

5115

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. 5115
~~Hydrographic~~

State Georgia

LOCALITY
Ossabaw Sound
Georgia East Coast

Ossabaw Island

1935

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1934

5115

Applied to chart 839 - Nov. 7, 1935 H.C.

Applied to chart 573 Nov. 5, 1936 J.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. 5115 1241

State. Georgia

General locality. Ossabow Sound
~~Georgia East Coast~~

Locality. Ossabaw Island

Scale. 1:20,000 Date of photographs: 6-28-33
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 B. B. Lewis

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. 692 to 712 (incl)

--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. 5115

PHOTO NO. 692 to PHOTO NO. 742 (incl)

BY	START	FINISH
ROUGH RADIAL PLOT <u>F. B. Hickman & R. D. Cross</u>		<u>Nov. 9, 1933</u>
SCALE FACTOR (1933) <u>F. B. Hickman</u>		<u>11-9-33</u>
SCALE FACTOR CHECKED <u>R. D. Cross</u>		<u>11-10-33</u>
PROJECTION <u>E. M. Noon</u>		<u>11-13-33</u>
PROJECTION CHECKED <u>M. H. Reese</u>		<u>11-13-33</u>
CONTROL PLOTTED <u>R. D. Cross</u>		<u>11-15-33</u>
CONTROL CHECKED <u>E. L. Fitch</u>		<u>11-16-33</u>
TOPOGRAPHY TRANSFERRED <u>B. B. Lewis</u>		<u>various times</u>
TOPOGRAPHY CHECKED <u>S. B. Grenell</u>		<u>" "</u>
SMOOTH RADIAL LINE PLOT <u>R. D. Cross</u>		<u>12-7-33</u>
RADIAL LINE PLOT CHECKED <u>M. H. Reese</u>		<u>12-7-33</u>
DETAIL INKED <u>B. B. Lewis</u>	<u>12-16-33</u>	<u>2-5-34</u>
AREA DETAIL INKED <u>92.0</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>116.8</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>126.3</u>	Statute Miles	
GENERAL LOCATION <u>Ossabaw Sound</u> <u>Georgia East Coast</u>		
LOCATION <u>Ossabaw Island</u>		
DATUM STATION <u>Os 3, 1933</u>	LATITUDE <u>31-43-21.386 (658.7 M)</u>	
DATUM <u>N. A. 1927</u>	LONGITUDE <u>81-08-21.545 (567.2 M)</u>	

unadjusted

INSPECTION REPORT
for
COMPILATION No. 5115
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.

SHEET LAYOUT:

When the writer took over the compilation party in December, 1933 from M. H. Reese, the radial plots had been run and tracing begun on five compilations Nos. 5113, 5115, 5117, 5120 and 5123. About the time these first compilations were nearing completion a shipment of single lens photographs of the Inside Route were 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 coast and passing through the five ~~lens~~ compilations mentioned above. This constituted a duplication of a portion of the area on each five-lens compilation 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 compilations. Each of these two sheets were compiled again, 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 forwarded as originally compiled. It is realized that the compilations 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 recompiled by returning the original compilations with photographs and prints of adjoining compilations to this office.

CONTROL:

The original radial plot was controlled entirely by triangulation from the coordinating scheme of G. M. Durgin, 1933. Several months after the compilation was completed, Lieut. C. A. Egner ran graphic control sheets over the area and established numerous marked topographic stations. The following stations from aluminum control sheet 6147 were plotted on the compilation: BULL, BUSH, BUT, FACE, NOR, FLAG, SLAT, TREE, TWO, BRAD, JEF, HAG. All of these stations

checked excellently as to measured distances to topographic features - shoreline especially.

Only one station - UP - falling in this area could not be plotted. It falls about 200 meters out in the sound and is obviously listed in error in geographic position on the description card. *See Review*

The fact that these stations are plotted as described indicates that the compilation is accurate.

COMPARISON WITH CONTEMPORARY SURVEYS:

The shoreline on this compilation has been checked against the smooth hydro. sheets of C. A. Egner to which the rodded shoreline had been applied.

LANDMARKS AND COAST PILOT NOTES:

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

NAMES:

All names shown on the overlay have been taken from current issues of charts and U. S. Army Tactical Maps.

Respectfully submitted,

S. B. Grenell
S. B. Grenell

REPORT OF COMPILATION:

RADIAL LINE PLOT:

The standard radial line plot method was used and no great difficulty experienced. There was sufficient control and the intersections between flights on this sheet and adjoining flights checked.

The radial plot was carried continuous across the junction of all adjoining sheets of the same scale factor (.933). The radial plot was carried into the overlap of sheet 5117 which has a scale factor of .915 and the points transferred proportionately.

ADJUSTMENT OF PHOTOGRAPHS:

There is more than the average amount of tilt in some of the photographs on this sheet. The radial points were fairly well selected but in several places there was an insufficient number. Radial points were added where necessary by standard radial line plot method.

INTERPRETATION:

As a whole the pictures were clear and the detail well defined.

In the area Lat. 31° - 50.3'; Long. 81° - 06.5' the shoreline was very indefinite, fading out into the marsh and the approximate shoreline was shown by a dotted line and then by breaking off the marsh lining as it became more indefinite.

Outside of the above instance the standard topographic symbols were used.

COMPARISON WITH CONTEMPORARY SURVEYS:

Junctions with adjoining sheets have been made and detail matched across junctions.

Detail on this sheet was checked with the topographic and hydrographic sheets of Lieut. C. A. Egner.

COMPARISON WITH OTHER SURVEYS:

The detail on this sheet has been checked with the present charts and there is no detail to be removed.

ACCURACY AND COMPLETENESS:

The detail in the area covered by this compilation is as complete as can be determined from the photographs. The probable error in well defined detail is less than 4 meters and in less well defined detail less than 10 meters.

PHOTOGRAPHS

No.	to	No.	Time	Date	Stage of Tide
693		714j-	11:30 AM	6-28-33	6/6 H.W.
717	720	741-			

Approved:

S. B. Grenell
S. B. Grenell

B. B. Lewis
B. B. Lewis,
Draftsman

See Review

REVIEW OF AIR PHOTO COMPILATION T-5115

Scale 1:20,000

1. Projection.

The projection has been checked in the office and found correct.

2. Comparison with Graphic Control Surveys.

T-6146 (1934); T-6148 (1934); T-6151a (1934); scale 1:10,000. Only a few minor changes in the shoreline were made to bring the compilation into agreement with these graphic control surveys.

All information and detail shown on the portions of the G. C. Surveys covered by the compilation are shown on the compilation except temporary topographic stations and the magnetic meridians.

3. Comparison with Graphic Control Survey T-6147, (1934) 1:20,000.

At lat. $31^{\circ}51.5'$, long. $81^{\circ}03.2'$ the western portion of the shoreline on T-6147 agrees with the compilation. ~~200 m. on the~~ ^{A 200 meter section of the line at the} eastern end extends beyond the tip of the island. An examination of the photos shows the compilation to be correct. This discrepancy is apparently due to an error in the rod reading on T-6147. In other sections a few minor changes have been made to bring all except the above mentioned into agreement. All information and detail shown on that portion of T-6147 covered by this compilation is shown on the compilation except temporary topographic stations and the magnetic meridian.

4. Comparison with Contemporary Hydrographic Surveys.

Examination of the new hydrographic surveys shows the compilation to be in agreement with the hydrography on H-5527 (1934), H-5528 (1934) H-5551a (1934), H-5596 (1934) and H-5598 (1934).

5. Comparison with Previous Surveys.

(a) The portions of T-706 (1858), T-707 (1858), T-841 (1860), T-4123 (1925) and T-4131 (1925) that cover the area show no important changes. The compilation is complete and adequate to supersede the portions of the above mentioned surveys which it covers.

6. Recoverable Stations.

The Δ stations Barsons (1934), Horse (1934), Little (1934), and Abaw (1934) were added to the compilation in this office.

The recoverable \odot station "UP" referred to on page 2 has been checked and ~~found that it~~ was scaled incorrectly from G. C. S. T-6147. This station has been added to the compilation from T-6147 and corrected on Form 524. Transferred by L. C. Lande; checked by M. D. Crook.

L.C. Lande

M.D. Crook

7. Remarks.

(a) The accuracy of 4 and 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 15 meters for other detail.

(b) The interior of the marsh areas have been generalized and all of the small sloughs have not been shown.

Descriptions of recoverable stations shown on this compilation are filed under T-6147, T-6146, T-6148, and T-6191a.

Approved
K.T. Adams

L. C. Lande
B. G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. 5115

Chief of Party: S.B. Grenell

Compiled by: B.B. Lewis

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)
Ground surveys made after compilation completed
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)
See descriptive report.
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. H. 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 naviga-
tion 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 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. See descriptive report
- ✓ 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 19, 1935

S. Behr
Chief of Party

19. Remarks after review in office:

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

Examined and approved:

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

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

GEOGRAPHIC NAMES

Date. Sept. 11, 1935

Survey No. T 5115

Chart No. 1241 & 573

Diagram No. 1241-2

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>Vernon River</u>	same			
	<u>Hell Gate</u>	"			
	<u>Raccoon Key</u>	"			
	<u>Ogeechee River</u>	"			
	<u>Rush Creek</u>				
	<u>Egg Islands</u>	"			
	<u>Ossabaw Sound</u>	"			
	<u>Indian Mound</u>	not a proper name			
	<u>Queen Mary's Hammock</u>				
	<u>Cane Patch Creek</u>	"			
	<u>Horse Hammock</u>	"			
	<u>Polly Point</u>	"			
	<u>Buckhead Creek</u>	"			
	<u>Ossabaw Island</u>	"			
	<u>Bradley River</u>	"			
	<u>Big Tom Creek</u>	"			
	<u>St. Catherines Sound</u>	"			
		Newell Creek (chart 573)		?	
		names approved 10/18/35			
		I.K.T.A.			