

5123

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

DESCRIPTIVE REPORT

Topographic } Sheet No. 5123
~~*Hydrographic*~~

State Georgia

LOCALITY
Altamaha Sound
~~Georgia East Coast~~

St. Simon Island

1935

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1934

5123

Applied to chart 840 Dec. 1935 W.A.B.

Applied to new compilation drawing of Chart 574 - Oct. 26, 1936 - J.W.
" " " " " Cht. 575 July, 1937 R.A.C.

"
Applied to chart 1242 Mar. 11, 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. 5123

State..... Georgia

General locality..... *Altamaha Sound*
..... ~~Georgia East Coast~~

Locality..... St. Simon Island

Scale 1:20,000 photographs: 9-20-33
Date of ~~survey~~, 19....

~~Vessel~~ Air Photo Compilation Party No. 18

Reviewed and recommended for approval:

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

Photographs plotted by:

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

Inked by..... J. W. Osteen, Jr.

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 photographs Nos. M-66 1 to 19

--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. 5123

PHOTO NO. M-66 1 to PHOTO NO. 19

BY	START	FINISH
ROUGH RADIAL PLOT <u>R. D. Cross</u>	<u> </u>	<u>12-7-33</u>
SCALE FACTOR (.915) <u>R. D. Cross</u>	<u> </u>	<u>12-8-33</u>
SCALE FACTOR CHECKED <u>A. A. Futtal</u>	<u> </u>	<u>12-8-33</u>
PROJECTION <u>A. M. Gruber</u>	<u>2-14-35</u>	<u>2-14-35</u>
PROJECTION CHECKED <u>S. B. Grenell</u>	<u> </u>	<u>2-14-35</u>
CONTROL PLOTTED <u>A. M. Gruber</u>	<u>2-14-35</u>	<u>2-14-35</u>
CONTROL CHECKED <u>F. B. Hickman</u>	<u> </u>	<u> </u>
TOPOGRAPHY TRANSFERRED <u> </u>	<u> </u>	<u> </u>
TOPOGRAPHY CHECKED <u> </u>	<u> </u>	<u> </u>
SMOOTH RADIAL LINE PLOT <u>R. D. Cross</u>	<u>1-3-34</u>	<u>1-8-34</u>
RADIAL LINE PLOT CHECKED <u>S. B. Grenell</u>	<u> </u>	<u>1-8-34</u>
DETAIL INKED <u>J. W. Osteen, Jr.</u>	<u>2-15-35</u>	<u>3-21-35</u>
AREA DETAIL INKED <u>46.0</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>43.4</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>83.4</u>	Statute Miles	
GENERAL LOCATION <u>Altamaha Sound</u>	<u>Georgia East Coast</u>	
LOCATION <u>St. Simon Island</u>	<u> </u>	
DATUM STATION <u>Cooper - 1932</u>	LATITUDE <u>31°-17'-14.011" (431.5 M)</u>	
DATUM <u>N. A. 1927</u>	LONGITUDE <u>81°-19'-36.642" (969.2 M)</u> (adjusted)	

INSPECTION REPORT
for
COMPILATION No. 5123
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 5114.

GENERAL INFORMATION:

This compilation was begun in January, 1934 but work was discontinued on it after the H. W. L. was run in because the single lens flights of the Inside Route were received then and everything else was dropped to give them preference. After these single lens sheets were compiled it was found that about 2/3 of the area of the original layout of compilation 5123 was covered by single lens so the original compilation was discarded, a new projection made, the radial points transferred and the sheet recompiled. The red line along the border indicates the actual junction with the single lens compilations 5222, 5223 and 5224. The latter have been forwarded to Washington so no junction check has been actually made with the original compilation.

There are no unusual topographic features on this compilation. Standard symbols have been used throughout the area and all features are clearly shown.

CONTROL:

The radial plot was controlled entirely by triangulation of the coordinating scheme of C. M. Durgin, 1933.

COMPARISON WITH CONTEMPORARY SURVEYS:

All junctions with adjoining single lens compilations have been made through photostat reductions of the 1:10,000 sheets.

At the time the radial plot was made, there was no control in the Hampton River area. Later, Lieut. C. A. Egner ran controlled graphic triangulation through this stretch and established control points for fixed control hydrography. The compilation has been checked against the smooth hydrographic sheets and sounding lines and shore-line are in satisfactory agreement.

LANDMARKS AND COAST PILOT NOTES:

The above have been submitted by Lieut. C. A. Egner, 1934.

NAMES:

All place names on the overlay sheet were taken from current issues of charts and U. S. G. S. quadrangles.

Respectfully submitted,


S. B. Grenell

REPORT OF COMPIATION:

2

RADIAL LINE PLOT:

The original plot for this compilation was done by the Standard radial line plot method. The plot for the final compilation was made by the overlay method; transferring points from the original plot which was abandoned.

ADJUSTMENT OF PHOTOGRAPHS:

The photographs for this compilation were rather dull and obscure but without excessive tilt. Radial points were well selected and spaced.

INTERPRETATION:

Detail was obscure on several photographs because of sunspots and on others because of general dullness of the photos.

Near Lat 81° - 23' is a pond, located in a small subdivision, with a second class road around the edge.

COMPARISONS WITH CONTEMPORARY SURVEYS:

All junctions with adjoining compilations including single lens on the west, are complete and satisfactory.

COMPARISONS WITH OTHER SURVEYS:

On Lat. 31° - 12'; east of St. Simon Island is an island designated on old charts as "Isle of Palms". This is now known as "Sea Island" and should be corrected for future charts.

The majority of detail for this compilation agrees with the charted detail. There are no features to be removed from the charts.

ACCURACY AND COMPLETENESS:

This sheet is complete in every detail as nearly as can be determined from the photographs.

In well defined detail there is a probable error of not more than 4 meters; less well defined detail, a probable error of not more than 10 meters. *See Review*

PHOTOGRAPHS:

No.	to	No.	Time	Date	Stage of Tide
M-66	1	19	9:30 AM	9-20-33	7/8

Approved:

S. B. Grenell

J. W. Osteen, Jr.
Draftsman

REVIEW OF AIR PHOTO COMPILATION NO. 5123

Chief of Party: S.B. Grenell

Compiled by: J.W. Osteen, 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 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.
*Survey by C.A. Egner completed after area compiled
Shoreline checked against hydro sheets.*
- ✓ 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."

Survey No. T 5123Date. Aug 19, 1935 GEOGRAPHIC NAMESChart No. 1242-447Diagram 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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Postell Creek</u> ✓	Brunswick Chart 1242			✓
	<u>Blackbank River</u> ✓	T 1108	"		✓
	<u>St Simon Island</u> ✓	T 1114	"		✓
	<u>Mosquito Creek</u>	T 1114	"		✓
	<u>Hampton River</u> ✓	T 1114	"		✓
	<u>Village Creek</u> ✓	T 1108	"		✓
	<u>Little St. Simon Island</u> ✓	T 1114	"		✓
	<u>Wilson Creek</u>	T 1114	"		✓
	<u>Egg Island</u>	T 1114	"		✓
	<u>Little Egg Island</u>	T 1114	"		✓
	<u>Altamaha Sound</u>	T 1114	"	Ch. 574	✓
	<u>Beacon Creek</u>	T 1114	"	"	✓
	<u>Wolf Creek Island</u>	T 1114	"	"	✓
	<u>Sea Island</u> ✓	<u>Isle of Palms</u> ✓		→ 575	✓
	<u>Jones Creek</u>	T 1114	1242		✓
	<u>BEACH CREEK</u>	USG 111140 T 1114		Chart 574	✓
	<u>PINE CREEK</u>	T 1114			
	XANX	names approved Dec 12 1935			
		not approved. This is on land on soil map			
	<u>House Cr.</u>	T 1114			✓
	<u>Add</u>	→ Horse Cr. on T 5123 ✓			✓
	<u>Sea Island Beach</u>	✓ KTB	P.O. Map		✓

REVIEW OF AIR PHOTO COMPILATION T 5123

1. Comparison with Graphic Control Surveys

- (a) T 6161b, T 6164a, T 6164b, T 6197 (1934), 1:10,000

There were several differences between the rodded shoreline of the graphic control surveys and the compilation. 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 largely to interpretation and sketching.

- (b) 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 4462 (1924), 1:20,000; H 4471 (1925), 1:20,000; H 5587, H 5631, and H 5632 (1934), 1:10,000.

A small island has been added to the compilation from the photos at lat. $31^{\circ} 15.9'$, long. $81^{\circ} 19.1'$ which is not shown on H 5587 covering the area. This has been referred to the reviewing section. 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 Previous Topographic Surveys

- (a) T 1108 (1869), 1:20,000; T 1114 (1869), 1:20,000; T 4122 (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

- (a) The recoverable topographic stations which are shown on the graphic control surveys T 6161b, T 6164a, T 6164b and T 6197 and are covered by the compilation have been added to the compilation in this office. In addition the triangulation stations listed below have been added to the compilation in this office:

Son 1934
Hampton 1932
Wolf Island Lighthouse, rear range, 1901
Wolf Island Beacon 1902
Channel Range North, rear, 1901
Channel Range South, rear, 1901

Stations transferred by L. C. Lande; checked by M. D. Crook

Descriptions of the recoverable topographic stations are filed on Form 524 under the graphic control survey numbers T 6161b, T 6164a, T 6164b and T 6197.

5. Remarks

(a) The accuracy of 4 to 10 meters given on page 2 of the preceding report is high for work of this scale. A better estimate would be 0.3 to 0.5 mm. for intersected points and 0.3 to 1.0 mm. for other detail.

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

(c) Junctions with the adjoining compilations had to be revised. Field comparison had not been carefully made.

6. Bridge Data

A fixed span bridge at lat. $31^{\circ} 10.8'$, long. $81^{\circ} 21.1'$ is being taken over by the State Highway Department and the bridge may be changed in the near future.

7. Comparison with Present Charts

No aids or landmarks are shown on that part of the present chart covered by this compilation and no new landmarks have been recommended by the graphic control survey on this compilation.

Crook Lande

V.B.G. Jones 1/30/36

- ✓ 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 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 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 navigation is given in the descriptive report. (Par. 16c)
- ✓ 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. *(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 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;

April 10, 1935

S. B. Leland
Chief of Party

19. Remarks after review in office:

Reviewed in office by: *L. C. Lande* ✓ *B. G. Jones*

Examined and approved:

E. H. Green
Chief, Section of Field Records
L. O. Lobnitz
Chief, Division of Charts

F. B. Borden
Chief, Section of Field Work
G. H. Hilde
Chief, Division of Hydrography
and Topography.

Applied to chart 447. mar. 2, 1936 g.H.S.