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DESCRIPTIVE REPORT

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton Director

Photo Topographic \ XXXXXXXXXX

Sheet No. 5218

LOCALITY

Carbai Georgia,

M. Sapelo Sound

Mouth of South Newport River

193 4

CHIEF OF PARTY

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

applied to new compilation drawing of Chart 574-Oct, 9, 1936- J.T.W.

applied to chart 573 no. 18, 1936 g. N. 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.

Field No/
REGISTER NO. 5218
StateState
General locality Communication Visit of Sapelo Sound
General locality Sapolo Sound Locality Sapolo South Newport River
Scale 1:10,000 Date of concorest Comp. April , 19 34
Vessel Reviewed and recommended for approval: Chief of party Lieut.(j. g.) S. B. Grenell
Photographs plotted by: R. D. Cross
Inked by A. M. Gruber
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. (789)M26 to M28 M153 to ML10

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.		
	(789)M26 to 1		M11:0
	BY	START	FINISH
ROUGH RADIAL PLO)T		
SCALE FACTOR()	 	
SCALE FACTOR CHE		<u> </u>	
PROJECTION	A. A. Futral	3/9/34	3/10/34
PROJECTION CHECK	(ED S.B. GYOLOIL	3/10/34	3/10/34
CONTROL PLOTTED		3/1 6/34	3/16/34
CONTROL CHECKED	A. A. Futral	3/16/34	3/16/34
TOPOGRAPHY TRANS			
SMOOTH RADIAL LI	NE PLOT R. D. Cros.	s / 3/22/3h	3/26/34
RADIAL LINE PLOT	CHECKED S. B. Great	1911 3/26/34	3/26/34
DETAIL INKED	A. M. Gruber	3/26/34	4/30/34
AREA DETAIL INKE	D 13.8	sq. Statute	liles
LENGTH OF SHOREL	INE OVER 200 m. 2	25•5 St	tatute Miles
LENGTH OF SHORET	INE UNDER 300 m. 1	11.2 St	tatute Miles
GENERAL LOCATION	Complete US Georg	gia	
LOCATION A	Sapela Sound	Mouth of 5.	Newport Piver
DATUM STATION_	Newport 1933	Latitude31	35+94-4
.	N.A. 1927 datum	· Longitude 8	1-10+1149.5

OMMPILATION METHOD:

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

ADJUSTMENT OF PHOTOGRAPHS:

Adjustment of photographs was easily accompositional due to radial points being well placed and the amount of tilt very small.

INTERPRETATION:

With the exception noted below, the pictures used on this sheet were clear and no difficulty was experienced in tracing detail. Interpretation of the exact position of high water line along the wind- and tideswept shoreline bordering the mouth of South Newport River and Sapelo Sound is doubtful. The shoreline as indicated on this sheet is the result of careful study under the stereoscope, also questioning of field party men and men of the hydrographic party. Shell rakes and sand deposits along the shoreline have been shown with sand dots. Bars of mud and shell outside of water line have been shown with a dash outline and plain broken marsh lines.

The tree formation on St. Catherines Island is of particular interest in showing changes in beach line, and attempt has been made to follow closely the photographic representation. With exceptions as noted above, the standard topographical symbols were used for detail.

INFORMATION FROM OTHER SOURCES:

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

O MPARISION WITH OTHER SURVEYS:

Junctions with adjoining sheets compiled in this office are complete and satisfactory. There are no details appearing on charts that should be removed.

ACCURACY AND COMPLETENESS:

As nearly as can be determined from the photographs, and with exceptions as noted in paragraph 3, this sheet is complete in every detail.

Allowell 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.

PHOTOGRAPHS:

No to No. Date Time Stage of tide (789) M26 M28 11/24/33 11:05 3/6 M140 12/17/33 11:00 5/9

A. M. Gruber, Draftsman

Approved:

S B. Grenell

INSPECTION REPORT

Sheet No. 5218

REFERENCE:

In reviewing this sheet in the Washington office, reference should be made to the General Report for single lens sheets filed with Sheet No.5206.

GENERAL INFORMATION:

The bulk of the area covered by this sheet is the usual type of salt marsh found along this section of the coast. The stream lines are well defined through the marshy sections and the sand bars and sheel rakes in the vicinity of Sapelo Sound are discussed in the Compilers Report.

The mainland of St. Catherines Island is heavily wooded and presents no unusual topographic features as viewed from the water. However, the aerial photographs bring out sharply the variations in vegetation distribution which in turn indicate clearly the old beach line formations. This feature, if carefully studied from the photographs, may give some information concerning the trend of erosion along the coast.

CONTROL:

With the exception of station Rack-1916, all of the triangulation control on this sheet is included in the revision survey of C. M. Durgin, 1932-33. There were no topographic stations used for control on this sheet.

LANDMARKS FOR CHARTS:

Form 567 for this area has been submitted by the Commanding Officer, Gilbert, 1934.

CMAST PILOT NOTES:

Notes for this area have been submitted by the Commanding Officer, Gilbert, 1934.

NAMES:

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

Respectfully submitted,

S. B. Grenell.

REVIEW OF AIR PHOTO COMPILATION T-5218 (1934) June 1935

Comparison with Contemporary Graphic Control Surveys

a. T-6158b (1:10,000), March 1934

At lat. 31° 35.4', long. 81° 11.8', the compilation shore line falls 0 to 14 meters inside the shore line on T-6158b. This is probably due to different interpretations of the high water line. The compilation has been compared with the photographs and appears to show a better interpretation than T-6158b. The compilation has been accepted as correct.

At lat. 31° 37.4', long. 81° 12.2' and lat. 31° 37.9', long. 81° 11.2', the compilation shore line differed from the shore line on T-6158b by 10 to 15 meters. This appeared to be a difference in location as the compilation shore line on both sides of Mollclark River and Johnson Creek feel east of the shore line on T-6158b. The original radial points were used to run a new photo plot with a projection made on the projection machine. The new plot was found to agree more closely with T-6158b. Detail from lat. 31° 36' to the top of the compilation has been replotted in the office. The compilation now agrees closely with T-6158b except for a short section of shore line at lat. 31° 38.3', leng. 81° 11.4'. This difference (0 to 20 meters) appears to be caused by sketching on T-6158b. The compilation is accepted as revised.

Temporary topographic stations appearing on T-6158b are not shown on the compilation.

b. $\underline{\text{T-6159a}}$ (1:10,000), March 1934, and $\underline{\text{T-6175}}$ (1:10,000), Feb.1934

Only a small part of each of these graphic control surveys is covered by the compilation. There is no shore line on these surveys in the compilation area. Topographic stations on T-6195a and T-6175 fall well inside the compilation high water line.

Temporary topographic stations shown on T-6159a and T-6175 are not shown on the compilation.

Comparison with Previous Topographic Surveys

 $\underline{T-721}$ (1:20,000), 1857-8, $\underline{T-3411}$ (1:20,000), 1913, and $\underline{T-4121}$ (1:20,000), 1924-25.

In general, extensive changes in this area are confined to the marshy areas. The southern end of St. Catherines Island has cut back about 100 meters in the past ten years. The compilation is complete and adequate to supersede the areas covered on T-721, T-3411 and T-4121.

3. Comparison with Contemporary Hydrographic Surveys

H-5582 (1:10,000), 1934 and H-5583 (1:10,000), 1934.

The shore line on these hydrographic surveys was transferred from the compilation in the field. There are no conflicts between the hydrography and the compilation shore line.

The revision made in the upper part of the compilation has been brought to the attention of the hydrographic reviewer. The soundings nearest the shoreline in this area were far enough out so that the error did not cause a conflict.

4. Comparison with charts

The compilation area is covered on charts 574 and 1241. There are only minor changes in shore line detail. Changes in landmarks are discussed in paragraph 8.

5. Projection

The projection has been checked in the office. It is correct within two meters.

6. Recoverable Stations

All recoverable stations shown on the compilation have been plotted in the office by V. R. Sobietalski and checked by D. H. Benson

Descriptions on Form 524 are filed under T-6158b, T-6159a and T-6175.

7. Additions and corrections.

The following triangulation stations have been transferred to the compilation in the office by V. Sobiotick and checked by D. H. Benson

English Cut, 1858
Half Tide Rock, 1912
Tall Pine Tree, 1912
Johnson Creek Bn. No. 3, 1932
" " " 5, 1932
" " 7, 1932
" " , Old Sawmill Boiler, 1932
Johnson, 1933.

The revised portion of the compilation has been drawn on a blue line print on aluminum mounted bristol board.

8. Landmarks, Lights and Beacons

All landmarks shown on the charts are included on the compilation with the exception of the dune at lat. 31° 34.6', long. 81° 09.4'. Inspection of the photographs under the stereoscope shows no distinct

dune in this location, although there is a small elevation covered with trees. This high ground is not distinct enough to locate definitely. It does not appear high enough to show above the trees further inland. The dune has not been shown on the compilation. There are no landmarks on the compilation which are not on the charts.

Respectfully submitted.

V. Kalph Sobievulski

10-22-35

JSJ Jones

GEO	GRA	PHIC	NΑ	MES
-			117	

Survey No. T. 5218	
Chart No. 1241-574	

Diagram No.

Date	1-16-35	
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- *, Approved by the Division of Geographic Names, Department of Interior.
- \rlap/c , Not Approved by the Division of Geographic Names, Department of Interior.

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
	Sapelo Sound	Same on 1241 & 574			
	South Newport River	11 11	· ·		
	Mollclark River	16 TH . W			
	Wahoo River	pe to			
	Johnson Creek	• •	<u> </u>		
	Brunsen Creek	h 11 6 6			
<u></u>	St. Catherines Island	ge 40 to 10 .			
	Barbour Island	a 15 - 4		<u> </u>	
	Oldnor Island	p	-		
	Moss Island	р и и			
	add		<u> </u>		
	Todd River	574-			
				-	
				-	
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		·			
	·				
		names approved 1/9/35	·		(M 10
	·	KT.A.			ļ

REVIEW OF AIR PHOTO COMPILATION NO. 5218

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 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
 - 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. Thorefine comparisons with hydrographic and topographic sheets completed to dote have been made and adjustments mode.
- 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 unusual adjustments.
- 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 Commado Officer Gilbert 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)

 Erm 567 submitted by C.O. Gilbert 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 M.H. 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.

(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;

9/13/34

Chief of Party

19. Remarks after review in office: See neview pages.

Reviewed in office by: V. R. Sobievalski

B.g. Jones

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

DESCRIPTIVE REPORT, T-5218A T5218a

T-5218A is identical with the original T-5218 except for corrections to the roads in the northeast quarter of the sheet. The roads have been corrected from the original photographs.

The original T-5218 is a chart paper copy, no Whatmans copy having been made.

The corrections noted above as shown on T-5218A were made prior to publication.

August 25, 1937.

B. G. JONES