DESCRIPTIVE REPORT

Topographic

Hydrographic

State: Georgia

LOCALITY

Sapelo Sound
Georgia East Coast

South Newport River
St. Catherine Sound

1935

CHIEF OF PARTY

S. B. Grennell
applied to new compilation drawing chart 574 Oct 9, 1936 - JF

applied to chart 573 Nov 21, 1936 G H 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. 5117

State: Georgia
General locality: Sapelo Sound
Locality: South Newport River, St. Catherine Sound
Scale: 1:20,000 
Date of photos: 9-20-33

Vessel: Air Photo Compilation Party No. 18
Reviewed and recommended for approval:
Chief of party: Lieut. (j.g.) E. B. Grubbs 
Photographs plotted by: F. B. Hieckman

Inked by: A. M. Grubbs

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.: M-66, 51 to 65;
and L2 to L4
--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. 5117

PHOTO No. M-66 33 to PHOTO No. 66

BY D. B. Gaines

ROUGH RADIAL PLOT D. B. Gaines 12-1-33 12-6-33

SCALE FACTOR (.915) J. C. Harmon 12-5-33 12-6-33

SCALE FACTOR CHECKED E. M. Noon 11-30-33 11-30-33

PROJECTION J. C. Partington 12-6-33

PROJECTION CHECKED J. C. Harmon 12-7-33 12-7-33

CONTROL PLOTTED F. B. Hickman 12-8-33 12-9-33

CONTROL CHECKED A. A. Futral 12-9-33 12-11-33

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED

SMOOTH RADIAL LINE PLOT F. B. Hickman 12-11-33 12-18-33

RADIAL LINE PLOT CHECKED S. B. Grenei

DETAIL INKED A. M. Gruber 12-18-33 2-3-34

AREA DETAIL INKED 88.6 Square Statute Miles

LENGTH OF SHORE LINE OVER 200m. 136.9 Statute Miles

LENGTH OF SHORE LINE UNDER 200m. 153.2 Statute Miles

GENERAL LOCATION Sapelo Sound

LOCATION South Newport River

Datum Station Clapp, 1932 Latitude 31°38'-27.227' (838.6M)

Datum N. A. 1927 Longitude 81°15'-19.132' (504.1M)
INSPECTION REPORT
for
COMPILATION No. 5117
Scale: 1:20,000

REFERENCE:

In reviewing this sheet in the Washington office reference should be
made to the General Report for 5-Lens Compilations forwarded with
compilation No. 5114.

SHEET LAYOUT:

When the writer took over the compilation party in December, 1933,
from C. H. Reese, the radial plots had been run and tracing begun on
divide compilations, Nos. 5113-15-17-20-23. About the time these first
compilations were nearing completion a shipment of single lens photos
of the Inside Route was received with instructions to give this section
preference in compiling. Consequently work on these 5-lens sheets was
dropped until the single lens compilations were completed.

The single lens compilations cover a narrow strip paralleling the
east and passing through the five compilations mentioned above. This
constituted a duplication of a portion of the area on each 5-lens com-
pletion which has been blocked out in red on the attached overlay.

A careful comparison was made of the area duplicated and it was
found that the 5-lens sheets were far less complete in detail, due
principally to the fact that the 5-lens photographs were not very clear.
Also these compilations were the first attempted on this party and the
draftsmen unskilled in tracing minute detail. Also the ink was of
inferior quality and the celluloid had a high shrinkage factor, all of
which tended to lower the grade of the work.

Compilations 5113 and 5123 were so far below the standard of work
that we are now turning out that it was decided to scrap the old com-
plilations. Each of these two sheets was re-compiled showing only the
area not covered by single lens.

Compilations 5115-17-20 have been worked over and checked against
the photostat reductions of the single lens compilations and are being for-
warded as originally compiled. It is realized that the compilations are
are not up to present standards as to fineness of drafting but it is
believed that they are accurate as to detail shown.

The ink is badly faded in spots and the projections are distorted
considerably. The former is due to the original ink used which was
poor in quality, and the latter to the poor grade of celluloid received
in the first shipment. If these three compilations (5115-17-20) are
too badly faded to reproduce they can be re-compiled by returning the
original compilations with photographs and prints of adjoining compil-
ations to this office.

CONTROL:

The radial plot of this triangulation was controlled entirely by
triangulation from the following sources: First order are by H. C.
Warwick - C. D. Meany, 1932 and coordinating scheme of C. M. Durig,
1932. In 1934 Lieut. C. A. Egner established additional control in the
Timmons, Newport and Julieton Rivers but this triangulation was established after the sheet was compiled and was not used to hold the plot. Later the control was plotted on the compilation as a check and everything was found to be in agreement.

COMPARISON WITH CONTEMPORARY SURVEYS:

The compilation of shoreline has been carefully checked against the smooth hydrographic sheets of C. A. Egner and against such rodded as was transferred to these smooth sheets from the aluminum control sheets of the area. Part of this section was done by H. P. Odenssey on the "GILBERT" and the sheets were not available to this office.

LANDMARKS AND COAST PILOT NOTES:

The above have been submitted by C. A. Egner & H. P. Odenssey, 1934.

NAMES ON OVERLAY SHEET:

All names appearing on the overlay sheet were taken from current issues of charts and U. S. Army Tactical Maps. Part of the names were printed on celluloid and glued to the compilation but these have mostly come off in handling.

Respectfully submitted,

[Signature]

C. B. Grenell
REPORT OF COMPILATION:

COMPILATION METHOD:

This sheet was compiled by the radial line plot method. No difficulty was experienced in the adjustment of the plot with the control available on this sheet.

ADJUSTMENT OF PHOTOGRAPHS:

No particular difficulty was experienced in adjustment of photos when tracing detail because radial points were well spaced and tilt was not excessive.

INTERPRETATION:

With the exception of the H. W. delination around station CEDAR HAMMOCK 2 and the mouth of Barbour Island River, no difficulty was experienced in interpreting photos. The H. W. line is practically impossible to locate exactly whether by photo or field inspection because of wave action and ranges of tide in Sapelo Sound. Standard topographical symbols were used throughout this compilation.

INFORMATION FROM OTHER SOURCES:

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

COMPARISON WITH OTHER SURVEYS:

Junctions with adjoining sheets compiled in this office are complete and satisfactory. The junctions made with the single lens compilations were accomplished with the aid of photostat copies of the 1:10,000 sheets which were reduced to 1:20,000 scale. There are no details appearing on charts that should be removed. This compilation has been checked with current charts of the U. S. C. & G. Survey.

ACCURACY AND COMPLETEENESS:

As nearly as can be determined from the photographs and with the exception noted in paragraph headed INTERPRETATION this sheet is complete in detail. All well defined detail is located within a probable error of not more than 4 meters; less well defined detail with an error of not more than 10 meters.

PHOTOGRAPHS:

<table>
<thead>
<tr>
<th>No.</th>
<th>to No.</th>
<th>Date</th>
<th>Time</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-66</td>
<td>51</td>
<td>65</td>
<td>9-20-33</td>
<td>10:45 AM</td>
</tr>
<tr>
<td>M-66</td>
<td>42</td>
<td>44</td>
<td>9-20-33</td>
<td>10:15 AM</td>
</tr>
</tbody>
</table>

Approved:

A. M. Gruber, Surveyor

S. B. Grenell
Review of Air Photo Compilation T-5117
(1:20,000)

1. Comparison with Graphic Control Surveys

   (a) T-6151a, T-6157b, T-6158b, and T-6160a, 1934 (1:10,000). Slight discrepancies in shore line in the above plane table surveys and the air photo compilation have been corrected and they are now in agreement.

   (b) T-6158a, T-6194a, and T-6194b, 1934 (1:10,000). There are large differences between sections of shore line on the above G.C.S. and this compilation amount to from 3 to 30 meters. Each difference has been examined carefully by comparison with the photos and also a check of the photo plot. A few minor changes have been made on the compilation which is accepted as correct. The remaining differences are due to inaccurate sketching between rod readings and to differences in interpretation.

   (c) All information and detail shown in the above listed graphic control surveys within the area of this compilation is now shown on the compilation except the temporary topographic signals and magnetic meridians.

2. Comparison with Recent Hydrographic Surveys

   (a) H-5552, H-5580, H-5582, H-5583, H-5585, H-5586, 1934 (1:10,000). A small island at Latitude 31° 32.9', Longitude 81° 19.1' has been added to the compilation which is not shown on H-5580 covering this area. This has been referred to the reviewing section and has now been added to the hydrographic survey. Several small shoreline corrections have been made on the compilation but these do not affect the soundings. The hydrographic surveys listed above are now in agreement with the compilation.

3. Comparison with Former Surveys

   (a) T-721, 1858 (1:20,000); T-1060, 1867 (1:20,000); T-1155, 1869, (1:20,000); T-4121, 1925 (1:20,000) and T-4123, 1925 (1:20,000). The portions of the above surveys that cover this area show no important changes. The compilation is complete and adequate to supersede the portions of the above mentioned surveys which it covers.

4. Recoverable Stations

   The recoverable C stations which are shown on the graphic control surveys T-6151a and T-6158a and are covered by the compilation have been added to the compilation in this office. Recoverable stations on the remaining graphic control were transferred to the compilation by the field party. In addition the Δ stations listed below have been added to the compilation in this office:
5. Remarks

(a) The accuracy of 4 to 10 meters given on page 3 of the preceding report is high for work on this scale. A better estimate would be 6 to 10 meters for intersected points and 6 to 20 meters for other detail.

(b) The junctions between this compilation and the adjoining compilations had not been carefully made and have been revised in this office.

(c) The projection diagonals have been checked in this office and found correct. No further check was made during this review.

6. Comparison with Charts 1241 and 573

No aids to navigation or landmarks are shown on that part of the present charts covered by this compilation and no new landmarks have been recommended by the Graphic Control Survey or this compilation.

---

Note: Referring to par. 3, page 1, desc. report T5177, the blank area through the center of this compilation has been filled in by reducing and applying the 1:10,000 scale compilations Nos. T5217, T5215, and T5219. This will necessitate redrawing this compilation as a blue line print before publication. This has been done because of the in completeness of the compilation as submitted from the field. The three 1:10,000 compilations overlapping this area are filed and will be published.}

L. C. Rands
<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>Sapelo River</td>
<td>Same on 1241 &amp; 574, also T.5219</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Sapelo Sound</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Dog Hammock</td>
<td>STE. T. SEE STANDARD, Ch. 574, DELETE</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Cedar Hammock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Fourmile Point</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Julianton River</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Fourmile Island</td>
<td>T.5219 Four Mile Island on 1241</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Brunson Creek</td>
<td>Same on 1241 &amp; 574 and T.5219</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Barbour Island River</td>
<td>Same on 1241 &amp; 574 and T.5219</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Little Mud River</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Harris Neck</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Oldnor Island</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>South Newport River</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Johnson Creek</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>St. Catherines Island</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Wahoo River</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✸</td>
<td>Wahoo Island</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Mallclark River</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Swain River</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>North Newport River</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Timmons River</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Vandyke Creek</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## GEOGRAPHIC NAMES

**Survey No.:** T-5117  
**Chart No.:**  
**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

<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>Walburg Creek</td>
<td>Same on 1241 + 573 and 5217</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Cedar Creek</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Medway River</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>St Catherine's Sound</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Walburg Island</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>McQueen Inlet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Sunbury Creek</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Ashley Creek</td>
<td>U.S. E. St Catherine's Island (Quad)</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Broro River</td>
<td>Same on 1241 + 574</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Moss Island</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>DEAD CREEK</td>
<td>U.S. E. St Catherine's Island Quad 71SS</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Cedar Point</td>
<td>T841</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Barbour Island</td>
<td>Same on 1241 + 574 + 5219</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Add</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>High Point</td>
<td>Chart 574</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Sutherland Bluff</td>
<td>Sapelo R Quad</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Todd River</td>
<td>G.N. Standard 574</td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Colonels Island</td>
<td>Sapelo R Quad</td>
<td>✔️</td>
<td></td>
<td></td>
</tr>
<tr>
<td>✔️</td>
<td>Sapelo Island</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Names approved 10/31/35

K.T.A.
REVIEW OF AIR PHOTO COMPILATION NO. 5117

Chief of Party: S. B. Grenell

Compiled by: A. M. Gruber

Project: F.P.H., 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. 18a, 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 naviga-
   tion 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) None

4. Blue-prints and maps from other sources which were transmitted
   by the field party contain sufficient control for their applica-
   tion 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 ade-
   quate for chart compilation. (Par. 18a, 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 Compila-
tion 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 by H.R. Odley and C.E. Bryant, 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. 12d, e; and 60)

Form 567 by H.P.O. and C.P.E. 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)

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. 54, and 56k)

13. The geographic datum of the compilation is N.A. 1927 and the
reference station is correctly noted. (adjusted)

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; April 12, 1935.

19. Remarks after review in office:

Reviewed in office by: L. C. Landa B. G. Jones

Examined and approved:

C. K. Green
Chief, Section of Field Records

Chief, Division of Charts

R. D. Brod
Chief, Section of Field Work

Chief, Division of Hydrography and Topography.