

5227

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

_____, Director

State: Georgia

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 5227

LOCALITY
VICINITY OF ST. SIMON SOUND

~~Coast of Georgia~~

JEKYLL ISLAND

~~St. Simon Island to Jekyll Sound~~

1934

CHIEF OF PARTY

S. B. Grenell

5227

applied to new chart 448 (thru chart 84) July 1937 J.G.R.

applied to chart 1242 Mar. 16, 1939 G.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. 5227

State Georgia

General locality Coast of Georgia VICINITY OF ST. SIMON ISLAND SE.

Locality St. Simon Island to Jekyll Sound JEKYLL ISLAND

Scale 1 : 10,000 Date of photographs: 12-16-33
Date of ~~survey~~ Comp. 12-17-33, 1933

Vessel Air Photo Compilation Party #18

Reviewed and recommended for approval:

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

Photographs plotted by:

~~Surveying~~ F. B. Hickman

Inked by W. C. Oliver

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 10, 1933

Remarks: Compilation of aerial photos Nos: (789) M-126 to M-132;

M-86 to M-91; M-107 to M-112.

--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. 5227

PHOTO NO. ^{(789) M-126}
^{(789) M-86 to} PHOTO NO. ^{(789) M-132}
^{(789) M-107} ^{(789) M-91}
^{(789) M-112}

BY	START	FINISH
ROUGH RADIAL PLOT <u>S. B. Grenell</u>		
SCALE FACTOR () _____		
SCALE FACTOR CHECKED <u>S. B. Grenell</u>		
PROJECTION <u>A. A. Futral</u>	<u>3-21-34</u>	<u>3-21-34</u>
PROJECTION CHECKED <u>F. B. Hickman</u>	<u>5-7-34</u>	<u>5-7-34</u>
CONTROL PLOTTED <u>F. B. Hickman</u>	<u>5-8-34</u>	<u>5-8-34</u>
CONTROL CHECKED <u>Warren Fitch</u>	<u>5-9-34</u>	<u>5-9-34</u>
TOPOGRAPHY TRANSFERRED _____		
TOPOGRAPHY CHECKED _____		
SMOOTH RADIAL LINE PLOT <u>F. B. Hickman</u>	<u>5-10-34</u>	<u>5-17-34</u>
RADIAL LINE PLOT CHECKED <u>S. B. Grenell</u>	<u>5-17-34</u>	<u>5-17-34</u>
DETAIL INKED <u>W. C. Oliver</u>	<u>5-19-34</u>	<u>7-2-34</u>
AREA DETAIL INKED <u>24.2</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>34.7</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>61.0</u>	Statute Miles	
GENERAL LOCATION <u>Coast of Georgia</u>		
LOCATION <u>St. Simon Island to Jekyll Sound</u>		
DATUM STATION <u>Joe 1933</u>	LATITUDE <u>31-05 + 761.8</u>	(UNADJUSTED)
DATUM <u>N. A. 1927</u>	LONGITUDE <u>81-28 + 1052.0</u>	

INSPECTION REPORT
Sheet #5227

REFERENCE:

In reviewing this sheet in the Washington office, reference should be made to the General Report for Single Lens Sheets filed with sheet 5206.

GENERAL INFORMATION:

With the exception of Jekyll Island the area of this sheet consists of the usual type of salt marsh found along the coast. The streambanks are well defined and the marsh generally dense and continuous. The only feature worth of special note is the section around the mouth of Jointer Creek where the main marshline is bordered with a mud flat formation covered with a sparse and scattering growth of grass. This mud and grass area covers at high water leaving a definite marsh line exposed as shown by the solid line. The mud flat and grass area has been indicated by a dashed outline and double spaced marsh symbols.

Jekyll Island is a privately owned preserve and is heavily wooded on the fast land areas except where cleared for roads, golf links, etc. The growth consists of a mixture of pine and dididuous trees with live oak predominating along the shoreline.

The outer beach consists of fine white sand and low grassy dunes with stretches of eroded bank where heavy storms have washed back to the treeline. This beach changes its contour slightly with every heavy storm.

CONTROL:

This sheet was controlled entirely by triangulation; no topographic control was used.

The greater part of the control was from the revision survey executed by C. M. Durgin in 1932-33. There were a few stations up the Little Satilla River established by H. A. Paton, 1934.

LANDMARKS FOR CHARTS:

Lists of landmarks in this area will be submitted by J. A. Bond, and H. A. Paton, 1934. This sheet covers the junction between the projects of the above named Chiefs of Party.

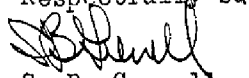
COAST PILOT NOTES:

Notes will be submitted by J. A. Bond and H. A. Paton, 1934.

NAMES:

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

Respectfully submitted,


S. B. Grenell

REPORT OF COMPILATION:

COMPILATION METHOD:

This sheet was compiled by the standard radial line plot method. No trouble was experienced in this radial plot and the plot adjustment was very good.

ADJUSTMENT OF PHOTOGRAPHS:

Very little difficulty was experienced in adjusting the photographs through this sheet. Picture 111 was not used because of tilt but on the whole the pictures hit very good. The system of interlacing points was used where there was a scarcity of points.

INTERPRETATION:

No trouble with interpretation at all. Pictures were very good. The standard topographic symbols were used to indicate the detail on this sheet. In the southwest corner of the sheet, Little Satilla River, the dashed line represents extensive mud flats surrounding the marsh islands. Some spots in the mud flats are spotted with thin marsh growth as indicated. The shoreline near the mouth of Joiners Creek and around the Brunswick River is indefinite because a thin growth of low marsh grass extends out on the mud flats beyond the edge of the marsh proper. The high water line has been held back on the dense marsh grass line and the outer line has been indicated by a dashed line with broken marsh symbols between.

INFORMATION FROM OTHER SOURCES:

The only source of information other than from the photographs was a piece of shoreline on the aluminum mounted sheets of the hydrographic party. Aluminum mounted sheets A, B, C, from H. A. Paton's party were checked against the shoreline and they hit within the allowable limit. In some cases the topographer rodged in the outside of the mud flats as at the mouth of Joiners Creek.

COMPARISON WITH OTHER SURVEYS:

see review of back.

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

ACCURACY AND COMPLETENESS:

The area covered on this sheet is complete in every detail. As nearly as can be determined by the photographs, all well defined detail is located with a possible error of not more than 4 meters; less well defined detail with an error of not more than 10 meters.

~~The area of detail is complete in every detail.~~
~~As nearly as can be determined by the photographs, all well defined detail is located with a possible 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
107 (789)	1	112	12/16/33	12:45 PM	-1.0 ft. (L.W.)
127 (789)		131	12/17/33	10:45 AM	6/9
86 (789)		90	11/21/33	11:45 AM	4/6

W.C. Oliver

W. C. Oliver,
Draftsman

Approved: *S. B. Grenell*
S. B. Grenell

GEOGRAPHIC NAMES

Survey No. T-5227

Chart No. 1242-447

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 T-5227.

Scale 1:10,000.

The entire area of Jekyll Island has been replotted in this office on T-5227. See Descriptive Report T-5224 for a description of this replot.

Comparison with Graphic Control Survey T-6184 (1934) 1:10,000.

Jekyll Creek Jetty was not shown on the compilation as received from the field and has been added in this office. The jetty is submerged.

The range lights at Jekyll Creek Jetty are correct as shown and are not located on the Jetty as would seem natural.

In addition to the three range lights at Jekyll Creek Jetty this Jetty is marked by three Beacons (Day Marks). Positions for these Beacons are given on H-5685. One of these Beacons replaces triangulation station Jekyll Creek Beacon 1933 and the triangulation has been removed from this compilation.

Temporary station PIL on T-6184 is a pile which shows on the photographs and has been added to the compilation, latitude $31^{\circ}03.5'$, longitude $81^{\circ}25.4'$.

All detail shown on T-6184 appears on this compilation except for temporary topographic stations, magnetic meridians, and azimuths of the following channel ranges.

(a) Jekyll Creek Range 3. Azimuth marked on plane table sheet as $352^{\circ}14'$ from north. Scaled in this office with metal protractor as $352^{\circ}05'$.

(b) Jekyll Creek Range 1. Azimuth marked on plane table sheet as $00^{\circ}37'$ from north. Scaled in the office as $00^{\circ}38'$.

(c) Jekyll Creek Range 2. Azimuth marked on plane table sheet as $155^{\circ}58'$ from north. Scaled in the office as $155^{\circ}58'$. No evidence of points on extension of the range having been established to determine the azimuths.

Scaled by D. H. Benson: checked by V. R. Sobieralski.

Comparison with Graphic Control Survey T-6172 (April 1934) 1:10,000.

All detail shown on the plane table sheet (T-6172) within the area of the compilation is shown on the compilation except for temporary topographic signals, the magnetic meridian, Jekyll Creek Jetty Beacon 1932, since destroyed, and the azimuths of three ranges as follows:

(a) Cedar Hammock Range, marked on plane table sheet as $255^{\circ}16'$ from north. Scaled in the office with metal protractor as $255^{\circ}16'$.

There is no evidence of a point on range having been established to measure this azimuth.

(b) Jekyll Island Range, marked on the plane table sheet as $217^{\circ}07'$ from north. Scaled in the office as $217^{\circ}08'$. A point on the range was established for measuring this range.

(c) Jekyll Creek Jetty Range, marked on the plane table sheet as $182^{\circ}35'$ from north. Scaled in the office as $182^{\circ}38'$. No point on range evident.

Scaled by D. H. Benson; checked by R. M. Berry.

D. H. Benson

R. M. Berry

Comparison with Graphic Control Survey T-6183 (1934) 1:10,000.

The projection on T-6183 is in error at various places from two to six meters.

Several plane table stations on T-6183 fall outside of the low water line. These stations are not described and do not show on the photographs. They fall in shallow water and are probably temporary stations used for control ~~and~~ the hydrography.

All detail on T-6183 within the area of the compilation appears on the compilation except for temporary topographic stations and the magnetic meridian.

Comparison with Graphic Control Survey T-6185 (1934) 1:10,000.

The solid line on T-6185 represents the outer line for low grass which is covered at high water. This line is shown on the compilation as a dotted line. All detail on T-6185 within the area of the compilation is shown on the compilation except for temporary topographic signals and the magnetic meridian.

Comparison with Hydrographic Surveys H-5685, H-5683⁶, H-5579 (1934). 1:10,000.

Examination of these hydrographic surveys show no discrepancies with the compilation except ~~at~~ ^{by} ~~SAF~~, lat. $31^{\circ}03.5'$ long. $81^{\circ}28.2'$, is plotted 10 meters out of position on H-5685.

Comparison with Previous Surveys.

(a) ~~T-750 (1935)~~ T-750 1:10,000. The largest changes have occurred along the outer coast of Jekyll Island and in the ~~most~~ ^{more} exposed ~~range~~ areas, particularly at the entrance to Jekyll Creek. The compilation is complete and adequate to supersede T-750.

(b) T-778 (1856) 1:10,000. The general shape of the topographic features is about the same. The larger changes have occurred in the most exposed ~~range~~ areas. The compilation is complete and adequate to supersede T-778.

(c) T-1145 (1867) 1:20,000. There have been numerous changes in the small ~~range~~ islands and points, particularly in Cobb Creek and Jointer Creek. The compilation is complete and adequate to supersede T-1145.

(d) T-4118 (1924) 1:20,000. The part of the Atlantic shoreline of Jekyll Island shown on T-4118 has eroded back about 40 meters since 1924.

The southern jetty in Jekyll Creek shown on T-4118 does not appear on the compilation. Examination of the photographs indicates that the jetty is covered with mud or sand building up along each side.

The northern jetty on Jekyll Creek shown by a solid line on T-4118 is indistinct on the photographs. It is reported to be submerged by one foot of water, and is shown by a single dashed line on the compilation.

A pier at lat. $31^{\circ}05.9'$, long. $81^{\circ}28.4'$ on Cedar Hammock shown on T-4118 is not shown on the compilation and cannot be picked up from the photographs, probably having been destroyed.

The compilation is complete and adequate to supersede T-4118.

(e) T-4106 (1924) 1:20,000. There has been some change in the Atlantic Shoreline of Jekyll Island, although the water line has not receded as far at this point as it ~~was~~ farther north on the Island.

A note on T-4106 refers to B. P. 19722 for roads on Jekyll Island. A comparison between the blue print and the compilation shows that most of the roads are on the compilation, although there are differences in the locations of some of them. Blue Print 19722 is apparently only a prospectus map issued by owners or managers of Jekyll Island.

The compilation is complete and adequate to supersede T-4106.

Comparison with Charts 1242, 447, and 3257.

Lists of landmarks for the area of this compilation are included in the reports accompanying T-6183 and T-6184. New positions for three beacons marking Jekyll Creek Jetty ^(and not shown on this compilation) are shown on H-5685. New positions for Brunswick Point cut range lights not shown on this compilation are shown on H-5685.

Remarks.

The compilation projection has been checked and no error greater

than two meters noted.

No field inspection was made for the high water line along the outer coast. An examination of the photographs indicates that the lines shown on the compilation are nearer to the storm water line and that mean high water line may be 5 to 10 meters further off-shore. The compilation has not been changed as the exact mean high water line cannot be determined without field inspection.

6/7/35.

Approved
K.T. Adams

✓
B.G. Jones

REVIEW OF AIR PHOTO COMPILATION NO.

Chief of Party: S.B. GRENELL

Compiled by: W.C. Oliver

Project: F.P. 4, Ga. Party #18

Instructions dated: 11/10/33

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) ✓
No supplemental surveys used
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 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 J.A. Bond and H.A. Paton 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 J.A. Bond and H.A. Paton, 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)
(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 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;

Dec. 10, 1934

S. B. Ginnell
Chief of Party

19. Remarks after review in office:

Reviewed in office by: *D. H. Benson* - *B. J. Jones*

Examined and approved:

K. T. Adams
Asst. Chief, Section of Field Records
L. O. Solbut
Chief, Division of Charts

F. S. Borden
Chief, Section of Field Work
Glunde
Chief, Division of Hydrography
and Topography.

Applied to Chart 840 Nov, 1935 W.A. Bruder

applied to chart 447
2/28-36 J.H.S.

Applied to Chart 841 March 18, 1936 W.A. Bruder