DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Georgia

DESCRIPTIVE REPORT
Topographic Sheet No. 5224
Hydrographic

LOCALITY

ATLANTIC COAST
St. Simon Sound

193 h

CHIEF OF PARTY
D. B. Grenell
Applied to Court 1242, Mar. 16, 1939  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. 5224 .......................... 5224

State. .................................................. Georgia

General locality. .................. EAST COAST OF GEORGIA, ATLANTIC COAST

Locality. ................................................. St. Simon Sound

Scale. .............................................. 1:10,000
Date of photographs: 11-21-33; 12-18-33.

Vessel .............................................. Aerial photo compilation party 1/18

Reviewed and recommended for approval: ...............................................

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

Photographs plotted by: ................................................................. F. B. Hickman

Surveyed by ........................................ J. W. Griffith, Jr.

Inked by .............................................

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-214 to 217;
(789) M-82 to 85; also (789) M-132.
--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 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. 524

PHOTO No. (789) M-211 to PHOTO No. 217
(789) M-82 also, (789) M-132

BY

ROUGH RADIAL PLOT

SCALE FACTOR ( )

SCALE FACTOR CHECKED S. B. Grenew	

PROJECTION A. A. Putsal	3-19-34 3-19-34

PROJECTION CHECKED F. B. Hickman	4-23-34 4-23-34

CONTROL PLOTTED F. B. Hickman	5-23-34 5-23-34

CONTROL CHECKED Warren Fitch	4-23-34 4-23-34

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED

SMOOTH RADIAL LINE PLOT F. B. Hickman	5-3-34 5-10-34

RADIAL LINE PLOT CHECKED S. B. Grenew

DETAIL INKED J. W. Griffith, 5-12-34 5-25-34

AREA DETAIL INKED 5.9 Square Statute Miles

LENGTH OF SHORE LINE OVER 200m. 10.2 Statute Miles

LENGTH OF SHORE LINE UNDER 200m. 13.3 Statute Miles

GENERAL LOCATION Coast of Georgia

LOCATION St. Simon Sound

DATUM STATION St. Simon Island L.H., 1932 LATITUDE 31° 08' 01.989 (61.31') (ADJUSTED)

DATUM N. A. 1927 LONGITUDE 81° 23' 37.555 (99.79')
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:

This sheet was made as a "fill-in" between regulation size sheets of the single lens system. It covers St. Simon Sound entrance and the mouth of the Brunswick River.

The marsh areas in this section are bordered in places by narrow bands of mud flats supporting a sparse marshy growth. The berm of the solid marsh area is well defined by a wall of dense grass in which considerable drift has become entangled and which shows as a definite line on the photographs. This line has been shown as the true high water line with a secondary dashed line outside to indicate the edge of the mud and grass border.

The outer coast of the north tip of Jekyll Island has been badly eroded by heavy storms and the true high water line is at the foot of a low bluff. The beach is characterised by a secondary beach or bar about 50 meters outside of the H. W. L. which bares at low water and leaves a shallow pool behind.

The outer coast of the south end of St. Simon Island east of the Light House is also eroding rapidly as indicated by the abandoned roads. In the past ten years a great many houses have been undermined and destroyed in this section.

CONTROL:

This sheet was controlled entirely by triangulation. The control came principally from the revision scheme of C. H. Durgin, 1938-33 and first order intersection stations of C. P. Meaney, 1932.

LANDMARKS FOR CHARTS:

Landmarks have been submitted by H. A. Paton and J. A. Bond, on form 567, 1931.

COAST PILOT NOTES:

Coast Pilot Notes have been submitted by H. A. Paton and J. A. Bond, 1934.

NOTES:

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

Respectfully submitted,

[Signature]
Chief of Party
REPORT OF COMPIILATION:

COMPILATION METHOD:

This sheet was compiled by the standard radial line plot method. The control on this sheet was easy to hold and consequently the plot ran through with no difficulty at all.

ADJUSTMENT OF PHOTOGRAPHS:

Very little trouble was experienced in adjusting photographs through this sheet. The radial points were well fixed and the photographs contained the minimum of tilt.

INTERPRETATION:

The photographs were unusually clear causing no great difficulty in interpretation of the detail. The stereoscope was used to pick up as accurately as possible the detail having elevation or was partly obscured by trees.

INFORMATION FROM OTHER SOURCES:

The photographs and field sketches were the only sources of information used on this sheet.

COMPARISON WITH OTHER SURVEYS:

Junctions with adjoining sheets compiled in this office are complete and satisfactory.

ACCURACY AND COMPLETENESS:

The area covered on this sheet is complete in every detail. As nearly as can be determined from the photographs; all well defined detail is located with a possible error of not more than 1 meter; less well defined detail with an error of not more than 10 meters.

PHOTOGRAPHS:

<table>
<thead>
<tr>
<th>No.</th>
<th>to</th>
<th>Date</th>
<th>Time</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>(789)</td>
<td>214</td>
<td>217</td>
<td>12-13-35</td>
<td>11:00A</td>
</tr>
<tr>
<td>(798)</td>
<td>62</td>
<td>85</td>
<td>11-21-33</td>
<td>11:45A</td>
</tr>
</tbody>
</table>

Also, (789) H-132

J. W. Griffith, Jr.
Draftsman

Approved:

S. B. Grenell
Chief of Party
REVIEW OF AIR PHOTO COMPILATION NO. 5224

Chief of Party: S. B. GRENELL

Compiled by: J.W. Gaith, 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 54)

2. Change in position, or non-existence of wharves, 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) No supplemental surveys

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. 35, 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 H.A. Pikon & J.R. Band, 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 H.A. Pikon & J.R. Band 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)

   No bridges

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:

19. Examined and approved; Dec. 13, 1934

[Signature]
Chief of Party

19. Remarks after review in office:

See following pages.

Reviewed in office by:

[Signature]

Examined and approved:

[Signature]
Chief, Section of Field Records

[Signature]
Chief, Division of Charts

[Signature]
Chief, Section of Field Work

[Signature]
Chief, Division of Hydrography and Topography.
REVIEW OF AIR PHOTO COMPOSITION T-5524.

Replot of Jekyll Island.

(a) The graphic control surveys in this area were not available when the photo plot was made and were not used for control. Comparison with the graphic control surveys in this office show errors in the compilation and the entire area of Jekyll Island has been re-plotted.

The replot of Jekyll Island includes, in addition to the sections shown on this compilation, the entire eastern half of compilation T-5527 and the northeastern section of compilation T-5528.

The differences between the compilation as re-plotted and the original plot amount to 15 to 20 meters.

The error in the original plot was apparently caused by a small error in the identification of triangle K, 1933, latitude 31° 03.2', longitude 81° 24.5', and to lack of control on which to close the photo plot at the north end of Jekyll Island. No triangulation stations and 6 recoverable plane table stations which had not been used by the field party were added to the compilation in this office and used for control of the new plot.

Comparison with graphic control surveys 1934 (1:10,000).

(a) T-6172.

Several temporary plane table stations on T-6172 fall outside of low water line and are not described. These stations do not appear on the photographs. A note on H-5579 states that temporary station CAP at latitude 31° 06.6', longitude 81° 27.4' is located on a pile of rocks and gravel. These rocks do not show on the photographs and are not shown on this compilation.

(b) T6161b.

Comparison with T-6161b shows the omission of the following detail which has been added to the compilation from the photographs at the south end of St. Simon Island; buildings, and a sand bar.
(c) **T-6171.**

No discrepancies.

(d) All detail on the above listed graphic control surveys within the area of this compilation is now shown on the compilation except for temporary plane table stations, the magnetic meridians and azimuths of ranges listed as follows:

<table>
<thead>
<tr>
<th>Range</th>
<th>Azimuth lettered on graphic control survey</th>
<th>Azimuth scaled in office as measured from north looking from front to rear range</th>
<th>Graphic control number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cedar Hammock Range</td>
<td>225° 16'</td>
<td>225° 21'</td>
<td>T-6172</td>
</tr>
<tr>
<td>Jekyll Isl. Range</td>
<td>217° 07'</td>
<td>217° 11'</td>
<td>&quot;</td>
</tr>
<tr>
<td>Jekyll Creek Jetty Range</td>
<td>182° 35'</td>
<td>182° 45'</td>
<td>&quot;</td>
</tr>
<tr>
<td>St. Simon Range</td>
<td>123° 17'</td>
<td>123° 41'</td>
<td>T-6171</td>
</tr>
<tr>
<td>Bantation Creek Range</td>
<td>285° 03'</td>
<td>284° 53'</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

No evidence on the plane table surveys that the azimuths of these ranges were determined by location of a point on the extension of the range.

Scaled in the office by Douglas H. Benson and checked by Donald A. McTavish.

Recoverable stations shown on the graphic control surveys have been transferred to this compilation by Douglas Benson and checked by Donald A. McTavish. and descriptions are filed under T-6171, T-6161b, and T-6172.

Comparison with contemporary hydrographic surveys.

(a) **H-5590.**

No discrepancies noted.

(b) **H-5579.**

A pencil note on H-5579 states that a telephone line crosses the mouth of Parson Creek. This line does not show on the photographs which are indistinct in this area.
(c) H-5685.

Shore line on H-5685 was transferred from the original compilation for the area in the vicinity of Jekyll Island. This section of the compilation has been replotted as stated in preceding paragraphs. This fact has been called to the attention of Field Records Section.

Comparison with Previous Surveys.

(a) Comparison with T-4118 (1924).

This sheet is on a 1:20,000 scale. Comparing shore line by means of proportional dividers shows that the high-water line around the Atlantic side of Jekyll Island has receded approximately 40 meters, but that there has been little change elsewhere.

The sheet shows positions of the telephone line following along the shore line of Brunswick Point to a point opposite the tip of Jekyll Island where it crosses over to the island by means of a submerged cable just south of the mouth of Clam Creek. This is the same line mentioned on H-5579.

This sheet does not show roads on Jekyll Island, but refers to Blue Print 19722 as showing the roads. Many of the roads are only bridle paths, portions of which appear through the trees on the photographs but which could not be delineated in their entire length.

The compilation is complete and of sufficient accuracy to supersede T-4118 except for the telephone line noted above.

Comparison with Charts 1242, 447 and 3257.

Two lights are shown on the charts which are not on the compilation or plane table sheets having been placed since the date of the survey. These lights are (1) Brunswick Point Lighted Buoy '20'; (2) Brunswick Point Cut Range Front Beacon.

Remarks.

All recoverable stations on the graphic control surveys in this area have been transferred to the compilation by James H. Benson and checked by Leon A. Neuman and descriptions are filed as listed below:
Review of Air Photo Compilation T-5224 - page 4.

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLJ</td>
<td>T-6172</td>
</tr>
<tr>
<td>VEX</td>
<td>T-6171</td>
</tr>
</tbody>
</table>

The projection on the compilation was checked in this office and is correct.

Douglas H. Benson

Approved
K.T. Adams

Applied to chart 447
3/28-36 3.H.S.
<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Clubbs Creek</td>
<td>Same</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Plantation Creek</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parsons Creek</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>St. Simon Island</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>St. Simon Sound</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jekyll Island</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clam Creek</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dabignons Creek</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brunswick Point</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brunswick River</td>
<td>Brunswick River on Chart 142</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Turtle River on Chart 147</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

St. Simon, St. Simons Island, Official Name of P.O. (also RAND McNALLY)

Approved by the Division of Geographic Names, Department of Interior.

R, Not Approved by the Division of Geographic Names, Department of Interior.

Referred to the Division of Geographic Names, Department of Interior.

Survey No. 5-224
Chart No. 1242 - 447
Diagram No. ____________________

Approved Names
Underlined in Red
H. L. Flower

H.B. Apr. 19, 1936

April 24, 1935
Check List for Air Photo Compilation

1. Sheet Indexed.

2. Datum Note correct and verified adjusted or unadjusted degrees and minutes correctly marked on projection.

3. Note in review as to whether projection was checked and results.

4. Check geographic names against standards and make name list.

5. Lights and Beacons checked against local light lists and corrections and omissions noted in notes. Consult AID standards, T.O. 110-241, for reference in case of doubt as to when the aids were built.

6. Descriptions on map 524 checked against compilation and corrected where necessary. Corrections noted in the review and those references made where filling and changes in the title by sheet numbers made in the revision.

7. Comparison with other surveys:
   a. Chainage
   b. Coordinates, areas, etc., in landmarks and other important detail.
   c. Old surveys.
   d. New surveys, air surveys.
   e. Hand Table, central surveys.
   f. Plan Table, central surveys. All detail on the plane table re-central surveys is checked on the reproduction sheet as noted in the review. Differences are discussed.

8. Plane table, central surveys reviewed in conjunction with the compilation noted. All reference data made at back of the plane table report. Copy of the compilation review attached at back of the plane table report if necessary. Notes made directly on the plane table sheet where needed.

10. Quality of the plane table work.
11. Differences.
   a. U.S.E. Stations and grids.
   b. Landmarks and hills.
1. Title: NOT 524 marked.

2. Stations classified on Form 524 marked (d).

3. Note dates and initials of notes made on plane-table surveys.

4. Differences or notes of importance called to attention of cartographic field records, or least plane-sections.

5. Junctions noted on side of this form and checked.

6. Final check.

11. Overlay complete:

   a. Limits of area with enlargements or reductions.

   b. Paste numbers and flight lines.

   c. Title notes.

12. Revise completed:

   a. Accuracy of location.

   b. Field data.

   c. Initials.

13. File Field data on Form 524.

14. Location of location of these lines on cadastral charts.

15. Any additional data to report - location of reporting place for future reference.