pictures, a great deal of shifting was necessary.

## INTERPRETATION -

With the exception of a small area of trees in the northwest corner, this sheet consists entirely of marsh. Along Three Mile Cut and Little Mud River are shown numerous spoil banks which are graphically shown by the sand dune symbol.

INFORMATION FROM OTHER SOURCES -

Photographs furnished the only information.

## COMPARISON WITH OTHER SURVEYS -

All junctions with adjoining sheets are accurate.

## 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 located with a probable error of not more than 4 meters; less well defined detail with an error of not more than 10 meters.

PHOTOGRAPHS:	No.	to No.	Date	Time	Stage of tide
	(789)	M10 - M14	11/24/33	10:45	3/6
	(789)	M59 - M65	11/24/33	11:30	4/6

*J. W. Osteen Jr.*  
J. W. Osteen Jr.,  
Draftsman.

Approved:

*S. B. Grenell*  
S. B. Grenell,  
Chief of Party

## REVIEW OF AIR PHOTO COMPILATION NO. 5221

Chief of Party: S.B. GRENNELL

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) *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)  
*None available at time of compilation*
- ✓ 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. *No sheets available for comparison*
- ✓ 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) *No adjustments necessary.*
- ✓ 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 hydrographic party. J. A. Bond. 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 hydro. party, J. A. Bond, 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)  
*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)  
*No new names*
- ✓ 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. (none) ✓

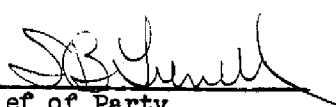
(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time. ✓

17. Remarks:

18. Examined and approved;

8-23-37

  
Chief of Party

19. Remarks after review in office:

*see following pages*

Reviewed in office by:

*D.H. Benson*  
*B.G. Jones*

Examined and approved:

*K.T. Adams*  
Asst Chief, Section of Field Records  
Division of Charts  
*L.O. Colburn*  
Chief, Division of Charts

*J.S. Borden*  
Chief, Section of Field Work  
*Harde*  
Chief, Division of Hydrography  
and Topography.

## REVIEW OF AIR PHOTO COMPILATION T-5221.

### Comparison with contemporary surveys.

The contemporary plane table surveys show locations of stations for control of the hydrography and air photo compilation, with short stretches of shoreline rodded in at various points. The compilation party did not use the plane table surveys for control, as ~~it~~<sup>they were</sup> was not available when the compilation was made. The same triangulation was used for both the plane table surveys and the compilation. No field comparison was made between the compilation and the plane table surveys. The following list of plane table surveys covering the area of the compilation except for a small corner at the northwest of the sheet, were compared with the compilation in the office; T-6161a, T-6196a, T-6162a, T-6196b, T-6163a, (1:10 000) (1934) Graphic Control surveys.

1- The plane table surveys are in agreement with the compilation except as noted below. All detail on the plane table surveys within the area of the compilation is shown on the compilation except for temporary plane table stations and the detail listed below.

(a) There are minor differences of from 1 to 19 meters between the shoreline sections rodded in on the plane table and the shoreline on the compilation probably due to differences in interpretation of the photographs and sketching between rod readings on the plane table survey. After careful inspection of the photographs under the stereoscope the shoreline as shown on the compilation was accepted as the better interpretation and was not changed.

(b) The plane table location of Rockedundy River Rear Range Beacon differed from the position as radial plotted from the photographs by 3 meters. After careful checking the compilation position is accepted as correct. The range line as drawn on the plane table passes slightly to the east of the rear range beacon as plotted on the plane table, and checks <sup>the</sup> beacon position as plotted on the compilation.

(c) Azimuths of ranges as listed below were determined on the plane table surveys T-6196b and T-6197 by drawing a line through the positions of the beacons and measuring the angles with a protractor. Examination of the plane table sheets shows ~~as~~<sup>no</sup> evidence that a point on range was located to strengthen these azimuths, except (1) below. The range lights are shown on the compilation. The value of the azimuths has been scaled from the lines shown on the plane table surveys by D.H.B. and checked by Sobieralski. A.N. Benson

(1) Rockedundy River Range 350°58' from south, shown on plane table sheet T-6196b, scales 351°15'. There is a point pricked on the extension of the range line, probably used to determine the range azimuth..

Little Mud River Range 301°31' from south, shown on T-6197. Scales 300°50' through the range beacons. No evidence of any point on range being used to measure azimuth.

(3) South Wolf Island Range 72°16' from north, shown on T-6197. Scales 72°26' through the range beacons. There is no evidence of any point on range being used to determine this azimuth.

(d) Magnetic meridians are shown on T-6196b, T-6197, and T-6193 which are not shown on the compilation.

2- The following recoverable and described stations were plotted on the compilation from the plane table sheets noted:

*GUN (d)	T-6161a	Plotted by D. H. Benson
*VEX (d)	T-6161a	Checked by T. R. Sobieralski
OWL (d)	T-6196b	
*FIX (d)	T-6196b	

In comparing with H-5632 and H-5631 it was discovered that all of the above points are incorrectly <sup>located</sup> on the hydrographic sheets. This has been called to the attention of the verifier on the Hydrographic sheet. \*These discrepancies are of sufficient importance to warrant any changes in hydrography of H-5631.

3- Numerous temporary topographic stations fall outside the high water line of the compilation. Most of these are located in shallow water, being stakes stuck in the mud close to the water line, according to Lieutenant Bond who worked in this area. All falling 20 meters or more outside the water line were examined under the stereoscope but none could be picked up, on the photographs.

4- The following triangulation stations were marked on the compilation by a pricked point; the symbol and names have been added in the office, the stations having been used by the hydrographic party and there being no evidence that the beacons have been moved.

Rockedundy River Beacon No. 1 1933.  
 Rockedundy River Front Range Beacon 1933.  
 Rockedundy River Beacon No. 3 1933.  
 Little Mud River Beacon No. 4 1933.  
 Little Mud River Beacon No. 5 1933.  
 Little Mud River Rear Range Beacon 1933.  
 Little Mud River Front Range Beacon 1933.  
 South Wolf Island Rear Range Beacon 1933.  
 South Wolf Island Front Range Beacon 1933.

Comparison with old surveys and with the charts:

(1875)

Comparison with T-1114 showed no unusual changes in topography, the principal difference being that the island at latitude 31°20.5', longitude 81°19.8' is now a single unit where it was formerly divided

as shown on T-1114. There was also some change in Beacon Creek. Mayhall Island was formerly spelled My Hall Island on T-1114, and was spelled May Hall on chart T-574. *The compilation is complete in detail and adequate to reference T-1114.*

Several jetties or piers are shown on charts T-574 and T-575 near the entrance of Mayhall Creek into Darien River, which cannot be found on the photographs and are not mentioned in the plane table reports; they have probably been destroyed and are not shown on the compilation.

Douglas H. Benson  
✓ B. G. Jones

Approved  
K.T. Adams.

Survey No. T-5221

## GEOGRAPHIC NAMES

Date. MARCH 1, 1935Chart No. 1242

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>NORTH RIVER</u>	"	✓		
	<u>CATFISH CREEK</u>	"	✓		
	<u>DARIEN RIVER</u>	"	✓		
	<u>MAYHALL ISLAND</u>	"			
	<u>MAYHALL CREEK</u>	INVESTIGATE THIS SPELLING (Two words preferred)		May Hall Cr * USGB 11/1/40	
	<u>LONG REACH</u>	"	✓		
	<u>ROCKEDUNDY RIVER</u>	"	✓		
	<u>BACK RIVER</u>	"	✓		
	<u>SOUTH RIVER</u>	"	✓		
	<u>LITTLE MUD RIVER</u>	"	✓		
	<u>WOLF ISLAND</u>	"	✓		
	<u>WOLF CREEK</u>	"	✓		
	<u>BEACON CREEK</u>	"	✓	USGB 11/1/40	
	<sup>ROCKEDUNDY</sup> <u>ROCKEDUNDY ISLAND</u>	"	✓		
	<u>GENERALS ISLAND</u>	"	✓		
	<u>THREEMILE CUT</u>	"	✓		
	<u>ALTAMAHA RIVER</u>	"	✓		
	<u>ALTAMAHA SOUND</u>	"	✓		
	<u>CROOKED CREEK</u>	"	✓		
	<u>HERD ISLAND</u>	"			
		APPROVED NAMES UNDERLINED IN RED H. L. Flemer.			

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CHECK LIST FOR AER. PHOTO SHEET NO. F-5221

- ✓ 1. Sheet indexed. ✓
2. Datum note correct and degrees and minutes correctly marked.
- ✓ 3. Names compared with charts and U.S. quadrangle sheets and list of new names and conflicting names prepared. <sup>575 ✓ 574 ✓ none</sup>
- ✓ 4. List of names prepared for stick up. ✓
5. Symbols and detail clear for printing. ✓
6. Station points marked by fine black dots. ✓
7. Junctions with other sheets correct. <sup>not checked until proofs accepted.</sup>
8. Compared with other surveys and with charts.
9. Projection correct. <sup>Center lines not quite perpendicular, otherwise pretty good</sup>
- ✓ 10. Stick up and lettering complete.

(a) Station names of proper size and type ✓

(b) Title block complete. ✓

(c) Type, clearance and sign of bridges shown <sup>5120</sup> ~~no bridge~~

(d) Datum note states whether adjusted, un-  
adjusted control. ✓

(e) Sufficient names to make sheet clear and  
easy to read. ✓

11. Sent to printer.

12. Proof checked.

13. Review completed

Title complete

Statistics complete

Join sheet

General desc. of country

Time and date of photos ✓

Errors in control and strength of plot discussed

Accuracy of location given ✓

New and conflicting names discussed *No new names*

Bridge data complete *no bridges*

Landmarks *no landmarks*

Descriptions on 524 ✓

Changes in important detail

Effect of tide variation taken into account

14. Whatman's copy ordered.

15. Filed and chart copies ordered.