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## R. S. PATTON, DIRECTOR DESCRIPTIVE REPORT

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

Topographic Sheet No. 5117 Had naturaliza

Georgia

Sapelo Sound

South Newbort River

St. Catherine Sound

1935

CHIEF OF PARTY

S. B. Grenell

U.S. GOVERNMENT PRÍNTING OFFICE: 1994

## 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.

Field No
REGISTER NO. 5117
State Georgia Sapelo Sound
General locality Georgia Test Const South Newbort River
Locality St. Catherine Sound
photos: 9-20-33 Scale 1:20,000 Date of ***** 19
Vessel Air 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 A. M. Gruber
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Compilation of aerial photos Nos.: M-66 51 to 65;
and 42 to 44

#### -- 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. 5117

### PHOTO NO. M-66 33 to PHOTO NO. 66

111010 1101		
BY D.B. Gaines_	START	FINISH
ROUGH RADIAL PLOT D. B. Gaines	12-1-33	12-6-33
SCALE FACTOR (.915) J. C. Harmon	12-5-33	12-6-33
SCALE FACTOR CHECKED E. M. Noon	11-30-33	11-30-33
PROJECTION J. C. Partington	12-6-33	
PROJECTION CHECKED J. C. Harmon	12-7-33	12-7-33
CONTROL PLOTTED F. B. Hickman	12-8-33	12-9-33
CONTROL CHECKED A. A. Futral	12-9-33	12-11-33
TOPOGRAPHY TRANSFERRED_	A STATE OF THE PARTY OF THE PAR	
TOPOGRAPHY CHECKID	a	
SMOOTH RADIAL LINE PLOT F. B. Hickman	12-11-33	12-18-33
RADIAL LINE PLOT CHECKED S. B. Grei	nell	
DETAIL INTED A. M. Gruber	12-18-33	2-3-34
AREA DETAIL INKED 88.6	Square Statute	Milos
LENGTH OF SHORE LINE OVER 200m.	136.9 Statut	c Milos
LENGTH OF SHORE LINE UNDER 200m.	153.2 Statut	o Milos
LENGTH OF SHORE LINE UNDER 200m.  Sapelo So  GENERAL LOCATION Georgia East Coa	u no	
LOCATION St. Catherine S.	ound	
DATUM STATION Clapp, 1932		.227 (838.6M)
Datum N. A. 1927	LONGITUDE 81-15-	(adjusted)

#### INSPECTION REPORT for COMPILATION No. 5117 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 No. 5114.

#### SHEET LAYOUT:

When the writer took over the compilation party in December, 1933, from M. H. Reese, the radial plots had been run and tracing begun on five compilations, Nos. 5113-15-17-20-23. About the time these first compilations were nearing completion a shipment of single lene photos of the Inside Route was received with instructions to give this section preference in compiling. Consequently work on these 5-lens sheets was dropped until the single lens compilations were completed.

The signle lens compilations cover a narrow strip parallelling the coast and passing through the five compilations mentioned above. This constituted a duplication of a portion of the area on each 5-lens compilation which has been blocked out in red on the attached overlay.

A careful comparison was made of the area duplicated and it was found that the 5-lens sheets were far less complete in detail, due principally to the fact that the 5-lens photographs were not very clear. Also these compilations were the first attempted on this party and the draftsmen unskilled in tracing minute detail. Also the ink was of inferior quality and the celluloid had a high shrinkage factor, all of which tended to lower the grade of the work.

Compilations 5113 and 5123 were so far below the standard of work that we are now turning out that it was decided to scrap the old compilations. Each of these two sheets was re-compiled showing only the area not covered by single lens.

Compilations 5115-17-20 have been worked over and checked agaist the photostat reductions of the single lens compilations and are being forwarded as originally compiled. It is realised that the compilations are are not up to present standards as to fineness of drafting but it is believed that they are accurate as to detail shown.

The ink is badly faded in spots and the projections are distorted considerably. The former is due to the original ink used which was poor in quality, and the latter to the poor grade of celluloid received in the first shipment. If these three compilations (5115-17-20) are too badly faded to reproduce they can be re-compiled by returning the original compilations with photographs and prints of adjoining compilations to this office.

#### ONTROL:

The radial plot of this triangulation was controlled entirely by triangulation from the following sources: First order are by H. C. Warwick - C. D. Meaney, 1932 and coordinating scheme of C. M. Durgin, 1932. In 1934 Lieut. C. A. Egner established additional control in the Timmons, Newport and Julienton Rivers but this triangulation was established after the sheet was compiled and was not used to hold the plot. Later the control was plotted on the compilation as a check and everything was found to be in agreement.

#### COMPARISON WITH CONTEMPORARY SURVEYS:

The compilation of shoreline has been carefully checked against the smooth hydrographic sheets of C. A. Egner and against such rodded as was transferred to these smooth sheets from the aluminum control sheets of the area. Part of this section was done by H. P. Odessey on the "GILBERT" and the sheets were not available to this office.

#### LANDMARKS AND COAST PILOT NOTES:

The above have been submitted by C. A. Egner & H. P. Odessey, 1934.

#### NAMES ON OVERLAY SHEET:

All names appearing on the ovarlay sheet were taken from current issues of charts and U. S. Army Tactical Maps. Part of the names were printed on celluloid and glued to the compilation but these have mostly come off in handling.

Respectfully submitted,

B. Grenell

#### REPORT OF COMPILATION:

#### COMPILATION METHOD:

This sheet was compiled by the radial line plot method. No difficulty was experienced in the adjustment of the plot with the control available on this sheet.

#### ADJUSTMENT OF PHOTOGRAPHS:

No particular difficulty was experienced in adjustment of photos when tracing detail because radial points were well spaced and tilt was not excessive.

#### INTERPRETATION:

With the exception of the H. W. delineation around station CEDAR HAMMOCK 2 and the mouth of Barbour Island River, no difficulty was experienced in interpreting photos. The H. W. line is parctically impossible to locate exactly whether by photo or field inspection because of wave action and ranges of tide in Sapelo Sound. Standard topographical symbols were used throughout this compilation.

#### INFORMATION FROM OTHER SOURCES:

The photographs and field inspection sketches were the only sources of information used on this compilation.

#### COMPARISON WITH OTHER SURVEYS:

Junctions with adjoining sheets compiled in this office are complete and satisfactory. The junctions made with the single lens compilations were accompolished with the aid of photostat copies of the 1:10,000 here sheets which were reduced to 1:20,000 scale. There are no details appearing on charts that should be removed. This compilation has been checked with current charts of the U. S. C. & G. Survey.

#### ACCURACY AND COMPLETENESS:

As nearly as can be determined from the photographs and with the exception noted in paragraph headed INTERPRETATION this sheet is complete in detail. All well defined detail is located within 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
м <b>-</b> 66 м-66	51 42- 3 2	65 144	9 <b>-</b> 20 <b>-</b> 33 9 <b>-</b> 20 <b>-</b> 33	10:45 AM 10:15 AM	5/8 7/8

A. M. Gruber, Surveyor

Approved:

S. B. Grenell

#### Review of Air Photo Compilation T-5117

(1:20,000)

#### 1. Comparison with Graphic Control Surveys

- (a) T-6151a, T-6157b, T-6158b, and T-6160a, 1934 (1:10,000). Slight discrepancies in shore line in the above plane table surveys and the air photo compilation have been corrected and they are now in agreement.
- (b) T-6158a, T-6194a, and T-6194b, 1934 (1:10,000). There are large differences between sections of shore line on the above G.C.S. and this compilation amounting to from 3 to 30 meters. Each difference has been examined carefully by comparison with the photos and also a check of the photo plot. A few minor changes have been made on the compilation which is accepted as correct. The remaining differences are due to inaccurate sketching between rod readings and to differences in interpretation.
- (c) All information and detail shown in the above listed graphic control surveys within the area of this compilation is now shown on the compilation except the temporary topographic signals and magnetic meridians.

#### 2. Comparison with Recent Hydrographic Surveys

(a) H-5552, H-5580, H-5582, H-5583, H-5585, H-5586, 1934 (1:10,000). A small island at Latitude 31° 32.9¹, Longitude 81° 19.1¹ has been added to the compilation which is not shown on H-5580 covering this area. This has been referred to the reviewing section and has now been added to the hydrographic survey. Several small shoreline corrections have been made on the compilation but these do not effect the soundings. The hydrographic surveys listed above are now in agreement with the compilation.

#### 3. Comparison with Former Surveys

(a) T-721, 1858 (1:20,000); T-1060, 1867 (1:20,000); T-1155, 1869, (1:20,000); T-4121, 1925 (1:20,000) and T-4123, 1925 (1:20,000). The portions of the above surveys that cover this area show no important changes. The compilation is complete and adequate to supersede the portions of the above mentioned surveys which it covers.

#### 4. Recoverable Stations

The recoverable  $\odot$  stations which are shown on the graphic control surveys T-6151a and T-6158a and are covered by the compilation have been added to the compilation in this office. Recoverable stations on the remaining graphic control were transferred to the compilation by the field party. In addition the  $\triangle$  stations listed below have been added to the compilation in this office:

Sun 1934 Mcdway River Shac Bend 1934	k Chimney 1934	Content Dum Four	1934 1934
Landing 1934 Neck 1934		Southerl	1934 and 1932
Harris 1934			

Stations transferred by L. L. Land

Checked by Molerook

Descriptions of the recoverable  $\odot$  stations are filed on form 524 under the Graphic Control Survey numbers T-6151a, T-6157b, T-6158a, T-6158b, T-6160a, T-6194a and T-6194b.

#### 5. Remarks

- (a) The accuracy of 4 to 10 meters given on page 3 of the preceding report is high for work on this scale. A better estimate would be 60 to 10 meters for intersected points and 6 to 20 meters for other detail.
- (b) The junctions between this compilation and the adjoining compilations had not been carefully made and have been revised in this office.
- (c) The projection diagonals have been checked in this office and found correct. No further check was made during this review.

## 6. Comparison with Charts 1241 and 573

No aids to navigation or landmarks are shown on that part; of the present charts covered by this compilation and no new landmarks have been recommended by the Graphic Control Surveysor this compilation.

Note Refferring to pars, pg. gonos

Page I, desc. report T5117,

the blank area thru the center of

this compilation has been filled in

This compilation has been filled in

by reducing and applying the 3

1:10 000 scale compilations Nos T5217, T5218, and

1:10 000 scale compilations Nos T5217, T5218, and

T5219. This will necessitate redrawing This

compilation as a blueline print before

publication. This has been done because of

The incompleteness of the compilation as

submitted from the field will be published overlapping This area are filed and will be published.

## Date Oct. 23, 1935 GEOGRAPHIC NAMES

Survey No.	T-5/17
Chart No	1241+573+574

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			Names al use	Names assigned by Field	Location
1	Sapelo River	Sa	me on	12418,5	74_				6.
	Sapelo Sound Dog Hammock	57	<u>"</u> ET- \$	1. See 5:	<u></u> tan	1	.ch	574 delete	more
<i>y</i>	Cedar Hammock		r,			,		~ ·	
	Fourmile Point		t. t.		, ,	,	1		
	Julienton River	ľ	1, 1		٠,	,		\	Rigat
~/	Fourmile Island		19 Four	Mile Isl	ana	07	1241		
.1	Brunsen Creek		Same						
	<u>Barbour Island Ri</u> Little Mud River		Same ''		118 ''	574	and T	5219 v	<u> </u>
	Harris Neck		1,	······································	· ·	• • • • • • • • • • • • • • • • • • • •		,,	/
	Oldnor Island		1,			t i	and	T5218	
· ,	South Newport Rive	<u></u>	ι,	t,	£.	l,		ι, υ	
	Johnson Creek			61	١,	1,	• • •	. ,	
١.,	St Catherines Islan	<u>d</u>		t ,	, t <sub>1</sub>	Į i		1,	
	Wahoo River		1+		41	11			
	<u>Wahoo Island</u> Mollclark River			11	1.	573		11 reforme!	t. 1) 6. %
	Swain River		11	11	ι,	573			<u> </u>
LZ LZ	North Newport R	ver	1,	La 1			and.	5217	Report
	Timmons River		ti	<i>(, )</i>		11	:	11	raive
5 . 1 1	Vandyke Creek			1, "	1	11		11	(M-136)
	<u></u>		,		Ī			}	

GF	OGR	APH	IC.	NA	MES
$\mathbf{u}$	vun				

Survey No.	7-5/17
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

U	Ind	er	inves	tiga	tion.	Q
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Date.\_\_\_

Status	Name on Survey	, Name on	ı Chart	1	Names cal use	Names assigned by Field	Location
5211/4	Walburg Creek	Same	071241 4	573	and	5217	
	Cedar Creek	Lt	ι.	1,	ι,	11	
الم الم	Medway River	t,	1.	11	۲,	<i>‡</i> 1	
	St. Catherines Sour	id ''	t <sub>1</sub>	17	Ь	١,	
T1.110	Walburg Island	1.	L.	1,	٠,	1 (	
	McQueen Inlet	1 3	t,	"			
	Sunbury Creek	1.	1,	11			
	Ashley Oreek	4.5.1	E. St. Cot	hert	nes I	sland (Qua	
	Broro River	<b>.</b>		i i		, ,	
	Moss Island		i. i. 4			``	
•	DEAD CREEK	U.S.E.	St Cathe	rine	s Is/	and Qua	1+T1155
	Cedar Point	7.6				,	
	Barbour Island	Same or	1241+5	14 +	5219		
<del></del>	Add						
	High Print	Chart 57	4			1	
	Sutherland Bluff	Sapelo R	Quad			,	
	Todd River	G.N. Stand	ard 574				
	Colonels Island	Sapelo R	Quad				
	Sapelo Island						
		names appr	wed 10/31/	35			(M-(36)
-			K.T.A.				(M*(3b)

## REVIEW OF AIR PHOTO COMPILATION NO. 5117

chief of Party: S.B. Grenell

compiled by: A.M. Gruber

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) to 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)
- 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 ade- quate 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 recks, 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.P. Odessey & C.A. Egner, 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 by H.R.O. and C.R.E. 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 //.A. /927 and the reference station is correctly noted. (adjusted)
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- The drafting is satisfactory and particular attention has been given the following:
  - 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.
- Topographic symbols for similar features are of uniform weight.
- 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:

Examined and approved; 18.

Party

Remarks after review in office: 19.

Reviewed in office by: L. C. Lande B.J. Jones

Examained and approved:

Chief, Division of Charts

Section of Field Work

Division of Hydrography

and Topography.

tude