5143

U. S. COAST & GEODETIC SURVEY

SEP 5 1935

Acc. No.

| FORM 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY |
|---|
| State: Georgia & S. Car. |
| DESCRIPTIVE REPORT |
| Topographic Sheet No.7-5143 |
| LOCALITY |
| Georgia: 8d: South Carolina |
| Have Savannah-River - Da Islan |
| Barnwell Island |
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| 193 4 |
| CHIEF OF PARTY |
| S. B. Grenell |

applied to chart 440 Jane 12, 1936 g.H.S.

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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. 5143 1240.7 5150 State Georgia & South Carolina |
| General localitySavannial Riverst |
| Locality . SeBarh welled and ity liba loland |
| Date of photographs: 10/11/33 Scale 1: 10,000 Date of survey Comp: , 19 |
| Vessel Reviewed and recommended for approval: Chief of party Lieut. (j.g.) S. B. Grenell Photographs plotted by: T. R. Cooper R. D. CROSS |
| Inked by J. W. Osteen, Jr. |
| Heights in feet aboveto ground to tops of trees |
| Contour, Approximate contour, Form line intervalfeet |
| Instructions dated November 10 , 1933. |
| Remarks: Compilation of serial photos Nos.: 1114 to 1127, an |
| 1368 to 1378 |

-- 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.

1/11/1 1

PHOTO NO 1368

to PHOTO NO. 1378

FINISH START BYROUGH RADIAL FLOT Warren Fitch 12/21/33 SCALE FACTOR (.940) S. SCALE FACTOR CHECKED 1/30/34 PROJECTION J. C. Partington J.B. Hickman PROJECTION CHECKED F. B. Hickman T. R. Cooper 1/31/34 CONTROL PLOTTED CONTROL CHECKED TOFOGRAFHY TRANSFERRED TOPOGRAPHY CHECKED SMOOTH RADIAL LINE PLOT R. D. Cross 2/7/34 RADIAL LINE FLOT CHECKED J. W. Osteen. Jr DETAIL INTED 10/2/3/ 11 AREA DETAIL INKED Square Statute Miles LENGTH OF SHORE LINE OVER 200m. 9.7 Statuto Milos LENGTH OF SHORE LINE UNDER 200m. 13:4 Statuto Milos GENERAL LOCATION Savanger Const LOCATION Barmelly alba Laland DATUM STATION Savannah South Base LATITUDE 32-05-33-773 (1010-24) (S.C.) 1850-1932 (adjusted) DATUM N. A. 1927 LONGITUDE81203-18,709 (L90.5M)

REPORT OF COMPILATION:

COMPILATION METHOD:

See note of 9/21/34 which is attached to this report.

ADJUSTMENT METHOD:

The pictures for this sheet had more than the average amount of tilt. This necessitated the interlacing of radial points and very careful adjustment was required.

There should have been a great many more points than were picked on these photographs.

INTERPRETATION:

With the exception of a few pictures of the area covered by abandoned rice fields, the photographs were clear and all shoreline well defined. Standard symbols were used throughout.

INFORMATION FROM OTHER SOURCES:

All information for the compilation of this sheet was obtained from the photographs.

COMPARISON WITH OTHER SURVEYS:

All junctions with other sheets have been made satisfactorily.

This sheet joins single lens sheet No. 5211-A at the southeast corner and part of the sheroline is covered by No. 5211, A.F.5146. There was a difference in scale between these two sheets and proportional dividers were used to make these junctions.

On the Corps of Engineers U. S. Army Tactical Map in the Savannah Quadrangle, two islands are shown to the west of Elba Island in Back River. They are maded Barnwell 1 and 2.

Dredging operations in the past few years have filled the space between these islands and also between these islands and the mainland. The South Carolina - Georgia boundry line at this point was formerly the creek which divided these islands from the mainland.

The present existing conditions are shown on sheet 7-5143.

The Central of Georgia R. R. tracks from Savannah to Tybee Island have been taken up to a point approximately one mile east of Le Pageville. This old roadbed has been shown by a double row of sand dots.

REPORT OF OMPILATION

ACCURACY AND COMPLETENESS:

The area covered by these sheets is complete in every detail as nearly as can be determined by the photographs.

All well 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 |
|--------------|--------------|----------------------|-----------|---------------|
| 1368 1415 | 1378 Ц25 | 10/11/33 10/11/33 | 10.45A.M. | 3/5 3/5 |
| 1415 | 1 425 | 1 0/11/33 | 11.00A.M. | 3/ 5 |

J. V. Osteen, Jr., Draftsman

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Approved:

SHEETS: 7:5142, T-5143350

5 Lens, 1:10,000 scale

The two 1400 flights on this sheet were run through by R. D. Cross at an earlier date and the north flight (1300) was held up due to lack of control. Due to difference in celluloid, it was impossible to fasten sheets 5141, 5142 and 5150 together to run this flight, so a master projection was made for these sheets and radial plot carried through holding new control and points established by 1400 flights.

These points were transferred by matching projection lines near the points to be transferred.

F. B. Hickman

Note:
Additional detail from T-6165 (Additional work 1936) has been added to the file copy and to the proof of this compilation for which printing is not yet completed.

H. M. Schleiter

1/11/37

Review of Air Photo Compilation T 5143 (1935)

June 1935

1. Projection

The projection has been checked in the office. Parallel 81°00' is from 0 to 3 meters too far east. This has not been corrected as the change would affect the location of control.

2. Comparison with Contemporary Graphic Control Surveys

T 6155a, b (1:10,000), June-September 1934

No shore line is shown on the graphic control surveys. The high water line is indicated by pencil lines connecting points measured from U.S.E. sounding ranges. (See descriptive report T 6154a-T 6156b.) The compilation shore line agrees, in general, with the penciled lines on T 6155a and b.

Details appearing on T 6155a and b which have not been transferred to the compilation are as follows:

- (a) Temporary topographic stations.
- (b) Magnetic meridians.
- (c) Range azimuths. All range beacons are shown but the azimuths have not been transferred to the compilation.
- (d) U.S.E. dredging ranges.
- (e) U.S.E. grid system. For discussion of the grid system see descriptive report T 6154a-T 6156b.

Comparison with Previous Surveys

(a) T 343 (1:10,000), 1852

Only sections of shore line between Fig and Elba Islands are shown on T 343.

The compilation is complete and adequate to supersede T 343.

(b) <u>T 383</u> (1:5,000), 1852

The rice fields shown on T 383 have been abandoned and are becoming indistinguishable from the surrounding marsh.

The compilation is complete and adequate to supersede that part of T 383 which it covers.

(c) T 992 (1:20,000), 1865-67

T 992 covers the area on the compilation south of the Savannah River. The detail is not complete, but the area appears to have remained practically the same.

The compilation is complete and adequate to supersede that portion of T 992 which it covers.

(d) T 1027 (1:5,000), 1866

This is a detailed survey of Ft. Jackson and adjacent fortifications on both sides of the Savannah River. It is now obsolete.

4. Comparison with Contemporary Hydrographic Surveys

H 5572 (1:10,000), 1934

No conflicts have been found between the compilation shore line and the hydrography.

5. Comparison with Charts

The area of the compilation is covered on charts Nos. 440 and 1240. The jetties shown on the charts at Fig Island and Mackey Point can not be identified on the photographs. They have not been shown on the compilation.

The following corrections are recommended to be applied to the charts:

- (a) Remove pier at lat. 32°05.7', long. 81°01.3'
- (b) Remove C. of G. R.R. east of long. 81° 02.5'
- (c) Remove railroad bridge at lat. 32°04.4', long. 81°00.1'
- (d) Replace railroad bridge at lat. 32°04.5', long. 81°00.9' with piling.
- (e) Remove railroad spur from lat. 32°04.3', long. 81°03.3' to river
- (f) Add a pier at lat. 32°05.2', long. 81°01.4'

6. Additions and Corrections

- (a) The mooring dolphins (lat. 32°05.2', long. 81°01.5') have been added to the compilation from the photographs.
- (b) The training wall (lat. 32°06.1', long. 81°00.1' to lat. 32°05.9', long. 81°01.1') has been added to the compilation in the office. This detail was noted on the field photographs.
- (c) The jetty (lat. 32°05.5', long. 81°01.1') has been added to the compilation to the extent shown on the field photographs. The piling located on H 5572 (lat. 32°05.4', long. 81°01.2') checks the end of the jetty as shown on the compilation.

7. Recoverable Stations

All recoverable stations shown on the compilation have been transferred from T 6155a and b, and T 6165. Those marked (d) are described on Form 524 and filed under T 6155a and b and T 6165. Transfer of all recoverable stations to this compilation has been checked in the office by laying the compilation over the graphic control surveys. The locations of Pure Oil Tank (d) and Standard Oil Tank (d) on T 6155b do not agree with the photo plot locations of these stations. These positions have been scaled from the compilation by V. K. Solienskie and checked by D. K. General Descriptions on Form 524 are filed under T 5143. The cards have been corrected to agree with the photo plot positions, and a note made on the plane table survey.

8. Landmarks, Lights and Beacons

No landmarks are shown on the charts. All lights and beacons shown on charts Nos. 440 and 1240 are included on the compilation.

Respectfully submitted, V.R. Sobieraleri 8-23-35

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Approved K.T. Adams

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| GEO | GRA | PHIC | NAC | MFS. |

| Survey No | T-51/13 |
|-----------|---------------|
| Chart No. | 0بلبا = 0بلا2 |

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| Diagram | No. | | |
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Approved by the Division of Geographic Names, Department of Interior.
Referred to the Division of Geographic Names, Department of Interior.
R

Under investigation. Q

Date. 6/25/35

| Status | Name on Survey | Name on Chart | New Names in local use | Names assigned by Field | Location |
|----------|-----------------------|--------------------------|---------------------------|----------------------------|----------|
| | Back River | Same | | , | |
| | Barnwell Island | 11 | | | |
| | Barnwell Island No. 2 | 11 | | | |
| | Elba Island | n | | | |
| | Fig Island | н | | | |
| | Fort Jackson | 11 | | | |
| | Habersham Creek | n | | | |
| | Le Pageville | U. S. E. Recon. Savannak | Quad. | | |
| | Mackey Point | Same on charts | | | |
| | 1 Anguntine Greek | U2-S, E. Boson, Savennak | - Quad . | | |
| | Salt Water Creek | tt . | | | |
| | Savannah River | Same on charts | | | |
| • | Wilmington River | ** | | | |
| <u> </u> | Wright River | | | | |
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REVIEW OF AIR PHOTO COMPILATION NO. 7-5/43

Chief of Party: S. B. Grenell

Compiled by: J. 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)
- 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.
- 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, 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 C.A. Equer 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. Equer 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. 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 Longi- V tude are correctly marked.

- 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.
- 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:

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18. Examined and approved;

Chief of Party

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

Reviewed in office by: U.R. Sobierolski Miggiores

Examained and approved:

Azar Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.