# 5113

U. S. COAST & GEODETIC SURVEY LIBRATY AND ARCHIVES

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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. 5113
(
State Georgia
LOCALITY Wassaw Sound Georgia Fast Coast
and Island's, Tybee Island to Wassew Sound
193 5
OHIEF OF PARTY
S. B. Grenell

U.S. GOVERNMENT PRINTING OFFICE: 1934

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#### 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. 5113 12402
State Georgia
wassaw sound
General locality Georgia East Co. st
Locality Tybes Island to Wassaw Sound
photographs: 6-28-33 Scale 1:20,000 Date of survey , 19
Vessel Aerial Photo Compilation Party No. 18  Reviewed & recommended for approval: Chief of party Lieut. (j.g.) 5. B. Grenell
photographs plotted by: f B. Hickman
Inked by T. R. Cooper and J. B. William, Jr.
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Compilation of Aerial photos Nos.: 672 to 693;
741 to 761
S Company of the Comp

#### -- NOTES OF COMPILATION-

One copy of this form must accompany each chart from begining 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. 5113

PHOTO NO 672 to	РНОТО NO. 693
BY J. B. Hick	START FINISH
ROUGH RADIAL PLOT E. M. Noon & F.B. Hi	
SCALE FACTOR (.933) H. L. Beck, Jr.	
SCALE FACTOR CHECKED F. B. Hickman	11-8-33
PROJECTION A. M. Gruber	10-8-34 10-9-34
PROJECTION CHECKED S. B. Grenell	10-9-34
CONTROL PLOTTED A. A. Futral	10-9-34 10-10-34
CONTROL CHECKED W. R. Taylor	10-11-34 10-11-34
TOPOGRAPHY TRANSFERRED S. B. Grenell	& T. R. Cooper Various Times
TOPOGRAPHY CHECKID	<u>n n n n</u>
SMOOTH RADIAL LINE PLOT F. B. Hickman	a 10-13-34 10-16-34
RADIAL LINE PLOT CHECKED S. B. Grene	10-17-34
DETAIL INTED T. R. Cooper & J. B. Wi	11iams 10-17-34 2-28-35
AREA DETAIL INKED 60.9	Square Statute Miles
LENGTH OF SHORE LINE OVER 200m. 58	.4 Statuto Milos
LENGTH OF SHORE LINE UNDER 200m.	
GENERAL LOCATION Georgia East	Coast
LOCATION Tybee Island to	1 Islands
DATUM STATION Bank, 1932	LATITUDE31-58-29.440 (906.8M)
DATUM N. A. 1927	LONGITUDE 81-00-07-878 (206-8M)

## INSPECTION REPORT for COMPILATION No. 5113 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 filed with compilation 5114.

#### GENERAL INFORMATION:

This compilation was originally compiled as a full size sheet. It was the first compilation made in Savannah by an unexperienced draftsman and the work was not up to the standard now held. Later, portions of the original layout were covered by single lens and 5-lens 1:10,000 compilations so it was decided to recompile the sheet covering only the area not included in the 1:10,000 layouts adjoining.

The radial plot was run again on a new projection and additional control was used. This control was located by C. A. Egner subsequent to the first radial plot and was of great value in holding the second plot. The area had also been sounded by C. A. Egner and and the compilation of the sheet was checked as work pregressed with the smooth hydrographic sheets and aluminum control sheets executed by that party.

The photographs were very dim and it was difficult to trace out some of the small streams. In checking these streams the hydrographic sheets proceed to be of unusual value.

#### CONTROL:

The radial plot was controlled entirely by triangulation ostablished by C. M. Durgin, 1933 and C. A. Egner, 1934 as noted above.

Control estillisting frames, to the 1933

COMPARISON WITH CONTEMPORARY SURVEYS:

This compilation has been carefully checked with the rodded detail from the field topographic control sheets of C. A. Egner and all difficulties ironed out where possible. The shoreline has also been checked against the smooth hydrographic sheets and found satisfactory.

There are two docks on the east bank of the Wilmington River near triangulation station BANK (Lat. 31°-58.5'; Long.81° - 00.2') that were scaled on this compilation from the sheet G' (aluminum control sheet #6166, C. A. Egner, 1934) The photographs covering this area had been sent into Washington before the aluminum control sheet was received in this office but it is thought that since the photographs were very dim on that flight that the docks were not recoverable on the pictures. It is requested that the reviewer of this sheet check these docks with the photographs in case they do not show up.

After this compilation was completed the description cards for Egner's marked topographic stations were received and the stations plotted on the compilation and measured references to H.W.L. and other definite detail checked. The stations were from aluminum mounted control sheets Nos. 6154 b, 6147, 6166, 6193. There were 35 stations plotted as follows:

TRES, SCRAP, DIA, HOO, HIP, HAN, POT, IN, LAST, LAY, NEXT, PIT, RAG, ISLE, BATH, END, PI, RIT, PO, TEE, HOW, SCOTT, BAG, WEST, HUG, PROP, TALL, MAL, RAT, KIM, LO, BIG, LIT, AFT.

One station - FACT - falls out in the water and has not been plotted. The compilation has been carefully checked and is correct as far as can be determined.

Notes have been penciled on the bottom of each description card for each marked topographic station plotted on the compilation. The reviewer should refer to these notes in checking the plot.

#### LANDMARKS AND COAST PILOT NOTES:

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

#### NAMES:

All names appearing on the overlay were taken from current issues of charts and U. S. Army Tactical Maps.

Respectfully submitted.

S. B. Grenell

#### REPORT OF COMPILATION:

#### RADIAL LINE PLOT:

. The standard radial line plot method was used in making the plot for this sheet.

No particular trouble was experienced in running the plot through, all control does not hold in every case but this fact was attributed to the dimness of the photographs rather than any trouble with field inspection or geographic positions.

The first time the compilation was done so many difficulties were encountered that were new at the time, that it was decided to do the sheet overleaving out areas that had been covered by 1:10,000 single lens and 1:10,000 five lens.

#### ADJUSTMENT OF PHOTOGRAPHS:

The photographs for this compilation were badly tilted which made the compilation of this sheet extremely difficult. The radial points in most cases were too far apart and the dimness of the photographs made it almost impossible for the points to be pricked well. It was necessary to establish new points in order to complete the sheet accurately, these points were were put in by the interlacing method. (This method is explained by A. M. Gruber in compilation report #5219.)

Distance between the center of the flights was too great, not allowing the usual amount of side lap and necessitating tracing too far out on the wings.

#### INTERPRETATION:

The photographs were very dim and the detail poorly defined. These photographs were by far the poorest received by this party, and it was only through the use of interlacing radial points and useing shoreline from G. A. Egner's hydrographic survey that we were able to make this compilation. Standard topographic symbols were used throughout the compilation.

#### COMPARISON WITH CONTEMPORARY SURVEYS:

Junctions with adjoining sheets are complete and satisfactory.

The shoreline was checked with the hydrographic sheets of  $C_{\bullet}$  A. Egner.

#### COMPARISON WITH OTHER SURVEYS:

This compilation agrees satisfactorily with the detail shown on chart #1241.

#### ACCURACY AND COMPLETENESS:

As nearly as can be determined from the photographs this compilation is complete in every detail. Probable error in well defined detail not more than 4 meters; probable error in less well defined detail, not more than 10 meters.

#### PHOTOGRAPHS:

No.	tc	No.	Time	Date	Stage of Tide
673		692	11:15 AM	6-28-33	6 ft. H.W.
740		759	11:45 AM	6-28-33	6 ft. H.W.

J. B. Williams, Jr. Draftsman

Approved:

S. B. Grenell

#### REVIEW OF AIR PHOTO COMPILATION T-5113

#### (1:20,000)

#### Projection

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

#### 1. Comparison with Graphic Control Surveys.

- (a) T-6193, 1934 (1:20,000) at latitude 31° 58', longitude 80° 57.6' an island has been added to the compilation. There are large differences between the sections of shore line on T-6193 and this compilation. These differences amount to 3 to 75 meters. Each difference has been examined carefully by comparison with the photos and check of the photo plot. Only minor changes have been made on the compilation which is accepted as correct. The differences seem to be due largely to very poor plane table sketching and to differences in interpretation. A note has been placed on T-6193 referring to this compilation for correct location of detail.
- (b) T-6147, 1934 (1:20,000): Station Fact referred to on page 2 of the general report and described on form 524, was found to be scaled from the G.C.S. incorrectly. This has been corrected and the station plots in accordance with its description.
- (c) T-6154b, 1934 (1:10,000): at latitude 31° 59.3', longitude 80° 51.2' the HWL differs from compilation by 0 to 12 m. After examining the photos the compilation has been accepted as correct.
- (d) T-6166 and T-6192, 1934 (1:10,000): The 2 docks referred to on page one of the general report though very dim could be spotted on the photos and agree withthe G.C.S. positions. The G.C.S. and compilation are now in agreement. The G.C.S. T-6192 has no shore line rodded in that appears on this compilation, but the temporary signals agree with the compilation HWL.
- (e) All information and detail shown on the above listed graphic control surveys within the area of this compilation is now shown on the compilation except the temporary topographic signals and the magnetic meridians.

#### 2. Comparison with Recent Hydrographic Surveys.

(a) H-5550, 1934 (1:10,000); H-5574a & b, 1934 (1:10,000); H-5592, 1934 (1:10,000); H-5596, 1934 (1:10,000); H-5597, 1934 (1:10,000); H-5599, 1934 (1:20,000).

H-5574 shows two small dock positions at Lat. 31°59.3', Long. 80°59.8', which cannot be spotted on the photos and are not shown on the compilation. A small island has been added to the compilation at lat. 31°58', long. 80°57.6', which is not shown on H-5574b and H-5599 covering the area. This has been referred to the reviewing section.

Except for the discrepancies mentioned the positions of the hydrographic surveys noted above which are covered by the compilation are in agreement, with the compilation.

#### 3. Comparison with Former Surveys.

(a) Comparison with the portions of T-906 (1863), T-992 (1867), T-1089 (1869), T-4131 (1925), and T-4135 (1925) that cover the area of this compilation shows no important changes. The compilation is complete and adequate to supersede the portions of the above mentioned surveys which it covers.

#### 4. Recoverable Stations.

Descriptions of recoverable Ostations shown on this compilation are filed on Form 524 under T-6147, T-6154b, T-6166, T-6193.

#### 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 and in view of statements on page 3 regarding the photographs a better estimate would be 6 to 10 meters for intersected points and 6 to 20 meters for other detail.
- (b) The interior of the marsh has been somewhat generalized as all the small sloughs have not been shown.

#### 6. Comparison with Present Charts.

There are several docks shown on the compilation on the Wilmington River which do not appear on the present chart. No aids to navigation 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 surveys on this compilation.

L. C. Lands Bg govers

83. goves 8/5/35

Approved K.T. Adams



### Date. 6/15/35 GEOGRAPHIC NAMES

Survey No	<u> </u>	511	3
Chart No			

Diagram No.\_\_\_\_\_

Approved	by	the	Division	of	Geographic	Names,	Department of Interior	or.	<del>*</del>
Referred	to t	he [	Division	of	Geographic	Names,	Department of Interior	or.	R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Delegal Creek	U.S. C+G-S	440	·	
•	Adams Creek				
	Little Wassaw 1	sland 11			
, vî	Pine Island				
<u> </u>	Wassaw Creek	**			
	Rhodes Creek				
<u> </u>	Curtis Creek	1,			
. :/	Oding sell River	- ' '			
· · ·	Flora Hammocl	<u> </u>			
/	Skidaway Islan	<u>d</u> ''			7-4
· · ·	Romerly Mars	J.			
<b>√</b>	Habersham Cree				
	Romerly Marsh	· ·			
<u> </u>	Old Romerly Mars		· · · · · · · · · · · · · · · · · · ·	1	
<del>_</del>	Wassaw Islar				<del></del>
	Wilmington Ri	ver !,	,		
	145×118 245		•	,	
. /	Turners Creek		<u>-</u>		
•. /	Wilmington 1s		<del></del>		<del></del>
· ·	Beard Creek	-			
	Half Mark Ru	ret (one word) 1			• .
· · · · · · · · · · · · · · · · · · ·	Half Moon Riv	ret (one word) "			_ <del>`</del>



#### GEOGRAPHIC NAMES

Survey No.	15113
Chart No	

Approved by the Division of Geographic Names, Department of Interior.	*
Referred to the Division of Geographic Names, Department of Interior.	R
Under investigation O	

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
. /	Cabbage Islan	nd 43 C+G5 44	٥		
	Wassaw Sou	nd !			
· · ·	Petit Chou Isl	and "			<u> </u>
: 	House Cree	{			•
/	Tybee Islan	nd			
	Little Tybee	<b>{</b>			
	Tybee Creel	,			
	Tybee River	}			·
<b>✓</b>	Oyster Cree				
<i>J</i>	Shad River	•			-, <u>-</u>
		HIA			
ſ		1	Tybee Cut	(GN. Standar	1)
		Lazaretto Creek			
			Joes Cut	Wassaw Soun	d Quad)
		✓	Mud I	. ,	٠,
		·	Cabbage Cr	ek (T906)	
		(	Seine Cro		
		·	Sheepshead	, ,	
			Tom Creed	j !	<del></del>
<del></del>					
· ·		name approved 10/18/35			
		KTM.			(M-

#### REVIEW OF AIR PHOTO COMPILATION NO. 5113

chief of Party: S. B. Grenell

compiled by: J. B. Williams

Project: F.P.4, Ga. Party #18

Instructions dated: Nov. 10, 1935

- 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) Sec report by C.H. Egne.
- 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)
- 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.

  See descriptive report this Compilation
- 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
  v quate 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)

  Pholled from Firm 524 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)

  Firm 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 navigation 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 11.4.1927 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; April 10, 1935

SRH

Chief of Party

19. Remarks after review in office:

Reviewed in office by: L. C. Land 6/29/35 Bg gones

Examained and approved:

Asst Chief, Section of Field Regards

Chief. Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

guly 9, 1936 g. H. S. applied to chart 440.