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DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic | Sheet No. T-5147

State Georgia

LOCALITY

GeGeorgiast Coust

Saxannah River

Libriala noterimili

1934

CHIEF OF PARTY

S. B. Grenell

applied to chart 440 June 17, 1936 g.H.S.

DEPARTMENT OF COMMERCE

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	
REGISTE	R NO. 5147 *
State Georgia	
General locality รื่องก็เพื่อ	
Locality wilmington is properly prop	10008: 10-11-22
Vessel. Air Photo Compilation Reviewed and recommended for ap Chief of party Lieut. (j.g. Photos plottes by: R. D. Co	mente 1.
Inked by C. E. Helfri	oh .
Heights in feet above	to ground to tops of trees
Contour, Approximate contour,	Form line intervalfeet
Instructions dated	November 10, 1933 , 19
Remarks: Compilation of aerial	phatos Nos.; 1426 to 1440;
1353 to 1357	

--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. T-5117

PHOTO NO. 1353 to PHOTO NO. 1357

	and the	FINISH
5 -	START	
ROUGH RADIAL FLOT Warren Fitch	12-20-33	12-20-33
SCALE FACTOR (.940 S.NB. Grenel1	1-5-34	1-5-34
SCALE FACTOR CHECKED SOL		
PROJECTION J. C. Partington	1-25-34	1-25-34
PROJECTION CHECKED F. B. Hickman	1-26-34	1-26-3/
CONTROL PLOTTED F. B. Hickman	1-26-34	1-26-34
CONTROL CHECKED R. D. Cross	1-27-34	1-27-34
TOFOGRAPHY TRANSFERRED_		
TOPOGRAPHY CHECKID_		
SMOOTH RADIAL LINE PLOT R. D. Cross		2-27-34
RADIAL LINE PLOT CHECKED Should		2-27-34
DETAIL INTED Common E. Halfrich	7-30-34	8-21-34
AREA DETAIL INKED 12.8		
LENGTH OF SHORE LINE OVER 200m. 1	3.3 Statut	o Miles
LENGTH OF SHORE LINE UNDER 200m.	33.4 Statut	o Milos
GENERAL LOCATION Savenacher	ivens:	
LOCATION Wilmington Island		
DATUM STATION Venue 2, 1932	LATITUDE 32-03-L	3.958 (1354.0M)
Datum N. A. 1927	LONGITUDD 80-56-	39.55L (1037.5M)

REPORT OF COMPILATION:

RADIAL LINE PLOT

The standard radial line plot method was used to compile this sheet.

ADJUSTMENT OF PHOTOGRAPHS:

A very small amount of tilt was found in the photographs. Most of the difficulty encountered was due to the lack of well selected and spaced radial points.

INTERPRETATION:

The photographs were cloudy and detail difficult to interpret. This difficulty was overcome by a field inspection by the draftsman.

An abandoned railroad was shown by two rows of sand dots.

COMPARISON WITH CONTEMPORARY SURVEYS:

All junctions were made with adjoining compilations and are complete and satisfactory. Shoreline was checked with hydro sheets of C.A. Egner.

Some difference was found between shoreline on this compilation and that of the hydro sheets of C.A. Egner with special reference around Turner Creek Bridge. The difference was corrected on the compilation after it was found to have been traced from detail too far out on the picture. It was necessary to plot this area from Single lens picture and then transpose the radial points thus obtained to this compilation to complete the area up the highway.

COMPARISON WITH OTHER SURVEYS:

In general the waterways check with waterways shown on current U. S. C & G. Survey charts except the smaller creeks. Some have silted up as at (32-01-.6) (80-57.3) and (32-02.7) (80-58.8) which are now only small creeks not surrounding the islands.

ACCURACY AND COMPLETENESS:

Probable error in well defined detail 3 meters.
Probable error in less well defined detail 10 meters.

PHOTOGRAPHS:

No.	to	No.	Time	Date	Stage of Tide
以26 1353		11վ10 1357	11:10 AM 10:110 AM	10-11-33 10-11-33	145 315 L'Helfisch

C. E. Helfrich Draftsman

Approved:

S. B. Grenell

REVIEW OF AIR PHOTO COMPILATION T-5147 (1935)

September 1935

1. Comparison with Contemporary Graphic Control Surveys

a. T-6154a (1:10,000), July-Aug. 1934

A field comparison has been made between the compilation and T 6154a. (See page 4 of the combined inspection report filed with descriptive report, T-5141.) This has been checked in the office. There are differences of 0 to 45 meters between the compilation shore line and the graphic control shore line. In general the shore line on T-6154a falls outside the compilation shore line. This probably is due to the fact that the graphic control party rodded in mud banks which are not visible on the photographs. The compilation is accepted as showing the better location for the high water line.

Details appearing on T-6154a which are not included on the compilation are as follows:

- (1) U. S. Engineer sounding ranges.
- (2) U. S. Engineer grid system. (For discussion see descriptive report, T-6154 to T-6156.)
- (3) Magnetic meridian.

b. T-6192 (1:10,000), April-May 1934

At lat. 32° 01.3', long. 80° 59.2' the compilation shore line varies 0 to 27 meters from the shore line on T 6192. The compilation has been compiled from 5-lens 1:10,000 scale photographs and the area under discussion falls near the outer edge of the wing prints where the photo plot is weak. However, this is near a junction with T-5146 which has been compiled from single lens 1:10,000 scale photographs. Locations of points along the junction have been accepted as correct. An uncontrolled radialplot along Turners Creek has been made and shore line traced from 5-lens 1:20,000 scale photographs. After enlargement on the projector this checked in general with the compilation. The position of topographic station Tent on T-6192 is doubtful. This station apparently has been cut in from a traverse and the fix is weak. According to descriptive report, T-6192, topographic station Tent is 10 meters from the high water line, but it falls 80 meters outside the compilation shore line. Shore line on T-6192 probably has been located from this station. Due to the weakness of the compilation photo plot

and the lack of control in the area under discussion, there is a possibility of errors in location up to 10 meters on the compilation. However, no better location of the shore line can be determined. The compilation shore line is accepted.

At lat. 32° 02.6', long. 80° 58.1', the compilation shore line falls from 5 to 27 meters inside the shore line on T-6192. The compilation shore line agrees with two other short sections of graphic control shore line in this area. The difference probably is due to sketching on T-6192. The compilation shore line is accepted as correct.

Details appearing on T-6192 which are not shown on the compilation are as follows:

- (1) Temporary topographic stations.
- (2) Magnetic meridian.

Comparison with Previous Topographic Surveys

a. T-379 (1:10,000), 1852

This is a plane table survey of part of the Savannah River. In the area covered by the compilation there have been extensive changes, particularly in the marsh separating the South Channel from the Savannah River.

The compilation is complete and adequate to supersede the area on T 379 which it covers.

b. <u>T-992 (1:20,000), 1865-67</u>.

Except for minor changes in marshy shore lines there is little difference between the compilation and T-992. The compilation is complete and adequate to supersede the area covered on T-992.

c. <u>T-1348b (1:5,000), 1874</u>

This is a detailed survey of the Savannah River, showing a chain of islands separating the South Channel from the main river. Since T-1348b was completed, these islands have formed into a continuous marsh.

The compilation is complete and adequate to supersede the area covered on T-1348b.

3. Comparison with Contemporary Hydrographic Survey

H-5550 (1:10,000), 1934

There are no conflicts between the compilation shore line and the hydrography.

Comparison with Charts 4.

The compilation area is covered by charts 440 and 1240. Training walls and jettys shown along the Savannah River on the charts can not be seen on the photographs. It is assumed that they are submerged and overgrown. They are not shown on the compilation.

The Central of Georgia Railroad has been abandoned from a point east of Savannah (see descriptive report, T-5143) to Tybee Island. The embankment still shows above the level of the surrounding marsh.

5. Projection

The projection has been checked in the office. Due to unequal shrinkage of the poor quality celluloid (no longer in use), the scale along the parallels is about 3 meters in 1000 less thanthat along the The distance between parallels 32° 02' and 32° 03' is short by 3 meters.

Recoverable Stations 6.

Recoverable stations transferred to the compilation have been plotted by I.R. Sofiendski and checked by L. C. Lande marked (d) are described on Form 524 and filed under T-6166 and T-6192.

Three undescribed recoverable stations (Sid, Tent, and Ray) have not been transferred from T-6192. Sid and Tent fall outside the compilation high water line. According to descriptive report T-6192, station Ray is a marked pine tree 10 meters from the high water line. When plotted on the compilation the station falls in a marsh area 127 meters from the nearest shore line. These stations have been circled in green on T-6192 and a note has been placed thereon referring to this review.

Landmarks, Lights and Beacons 7.

There are no landmarks or beacons in the compilation area. One range light is shown.

Respectfully submitted

October 2, 1935.

V. R. Lobievalski 10-3-35 Dank G. Erskus

GEOGRAPHIC NAMES

Date. May	20.	1955

~ 70	OR C	TA
I = M.		

Survey No	T-5147	_
Chart No	440-1240	_
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	New Names in local use	Names assigned by Field	Location
	Jones Island				
- · · ·	Savannah River				
	Long Island ·				
· · ·	South Channel				
•	McQeens Island				
	St Augustine Rereck				
· · · · · · · · · · · · · · · · · · ·	Oatland Island				
,	Richardson Creek				
,	TurnerXCreek				
/	Whitemarsh Island		-	, '	
<u>/</u>					
	Shad River.			:	
	Gibson Point	9		1	
	Bird Island				
		APPROVED NAMES			
		ONDY			
					(

REVIEW OF AIR PHOTO COMPILATION NO. 7-5/47

chief of Party: S.B. Grenel)

Compiled by: C. Helfrich

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.) 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) 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, earal reefs and reaks, 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 C.A. Equat. 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 C.A. Equal. 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 MA. 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.
- 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;

Chief of Party

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

Reviewed in office by: U. R. Sobieralaki

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.