DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: Georgia

DESCRIPTIVE REPORT
Topographic Sheet No. 5230
Hydrographic

LOCALITY

CUMBERLAND RIVER
Stullie River to Paluoshin Creek

193 3

CHIEF OF PARTY
S. B. Grenell
applied to chart 448 (then chart 841) July 1937

applied to chart 1242, Mar. 10, 1939 Q.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. 5230  

State  
Georgi a  

General locality  
Coast of Georgia  

Locality  
CUMBERLAND RIVER  
Sabina River to Balsachra Creek  

Date of photographs: 11-24-33  
Scale: 19  

Vessel: Air Photo Compilation Party #18  
Reviewed and recommended for approval:  
Chief of party: Lieut. (j.g.) S. B. Grenell  
Photographs plotted by: F. B. Higman  

Inked by: C. E. Halfrich  

Heights in feet above:  
to ground  to tops of trees  

Contour, Approximate contour, Form line interval:  

Instructions dated: November 10, 1933  

Remarks: Compilation of aerial photos Nos; (790) M-2 to M-10  
(790) M-37 to 70  

...
REFERENCE:

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

GENERAL INFORMATION:

This sheet covers the Inside Route and adjoining streams from the Satilla River to Cumberland Dividings. The greater part of the sheet is covered with the usual type of salt marsh found in this region. The streams are well defined and the marsh line definite and clean cut.

In the vicinity of FLOYD BASIN the deeper channels through the flooded areas showed up on the photographs in excellent detail. Where the banks of such channels were clean cut they were indicated by a fine dotted line. A later check against the smooth hydrographic sheet indicated that these dotted lines gave a better indication of the low water line than could be obtained from the depth curves of the hydrographic sheet.

The wooded areas are covered with the usual mixed growth of oak and pine with a small percentage of deciduous brush and a few scattering palms along the waterways.

CONTROL:

This sheet was controlled entirely by triangulation. The control came from the revision survey of C. H. Durgin, 1932-33 and consisted mainly of lighted beacons or wooded stands in the water. When the pictures are clear these stands can be seen and furnish accurate control for the radial plot.

LANDMARKS FOR CHARTS:

A list of landmarks has been submitted on form 567 by H. A. Paton, 1934.

COAST PILOT NOTES:

Coast pilot notes have been submitted by H. A. Paton, 1934.

 NAMES:

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

Respectfully submitted,

S. B. Grenell
Chief of Party
--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.** 5230

<table>
<thead>
<tr>
<th>PHOTO NO.</th>
<th>M-57 to M-70</th>
<th>M-49</th>
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**By**

<table>
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<td>Radial Line Plot Checked S. B. Grenell</td>
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<tr>
<td>Detail Inked C. E. Helfrich</td>
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</tbody>
</table>

Area Detail Inked 19.6 Square Statute Miles

Length of shore line over 200m. 22.5 Statute Miles

Length of shore line under 200m. 77.9 Statute Miles

General Location: Coast Of Georgia

Location: Satilla River to Dunbar's Grant

Beacon 1932

Datum Station (Airway Bn. #7) 1932

Latitude 30° 56' - 10 17.275" 322.6M

Datum H. A. 1927

Longitude 81° 30' - 27 19.5' 721.9M
REPORT OF COMPILATION:

COMPILATION METHOD:

The radial plot method was used in compiling this sheet.

ADJUSTMENT OF PHOTOGRAPHS:

This sheet has only one flight and just catches the centers of second flights in the overlap with sheet #5229. The flight 790 M-57 to 70 is very well fixed and worked through smoothly, but the flight 790 M-2 to 9 did not work so well. There was practically no control and photograph #6 is badly tilted as well as out of the line of the flight.

The scale of the two flights seem to differ somewhat. On flight 790 M-57 to 70 the radial points consistently fall long and on 790 M-2 to 9 they fall short.

Quite a bit of adjusting between points was necessary.

INTERPRETATION:

The photographs were reasonably clear and the photographic detail was interpreted without difficulty.

INFORMATION FROM OTHER SOURCES:

The only information available was from the photographs.

COMPARISON WITH OTHER SURVEYS:

All junctions with adjoining sheets are accurate and satisfactory.

ACCURACY AND COMPLETENESS:

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

All well defined detail is located with a probably error of not more than 4 meters; less well defined detail with an error of not more than 10 meters.

PHOTOGRAPHS:

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<th>No.</th>
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C. E. Helfrich, Draftsman

Approved:

S. B. Grenell, Chief of Party
Control

Four triangulation stations were plotted incorrectly on this compilation as received from the field. These stations are at the north edge of the compilation. They have been corrected in this office and moved as listed below:

- Triangulation station House 2, 1933 - 3 meters north
- Satilla R. S. Rn., 1933 - 4 meters Nort
- " Basin, 1933 - 4 meters east
- " Carlson, 1933 - 4 meters north

The latitude error in three of these stations probably resulted from an error in applying the datum correction.

A general check of the photo plot and comparison with the plane table surveys indicates that the error in detail resulting from the incorrect plotting of these stations does not exceed approximately 5 to 15 meters, the amount of error varying over the north end of the compilation.

To correct for the error would require reploting the entire upper end of the compilation. Due to the press of work at this time and since the error is not large enough to considerably affect the 1:40,000 scale charts the compilation has not been replotted.

Comparison with Graphic Control Surveys

**T 6187b (April 1924), 1:10,000**

Covers northeast corner of the compilation. The section of high water line on T 6187b at lat. 30° 57', long. 81° 28.5' is the edge of the grass. The compilation interpretation of this detail is accepted.

**T 6187a (April 1934), 1:10,000**

Covers the northwest section of the compilation. The section of rodded shoreline near triangulation station Carlson, U.S.E. checks the compilation shoreline with only minor variations.

The other sections of rodded in shoreline shown on T 6187a check the edge of the marsh symbol shown on the compilation, although the high water line of the compilation is farther inshore along a more definite berm of the marsh.
T 6188a (June 1924), 1:10,000

Covers central section of the compilation.

The rodbed in section of the shoreline of Shellbime Creek does not check the compilation closely. The photographs confirm the compilation and it has not changed.

A house at lat. 30° 54.6', long. 81° 31.1' was added to the compilation from T 6188a.

The rodbed in shoreline of T 6188a at Cabin Bluff falls half way between the compilation low water line and high water line. The photographs were taken at 1/8 tide so that the outside line shown on the compilation is the actual low water line. The line on the plane table sheet agrees closely with the sounding lines on hydrographic survey H 5752 and as it is of later date than the photographs the compilation has been changed to agree.

Two piles on either side of the pier at lat. 30° 53.3', long. 81° 30.9' shown on T 6188a were added to the compilation after inspection of the photographs confirmed the plane table locations.

All recoverable topographic stations have been transferred from the planetable surveys to this compilation by D. H. Benson and checked by V. R. Sobiersalski. Descriptions on Form 524 are filed under T 6187 and T 6188.

All detail shown on the above surveys within the area of the compilation except for temporary topographic stations, the magnetic meridians and the following two range azimuths which are lettered on the planetable surveys:

T 6188b, Cumberland River Delarocche Creek Range, Azimuth 166°11' from north
T 6188a, Cumberland River Mud Creek Range, Azimuth 218°57' from north

Both ranges are located by triangulation and the azimuths are computed. (Desc. Report T 6188)

Comparisons with Previous Surveys

T 1145 (1867), 1:20,000

Very little change in topography has taken place in the area common to T 1145 and the compilation. At lat. 30° 57', long. 81° 31.5' the opening between the two creeks has developed considerably; otherwise there are no important changes since 1867.

The compilation is complete and adequate to supersede T 1145 except for some low bluff lines shown around some of the higher ground on T 1145.
T 1152 (1870), 1:20,000

No important natural changes in topography have taken place within the area covered by T 1152 and the compilation.

The compilation is complete and adequate to supersede T 1152 except for some low bluff lines shown on T 1152.

Comparison with Charts 1242, 448, 3257

There are two submerged cable crossing areas which are not on the present charts, one across Cumberland River at lat. 30° 52.8', long. 81° 30.8', and the other across Brickhill River at lat. 30° 52.4', long. 81° 29.8'.

All lights and beacons within this area are shown.

No landmarks other than lights and beacons are shown on the present charts in this area and none have been recommended by the graphic control surveys or this compilation.

Bensen

D. G. Jones

11/30/35
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<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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Names approved Dec. 4, 1930
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) No changes noted

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. 23) 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 H.A. Patten, 1934

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 15, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

Form 567 Submitted by H.A. Patten, 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 M.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. 13, 1934

Chief of Party

19. Remarks after review in office:

See types marked review.

Reviewed in office by:

D. H. Benson  B. G. Jones  11/30/35

Examined and approved:

C. R. Green  T. B. Borden

Chief, Section of Field Records  Chief, Section of Field Work

Chief, Division of Charts  Chief, Division of Hydrography and Topography.