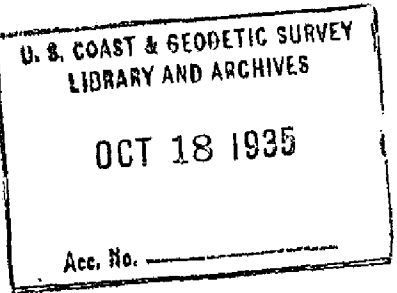


5144



5144

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5144
~~Hydrographic~~

State Georgia & South Carolina

LOCALITY

Georgia Georgia & South Carolina Coast

Savannah River

Jones Island

1934

CHIEF OF PARTY

D. B. Grenell

Applied to chart 839 Nov. 1935 H.C.
Applied to chart 440 June 1935 J.H.S.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 5144

State..... Georgia & South Carolina

General locality..... Savannah River

Locality..... Jones Island

Scale 1:10,000 Photos 10-11-33
Date of ~~Survey~~, 19.....

Vessel Aerial Photo Compilation Party No. 18

Chief of Party..... Lieut. (j.g.) S. B. Grenell

Photos plotted by:

~~Surveyed by~~..... R.D. Cross

Inked by..... T.R. Cooper; E. Beck & A. M. Gruber

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....November 10, 1933....., 19.....

Remarks:.....Compilation of aerial photos Nos. 1351 to 1357.....

T. 5144 East Half and T. 5144 West Half were combined in the Printing Section to form this compilation.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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. 5144 (West Half)

State Georgia & South Carolina

General locality Georgia & South Carolina East Coast

Locality Savannah River

Scale 1:10,000 Date of photos: 10-11-33 survey, 19....

Vessel Aerial Photo Compilation Party No. 18

Reviewed and recommended for approval
Chief of party Lieut. (j.g.) S. B. Grenell

photos plotted by: R. D. Cross
~~Surveyed by~~

Inked by T. R. Cooper

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 10, 1933, 19....

Remarks: Compilation of aerial photos Nos.: 1357 to 1367

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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. 5144 (East Half)

State South Carolina

General locality South Carolina East Coast

Locality Tybee Roads

Scale 1:10,000 Date of photos: 10-11-33
Survey, 19

Vessel Aerial Photo Compilation Party No. 18

Reviewed & recommended for approval:
Chief of party Lieut. (j.g.) S. B. Grenell
photographs plotted by:

~~Surveyed by~~ R. D. Cross

Inked by E. Beck & A. M. Gruber

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 10, 1933, 19

Remarks: Compilation of aerial photos Nos.: 1351 to 1357

--NOTES OF 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 personnell 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. 5144 (West Half)

PHOTO NO. 1357 to PHOTO NO. 1367

BY	START	FINISH
ROUGH RADIAL PLOT <u>Warren Fitch</u>	<u>12-21-33</u>	<u>12-21-33</u>
SCALE FACTOR (.940) <u>S. B. Grenell</u>	<u>1-6-34</u>	<u>1-6-34</u>
SCALE FACTOR CHECKED <u>(S.B.G.)</u>		
PROJECTION <u>J. C. Partington</u>	<u>2-1-34</u>	<u>2-1-34</u>
PROJECTION CHECKED <u>R. D. Cross</u>	<u>2-1-34</u>	<u>2-1-34</u>
CONTROL PLOTTED <u>F. B. Hickman</u>	<u>2-1-34</u>	<u>2-1-34</u>
CONTROL CHECKED <u>T. R. Cooper</u>	<u>2-1-34</u>	<u>2-1-34</u>
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT <u>R. D. Cross</u>	<u>2-8-34</u>	<u>2-27-34</u>
RADIAL LINE PLOT CHECKED <u>(S.B.G.)</u>		<u>2-27-34</u>
DETAIL INKED <u>T. R. Cooper</u>	<u>3-17-34</u>	<u>3-24-34</u>
AREA DETAIL INKED <u>11/5</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>17.0</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>10.7</u>	Statute Miles	
GENERAL LOCATION <u>Georgia & South Carolina East Coast</u>		
LOCATION <u>Savannah River</u>		
DATUM STATION <u>Venus - 2 (S.C.) 1932</u>	LATITUDE <u>32-03-43.958 (1354.0M)</u>	
DATUM <u>N. A. 1927</u>	LONGITUDE <u>80-56-39.554 (1037.5M)</u>	

REPORT OF COMPILATION:COMPILATION METHOD:

This sheet was compiled by the standard radial line plot method. Because of high shrinkage and expansion factors in this type of celluloid all projection lines and control had to be re-plotted before the radial plot could be run through.

ADJUSTMENT OF PHOTOGRAPHS:

Except for the average amount of tilt, no difficulty was experienced in the adjustment of photographs. In areas more affected by tilt, a supplementary system of radial points was put in.

INTERPRETATION:

The photographs were very clear and no difficulty was experienced in tracing detail except in delineation of indefinite borders of old spoil banks along Savannah River. Except for the spoil banks, some of which are now covered by low brush, the entire area of the sheet is covered by salt marsh.

INFORMATION FROM OTHER SOURCES:

Information used in compiling this sheet was obtained from the photographs, field inspection sketches and the draftsman's personal knowledge of this area.

COMPARISON WITH OTHER SURVEYS:

Junctions with adjoining 1:10,000 five lens ~~atlas~~ sheets and other sheets compiled in this office are complete and satisfactory. On the east it joins ~~single lens 1:10,000 sheet T-5213~~; on the south with ~~atlas~~ sheets T-5147, T-5148 and on the west with ~~atlas~~ sheet T-5143. Junctions have been made with single lens 1:10,000 sheet T-5146 to the southwest and with five lens 1:20,000 sheet T-5138 to the north. The Central of Georgia R. R. on Mc Queen Island has been abandoned and should be removed from charts.

ACCURACY AND COMPLETENESS:

As nearly as can be determined from the photographs this sheet is complete in every detail. Well defined detail should be located with an 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
1357		1367	10-11-33	10:40AM	3/5

T. R. Cooper
T. R. Cooper,
Draftsman

Approved:

S. B. Grenell
S. B. Grenell

--NOTES OF 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 personnell 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. 5144 (East Half)

PHOTO NO. ¹³⁵¹ to PHOTO NO. ¹³⁵⁷

BY	START	FINISH
ROUGH RADIAL PLOT <u>Warren Fitch</u>	<u>12-21-33</u>	<u>12-21-33</u>
SCALE FACTOR (940) <u>S. B. Grenell</u>	<u>1-6-34</u>	<u>1-6-34</u>
SCALE FACTOR CHECKED <u>S. B. Grenell</u>	<u>1-6-34</u>	<u>1-6-34</u>
PROJECTION <u>J. C. Partington</u>		
PROJECTION CHECKED <u>S. B. Grenell</u>		
CONTROL PLOTTED <u>R. D. Cross</u>	<u>2-19-34</u>	<u>2-19-34</u>
CONTROL CHECKED <u>J. C. Partington</u>		
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT <u>R. D. Cross</u>	<u>2-20-34</u>	<u>2-28-34</u>
RADIAL LINE PLOT CHECKED <u>S. B. Grenell</u>	<u>2-20-34</u>	<u>2-28-34</u>
DETAIL INKED <u>E. Beck & A. M. Gruber</u>	<u>3/1/34</u>	<u>3/10/34</u>
AREA DETAIL INKED <u>3.5</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>6.7</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>2.9</u>	Statute Miles	
GENERAL LOCATION <u>South Carolina East Coast</u>		
LOCATION <u>Tybee Roads</u>		
DATUM . STATION <u>Cow, 1933</u>	LATITUDE <u>32-05-38.576 (1188.2M)</u>	Field
DATUM <u>N. A. 1927</u>	LONGITUDE <u>80-54-07.211 (189.2M)</u>	Datum Corr.

REPORT OF COMPILATION:

Compilation No. 75144 (E)

RADIAL LINE PLOT:

The standard radial line plot method was used to plot this compilation.

No difficulty was experienced in carrying the plot through to adjoining sheets because the adjoining sheets were the same scale.

ADJUSTMENT OF PHOTOGRAPHS:

Excessive tilt was encountered at the beginning of the flight on this compilation, which made frequent adjustment necessary.

Radial points were too few and badly spaced, and at the time of compiling this sheet the interlacing of points was not used. Subsequent interlacing indicates the compilation to be correct and satisfactory.

INTERPRETATION:

Pictures for this compilation were clear and no difficulty was experienced in deciding shoreline. Standard topographic symbols were used on this sheet.

COMPARISON WITH CONTEMPORARY SURVEYS:

The junction between this compilation and 5213 (1:10,000) was made by the use of proportional dividers, prior to construction of the projector. The junction between this compilation and 5134 (1:20,000) was made by using the projector. All junctions were satisfactory and complete. The shoreline as drawn was checked with hydro. sheet of C. A. Egner, 1934 and found to agree.

COMPARISON WITH OTHER SURVEYS:

Beacon No. 8 on chart 1240 (1933) is not in agreement with compilation location.

ACCURACY AND COMPLETENESS:

It is felt that the required accuracy and completeness have been obtained on this compilation. Errors in well defined detail are not greater than 4 meters and errors in less well defined detail are not greater than 10 meters.

PHOTOGRAPHS:

No.	to	No.	Time	Date	Stage of Tide
1351		1356	10:40 AM	10-11-33	3/5

E. Beck, Draftsman.

A. M. Gruber
A. M. Gruber, Surveyor.

Approved:

S. B. Grenell
S. B. Grenell

Review of Air Photo Compilation T-5144 (1935)

September, 1935

1. Comparison with Contemporary Graphic Control Surveys

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

There are no conflicts between the compilation shore line and shore line on T-6154a.

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

- (1) Temporary topographic stations,
- (2) U. S. Engineer sounding ranges,
- (3) U. S. Engineer grid system, (For discussion see descriptive report, T-6154 to T-6156.)
- (4) Magnetic meridian,
- (5) Range lines. Range beacons are shown on the compilation, but the azimuths have been omitted.

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

No shore line is shown on T-6155a. The shore line has been indicated by a pencilled line connecting points measured in the field from the U. S. Engineer sounding ranges. The compilation shore line agrees with this pencilled line.

Details shown on T-6155a 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) Range lines. The range beacons are shown on the compilation, but the azimuths have been omitted.
- (4) Magnetic meridian.

c. T-6140a (1:10,000), Sept. 1934 and T-6165 (1:10,000), Oct. 1934

Only a small part of each of these surveys is covered by the compilation. No shore line is shown on either T-6140a or T-6165 in the compilation area. No comparison has been made.

2. Comparison with Previous Topographic Surveys

T-379 (1:10,000), 1852, and T-1348a (1:5,000), 1874

The general course of the Savannah River has remained the same, but extensive changes have taken place in the shore line. This is primarily due to the channel improvement operations of the U. S. Engineers.

The compilation is complete and adequate to supersede the areas covered on T-379 and T-1348a.

3. Comparison with Contemporary Hydrographic Surveys

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

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

4. Comparison with charts

The compilation area is covered on charts 440 and 1240. There are no major shore line changes to be applied to the charts. Training walls and some of the jettys shown on the charts can not be identified on the photographs. They have not been shown on the compilation. The wreck shown on the charts (lat. 32° 04.0', long. 80° 57.2') is not visible on the photographs and has not been shown on the compilation.

5. Projection

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

6. Recoverable Stations

on the compilation
All recoverable stations have been transferred from T-6140a, T-6154a, T-6155a, and T-6165. Those marked (d) are described on Form 524 and filed under T-6140a, T-6155a and T-6165. The following stations have been transferred in the office by H. R. Sobierulski and checked by D. H. BENDER:

<u>Station Name</u>	<u>Transferred from</u>
Dec (d), Fields Cut Bn "10"	T-6140a
Walls Cut Bn "6"	"
S. Channel Range 5 Front Bn	T-6155a
S. Channel Range 5 Rear Bn	"
St. Augustine Cr. Range Front Bn 9	"
St. Augustine Cr. Range Rear Bn 9	"
Not (d)	T-6165

7. Additions and Corrections

on the compilation
The piling shown on the north shore of the Savannah River (lat. 32° 04.0', long. 80° 57.0'; lat. 32° 04.3', long. 80° 57.3'; lat. 32° 05.9', long. 80° 59.7') has been added to the compilation in the office from the photographs.

8. Landmarks, Lights and Beacons

All landmarks, lights and beacons shown on the charts are included on the compilation. No new aids have been added.

Oct. 2, 1935.

J. R. Sobieralski

10-3-35

Frank H. Eakline

Survey No. T-5144

Date. May 18, 1935

Chart No. 440, 1240

GEORGIA & SOUTH CAROLINA

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

[illegible]

REVIEW OF AIR PHOTO COMPILATION NO. *T-5144*

Chief of Party: *S. B. Grenell*

Compiled by: *T. R. Cooper
E. Beck
A. Gruber*

Project: *FP4 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) *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, coral reefs and~~ reefs, 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. 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 submitted by C.A. Egner 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 naviga-
tion is given in the descriptive report. (Par. 16c) *None*
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 *N.A. 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- ✓
tude 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;

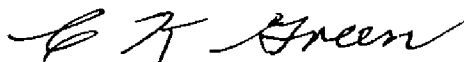


Chief of Party

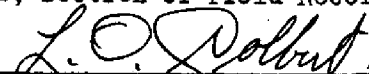
19. Remarks after review in office: *See review pages.*

Reviewed in office by: *V. R. Sobieralski*
Frank G. Enkine

Examined and approved:



Chief, Section of Field Records



Chief, Division of Charts



Chief, Section of Field Work



Chief, Division of Hydrography
and Topography.