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DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic | Sheet No. 5228 Hydrographic

Georgia

LOCALITY

COAST OF GEORGIA

St. Andrew Sound

193 5

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1934

applied to new chart 448 (thou dat 841) July 1937 J.S. T. applied to class 1242, man. 16, 1427 g.K. S.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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.

REGISTER NO. 5228
REGISTER NO. 5228
State Georgia
General locality Forgin Past Const Const Const
Locality St. Andrew Sound
photographs11-24-33;12-16-33;12-17-33;11-26-33
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
Inked by J. W. Griffith, Jr.
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated November 10, 1933 , 19
Remarks: Compilation of aerial photographs Nos.: 790-M1-2; M90-92;
м54-58; м105-108

--NOTES OF COMPILATION-

One copy of this form must accompany each chart from begining to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnell will endeaver 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. 52	28	
J. B. Hickman	58	FINISH
ROUGH RADIAL FLOT F. B. Hickman		
SCALE FACTOR () F. B. Hickman		
SCALE FACTUR CHECKED . B. Grenett		
PROJECTION A. A. Futral J. B. Hickman	<u>3-23-31.</u>	_3-23-31
PROJECTION CHECKED F. B. Hickman	5-10-31	5-10-3/
CONTROL PLOTTED F. B. Hickman	5 - 10-34	5-10-34
CONTROL CHECKED WarrenFitch	u + 5-11-3l ₁	<u>5-11-34</u>
TOFOGRAFHY TRANSFERRED W. Griffett	h, dr. Various I	imes
TOPOGRAPHY CHECKID S. B. Grenell	11	11
SMOOTH RADIAL LINE PLOTF. B. Hickman		_5-23-31,
RADIAL LINE PLOT CHECKED'S E. Grene		
DETAIL INGED J. W. Griffith	th €1. 5-29-34	7-3-34
AREA DETAIL INKED 1437	Square Statute	Milos
LENGTH OF SHORE LINE OVER 200m.	36.6 Statute	o Miles
LENGTH OF SHORE LINE UNDER 200m.	32.7 Statute	o Milos
GENERAL LOCATION COAST OF Georgia Ba	st Coast	,
LOCATION St. Andrew Sound		
DATUM STATION St. Andrew Sound L.H.	932 LATITUDE <u>30-59-38.</u>	.51,5 (1187.0M)
DATUM N. A. 1927	LONG TOUDE 81 -25-14	AUJUS TET

INSPECTION REPORT

SINGLE LENS COMPILATION No. 5228

Scale: 1:10,000.

REFERENCE:

In reviewing this compilation in the Washington office reference should be made to the General Report for Single Lens Compilations filed with compilation No. 5206.

GENERAL INFORMATION:

The major portion of this compilation was completed several months ago but it was necessary to hold the compiletion in this office until control for the flight along the outer coast of Cumberland Island could be established. This flight was later run in on a closed traverse and the north tip of the island which appears in the S. E. corner of the sheet was completed.

The detail on this compilation is principally salt marsh which is discussed in the General Report of above reference. Several unusual features such as mud banks and fading marsh areas are discussed in the compilers report.

CO NTROL:

The radial plot is controlled entirely by triangulation. Most of the stations were from the coordinating scheme of C. M. Durgin, 1933. Two stations, DOVER and ST. ANDREW SOUND L. H. were first order stations established by C. D. Meaney in 1932.

COMPARISONS WITH CONTEMPORARY SURVEYS:

All junctions with adjoining compilations have been checked. Comparison was made at various times with shoreline on smooth hydrographic sheets executed by H. A. Paton in 1934. The hydrographic survey is in excellent agreement with the compilation.

LANDMARKS AND COAST PILOT NOTES:

The above have been submitted for this area by Lieut. H. A. Paton from his hydrographic and topographic survey of 1934.

NAMES ON OVERLAY SHEET:

All names appearing on the overlay sheet were taken from current issues of charts and from Geological Survey and Army Tactical quadrangles.

Respectfully submitted,

S. B. Grenell

Chief of Party

REPORT OF COMPILATION:

RADIAL LINE PLOT:

This sheet was compiled by the standard radial line plot method. Due to the lack of control on Cumberland Island the compilation of this sheet was held up for a while. The station EMMA does not hold in all cases even after being repricked, but considering this and also the fact that there is not a great deal of control on this sheet this plot gave very little trouble.

ADJUSTMENT OF PHOTOGRAPHS:

These photographs contained a minimum of tilt and the radial points were well selected and frequent so the adjustments through this sheet were rather simple. In only several places did the radial points give trouble and this is thought to have been caused by the points being on the extreme limits of the photographs. In joining this sheet with the 1:20,000 scale sheet No. 5127 compiled in this office the radial point pricked on the end of the dock at Lat. 31° - 00.8'; Long 81° - 31.4' appear to be in error so this detail was drawn on the 1:20,000 sheet. Also the radial point that controlled the shorelline at Lat 30° - 59.7' appears to be in error. The system of interlacing points was used when there was a scarcity of points or a doubtful point. The subsect of the dock at Lat. 31° - 31.4' appears to be in error. The system of interlacing points was used when there was a scarcity of points or a doubtful point. The subsect of the dock at Lat. 31° - 59.7' appears to be in error. The system of interlacing points was used when there was a scarcity of points or a doubtful point. The subsect of the dock at Lat. 30° - 59.7' appears to be in error.

The photographs were clear causing very little trouble in the interpretation of the detail. The stereoscope was used to help pick up the detail in the area containing features with elevation. Standard topographic symbols were used to indicate the detail on this sheet. In the northwest corner of this sheet the dashed lines represent extensive mud flats surrounding the marsh island and along the bends of the streams. The shoreline along the western side of St. Andrew Sound is indefinite because a thin growth of low marsh grass extends out on the mud flats beyond the edge of the marsh proper. The high water line has been held back on the dense marsh grass line and the outer line has been indicated by a dashed line with broken marsh symbols between.

COMPARISON WITH CONTEMPORARY SURVEYS:

The junctions with adjoining 1:10,000 and 1:20,000 scale sheets compiled in this office are complete and satisfactory. The photographs and field notations were the only sources of information used on this sheet.

COMPARISONS WITH OTHER SURVEYS:

For the most part the detail on this sheet agrees with the charted detail. in several cases the courses of streams have changed slightly as at Lat. 31° - 00.1'; Long. 81° - 29.9'. There is no detail to be removed from the charts.

ACCURACY AND COMPLETENESS:

The area covered on this sheet is complete in every detail. As nearly as can be determined by the photographs, all well defined detail is located with a possible error of not more than 14 meters; less well defined detail with an error of not more than 10 meters.

PHOTOGRAPHS:

No. to No. Date Time Stage of Tide 790 - M90 790-M92 11-24-33 11:45 AM 4/6 790 - M275 790 - M276 12-16-33 12:45 AM 1/9 790 - M1 790-M2 11-24-33 12:00 4/6 790 - M-123 790-M126 12-17-33 10:45 AM 6/9 790 - M54 790-M57 11-26-33 11:15 AM 1/6									
790 - M275 790 -M276 12-16-33 12:45 AM 1/9 790 - M1 790-M2 11-24-33 12:00 4/6 764 790 - M-123 790-M126 12-17-33 10:45 AM 6/9 790 - M51 790-M57 11-26-33 11:15 AM 1/6			No.	to	N_{O}	Date	Time	Stage of	lide
790 - M105 790 M107 11-24-33 12:45 PM -1.0 ft. (L.W	•	•	790 790 790 790	- M275 - M1 - M-123 - M54	790 -M276 790-M2 790-M126 790-M57	12-16-33 11-24-33 12-17-33 11-26-33	12:45 AM 12:00 10:45 AM 11:15 AM	1/9 4/6 6/9 1/6	ft. (L.W.)

J. W. Sniffith, Jr. Draftsman

Approved:

S. B. Grenell

REVIEW OF AIR PHOTO COMPILATION 5228 (1934)

1. Comparison with Graphic Control Survey T-6184 (1934)(1-10,000).

All detail shown on T-6184 within the area of this compilation is shown on the compilation except for temporary topographic stations and the magnetic meridian.

2. Comparison with Graphic Control Survey T-6186 (1934)(1-10,000).

T-6186 shows the outer edge of the low grass line as a solid line. The report T-6186 states that this line is covered at highwater, but that it was impracticable for the rodman to wade inshore to the higher grass line which represents the mean highwater. The compilation shows the mean highwater line around the edge of the high marsh grass and shows the outter fringe of low grass by symbols only. The largest differences between the grass line on T-6186 and this compilation were around the island at the mouth of Umbrella Creek. This island is exposed and reported subject to frequent change. The compilation has position that has been corrected to agree with the plane table survey which was made subsequent to the date of the photographs.

The compilation has been corrected to agree with the plane table location of highwater line on the sand beach of southern end of Jekyll Island as the plane table survey was made subsequent to the date of the photograph. The plane table party surveyed this highwater line up to a junction with the compilation.

Tr6186 shows a different interpretation and slightly different location than does the compilation for the small island on the west side of dekyll Island. The compilation is accepted as correct after examination of the photographs in this office.

All detail shown on T-6186 within the area of the compilation is now shown on the compilation except for temporary topographic stations and magnetic declinations.

3. Comparison with Graphic Control Survey T-6185 (1934)(1-10,000).

The solid line on T-6185 represents the outter edge of the low grass as discussed in the preceding paragraph for T-6186.

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Several undescribed topographic stations on T-6185 fall outside on low water line. The photographs have been examined and do not show any objects at these locations. Examinations of the photographs in this area showed two houses and two roads south and west of AUmbrella 1933. These have been added to the compilation.

Photographs in this area were taken at mean low-water and the compilation is accepted as a support this plane water line is shown outside of the low-water line on T-6185.

All detail shown on T-6185 within the area of the compilation is now shown on the compilation except for temporary plane table stations and the magnetic declination.

4. Comparison with Graphic Control Survey T-6187a (1934)(1-10,000).

The compilation has been corrected to agree with T-6187a for location of a small section of highwater line at the intersection of Dover Creek and the Satilla River. This is a sand beach with no field inspection notes on the photographs. T-6187a and the compilation differ from 3 to 15 meters in the location of highwater line at the entrance to Todd Creek. The compilation is accepted after examination of the photograph.

All detail shown on T-6187a within the area of the compilation, is shown on the compilation except for temporary topographic stations and the magnetic meridian.

5. Comparison with Graphic Control Survey T-6187b (1934)(1-10,000).

The compilation has been corrected to agree with T-6187b for the location of highwater line along the sand beach at the northern end of Little Cumberland Island. T-6187b was surveyed five months subsequent to the date of the photographs and this area is subject to frequent change.

All detail on T-6187b within the area of this compilation is shown on the compilation except for temporary plane table stations and the magnetic declination.

6. Comparison with Contemporary Hydrographic Surveys.

a.H-5698 (1934-35)(1-10,000).

Part of the highwater line on H-5698 was taken from the graphic control surveys and does not agree with the compilation. This is largely due to the fact that the plane table survey is located at the outter fringe of low grass rather than mean high-water line as shown on the compilation. Along the inner bank of Dover Creek, northwest of Billyial ine of 8 foot soundings plot on the highwater line. Examination of the photographs indicates no error in the compilation at this point.

ъ.н-5686 (1934).

Examination of H-5686 shows a few minor discrepencies between the soundings and the highwater line in Umbrella Creek. Examination of photographs shows no error in highwater line in this section.

7. Comparison with Previous Surveys.

a. T-4106 (1924)(1-20,000).

Comparison with T-4106 shows no large changes in this area. The compilation is complete and adequate to supersede T-4106.

b. T-1145 (1869) (1-20,000).

Comparison with T-1145 shows no large changes except at the ends of Jekyll and Little Cumberland Islands and the addition of Umbrella Cut and Dover Cut. The compilation is complete and adequate to supersede T-1145.

8. Comparison with the Charts.

All land marks including lights and beacons shown on the present chart No. 1242 within the area of this compilation are located on the compilation. There have been no extensive changes in the shore line except as mentioned in the preceding paragraph.

9. Recoverable Topographic Stations.

All recoverable topographic stations shown on the graphic control surveys in the area of this compilation have been transferred to the compilation by D.H. Benson and checked by J.R. Sobiatski

Descriptions on form 524 for these stations are filed as follows:

Rye	T-6184	Mor	T-6186
Ape	TT .	Oge	11
Jek	11	Mug	11
		Fly	11
		Tal	11
		Tin	11
		Mad	11
		ENE	()
La	T-6185	ETO.	T-6187(a)
Gum	11	Hop	11
Wren	11	Mullet	tuse"
Ver	11	No.3 U	
Bil	11	Top	"
Orb	n	Willet	USE "
		End	11

10. Remarks.

The entire area of Jekyll Island has been replotted in this office. Refer to descriptive report T-5224 for discussion of this plot.

Bensen 13.9. Jones

liena	1 1935	GEOGRAPHIC	NAMES
11/40	11 101 14		

Survey No.	T-5228	
Chart No.	1242	
Diagram No.		<u>.</u>

Approved by the Division of Geographic Names, Department of Interior. \bigstar 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
	Little Satella River	Same		/	
	UMBRELLA CUT	4		-	
·	JEKYLL SOUND	IJ			
	JEKYLL ISLAND	<i>11</i>		-	
	JEKYLL POINT			-	-
	ST ANDREW SOUND	h .			
	UMBRELLA CREEK V			-	
	Micopox XXX 5xx	"	delate		
	DOVER CREEK				
	DOVER CUT		move non	e.	
	SATILLA RIVER				
	TODD CREEK			<u> </u>	
	THE BULKHEAD				
<u></u>	HORSE SHOE SHOPE	/			
	LITTLE COMBERLAND ISLA	10			
	CUMBERLAND RIVER-		,		
	A XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		out		
			V		
; •					. 19
· .		names approved 10/31/	5		·
		KTA			`

REVIEW OF AIR PHOTO COMPILATION NO. 5228

Chief of Party: S.B. Grenell

Compiled by: J. W. Griffith 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 1; 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)
 - 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 by completion porty on Comberland Island.
 - 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 wdescriptive 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 by MR. Poton, 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 561 by M.A.Poton, 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 NA. 1927 and the reference station is correctly noted.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 86j)
- 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)

- No additional surveying is recommended at this time. 16.
- 17. Remarks:

18. Examined and approved;

Chief of Party

Remarks after review in office: 19.

Reviewed in office by: D. H. Benon 6/4/35 139. Jones

Examained and approved:

of Field Work

Division of Hydrography

and Topography.