

# 5215

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Georgia

DESCRIPTIVE REPORT

Photo

Topographic

~~Hydrographic~~

Sheet No. 5215 **5215**

LOCALITY

Georgia, Ga.

Ossabaw Sound

Vernon River to Florida Passage

1934

CHIEF OF PARTY

Lieut. (j. c.) S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1923

# 5215

1041-2

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

Applied to chart 440 July 14, 1936 J.H.S.

Applied to chart 573 Nov. 6, 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. 5215      **5215**

State..... GEORGIA .....

General locality..... *Vicinity of Ossabaw Sound* .....

Locality..... *Vernon River to Florida Passage.* .....

Scale 1:10,000      Date of Photographs: 12/6/33; 12/17/33  
Date of ~~Survey~~ Comp. April, 1934

Vessel.....

Reviewed and recommended for approval:  
Chief of party..... *Lieut. (j. g.) S. B. Grenell* .....

Photographs plotted by:  
~~Surveyed by~~..... *F. B. Hickman* .....

Inked by..... *John Tassapoulos* .....

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. (789) M158-165; M176-180.*

# NOTES ON 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. 5215  
(789)M158 - M165  
PHOTO NO. M176 - TO PHOTO NO. M180

	BY	START	FINISH
ROUGH RADIAL PLOT			
SCALE FACTOR( )			
SCALE FACTOR CHECKED	<i>S. B. Grenell</i>		
PROJECTION	<i>A. A. Futral</i>	2/9/34	2/9/34
PROJECTION CHECKED	<i>F. B. Hickman</i>	2/9/34	2/9/34
CONTROL PLOTTED	<i>F. B. Hickman</i>	2/12/34	2/12/34
CONTROL CHECKED	<i>S. B. Grenell</i>	2/12/34	2/12/34
TOPOGRAPHY TRANSFERRED			
TOPOGRAPHY CHECKED			
SMOOTH RADIAL LINE PLOT	<i>F. B. Hickman</i>	3/21/34	3/28/34
RADIAL LINE PLOT CHECKED	<i>S. B. Grenell</i>	3/28/34	3/28/34
DETAIL INKED	<i>John Tassapoulos</i>	3/31/34	4/27/34

AREA DETAIL INKED 20.7 sq. Statute Miles  
LENGTH OF SHORELINE OVER 300 m. 42.8 Statute Miles  
LENGTH OF SHORELINE UNDER 300 m. 50.7 Statute Miles

GENERAL LOCATION Coast of Georgia

LOCATION Delegal Creek to Florida Passage

DATUM STATION Green Island 2-1932 Latitude ~~31-53+152.7 m~~ 31° 53' 04.980" (153.4 m)  
N A 1927 Datum Longitude ~~81-04+931.3 m~~ 81° 04' 35.446" (931.6 m)

(adjusted)

*U.S.S.*



## COMPILATION METHOD:

This sheet was compiled by the standard radial line plot method. The plot was run through without difficulty.

## ADJUSTMENT OF PHOTOGRAPHS:

Very little adjustment was necessary between radial points, there being only a small degree of tilt involved.

## INTERPRETATION:

No great difficulty was experienced in interpretation of detail since photographs were very clear.

Only the usual graphic symbols were used. The stereoscope was used to pick up definite lines between hammocks and marsh.

The area, Lat. 31-50.7, Long. 81-06.7 is indicative of a flooded marsh along the bank of the stream. This symbol is shown as a broken up area of marsh, ~~where definite~~, the bank of the stream was shown by a solid line. ~~Otherwise the dashed line was employed.~~

Mud areas, bare at low water, are ~~outlined by a dashed line~~ *shown by mud & grass symbols* outside of the shoreline.

Series of dots in marsh indicate sand areas.

## INFORMATION FROM OTHER SOURCES:

Photographs and field inspection sketches were the only source of information used in compiling this sheet.

## COMPARISON WITH OTHER SURVEYS:

Junctions with adjoining sheets compiled in this office are complete and satisfactory.

## ACCURACY AND COMPLETENESS:

The area covered on this sheet is complete in every detail. As nearly as can be determined from the photographs, all well defined detail is located with a probable error of not more than 4 meters; less well defined detail with an error of not more than 10 meters.

## PHOTOGRAPHS:

No.	to	No.	Date	Time	Stage of tide.
(789) M158	-	M165	12/17/33	11:30	4/9
" M176	-	M180	12/6/33	11:00	6/6 H. W.

*John Tassapoulos*  
John Tassapoulos,  
Draftsman

APPROVED:

*S. B. Grenell*  
S. B. Grenell

# INSPECTION REPORT

Sheet No. 5215

## REFERENCE:

In reviewing this sheet in the Washington office, reference should be made to the General Report for single lens sheets filed with sheet No. 5206.

## GENERAL INFORMATION:

The area covered by this sheet is almost entirely salt marsh with a few small wooded hammocks scattered over the sheet. The marsh is of the usual type along this coast and is fully described in the report of above reference.

The hammocks are very low, only a few feet above high water, and covered with a dense growth of oak, pine and deciduous growth. The oak predominates and the undergrowth is mostly deciduous brush with a scattering of scrub palmetto which occurs in relatively small amounts.

The marshline is generally clean cut and continuous and it was comparatively easy to trace out the definite high water line from the photographs.

## CONTROL:

The radial plot of this sheet was controlled entirely by triangulation; the bulk of which was located or relocated in the coordinating scheme of S. M. Durgin, 1932-3. The balance of the control was located by C. A. Egner, 1934.

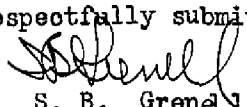
## LANDMARKS FOR CHARTS:

Form 567 will be submitted by C. A. Egner, 1934.

## LIST OF NAMES:

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

Respectfully submitted,

  
S. B. Grend



## REVIEW OF AIR PHOTO COMPILATION NO. 5215

Chief of Party: S. B. GRENNELL

Compiled by: J. Tassopoulos

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) *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)  
*review. No additional ground surveys made*
- ✓ 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) *No additional information.*
- ✓ 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.~~ *Hydrography checked, shore line to date. No plane table shore line available at date of compilation. See review.*
- ✓ 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 review.*  
*Form 524 submitted by C.H. 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 submitted 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 *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 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;

9-7-34



Chief of Party

19. Remarks after review in office:

*See following pages.*

Reviewed in office by: *V. R. Sobieralski*  
*B. G. Jones*

Examined and approved:

*K. T. Adams*

*Asst* Chief, Section of Field Records  
*Division of Charts*



Chief, Division of Charts

*J. S. Borden*

Chief, Section of Field Work



Chief, Division of Hydrography  
and Topography.



## Review of Air Photo Compilation T-5215 (1934)

### Projection:

The projection has been checked in the office and is satisfactory, except meridian  $81^{\circ} 03'$  which is 3 meters too far east at lat.  $31^{\circ} 54'$ . The compilation has not been changed as it would affect the plotting of control and detail.

### Comparison with other Surveys.

1. The contemporary plane table control surveys show short stretches of shore line and the locations of signals for hydrography and air photo control. However, it is apparent that the plane table control was not used by the compilation party, nor was a field comparison made between the plane table surveys and the compilation.

- (a) T-6148, 1934 (1:10,000). The plane table high water line around the point of marsh at lat.  $31^{\circ} 51.2'$ , long.  $81^{\circ} 08.5'$  differs from the compilation by 0 to 15 meters. This is probably due to sketching between rod readings as the plane table shore line agrees with the compilation in several places. The compilation has not been changed.
- (b) T-6146, 1934 (1:10,000). At lat.  $31^{\circ} 51.8'$ , long.  $81^{\circ} 04.8'$  the plane table shore line around the N W point of Raccoon Key differed from the compilation shore line by 50 meters. The compilation showed a low water line which outlined a mud area base at low water. This line agreed well with the plane table shore line. This condition was also found at lat.  $31^{\circ} 51.5'$ , long.  $81^{\circ} 04.5'$ , where the difference was about 25 meters. After inspecting the photographs, which were taken at high water, the north shore line of Raccoon Key was retraced in the office. The compilation now agrees well with the plane table survey.

The same condition discussed above existed at the SW point of the marsh island south of Skidaway Island, lat.  $31^{\circ} 52.2'$ , long.  $81^{\circ} 04.2'$ . The difference in shore line location was 55 meters. The south shore line of this island was retraced in the office.

At lat.  $31^{\circ} 51.3'$ , long.  $81^{\circ} 04.8'$  the plane table shore line agreed with the compilation shore line, but at lat.  $31^{\circ} 51.8'$ , long.  $81^{\circ} 04.9'$ , the plane table shore line fell 17 meters inside the compilation shore line. Inspection of the photographs showed that the compilation

party used, for the western shore line of Raccoon Key, what appears to be the limits of a marsh area bare only at low water. The location of the shore line in this area is indefinite and difficult to determine as the marsh is partly flooded at high water. The shore line has been retraced in the office to agree more closely with the photographs. The compilation now agrees with the plane table survey.

A short section of plane table shore line at  $\Delta$  Green Island 2, 1932, differed from the compilation by 0 to 15 meters. About 275 meters of the compilation shore line has been retraced in the office. The compilation now agrees well with the plane table survey.

At lat.  $31^{\circ}52'$ , long.  $81^{\circ}05'$ , and at lat.  $31^{\circ}53.5'$ , long.  $81^{\circ}08.5'$ , the plane table shore line differs from the compilation by 0 to 23 meters and by 0 to 10 meters respectively. The differences are probably due to differences in interpretation and sketching between rod readings. The compilation has not been changed.

- (c) T-6145, 1934 (1:10,000). At lat.  $31^{\circ}54.9'$ , long.  $81^{\circ}07.1'$  the plane table shore line differs from the compilation by 85 meters. This is probably due to an error in the last rod reading along this stretch of shore line. The photo plot has been checked, and the compilation is accepted as correct.

A short section of plane table shore line at  $\odot$  TEL(d), lat.  $31^{\circ}54.1'$ , long.  $81^{\circ}07.1'$  differs in location from the compilation by 17 meters. This is due to the error in locating  $\odot$  TEL(d) on T-6145, which is discussed under Recoverable Stations.

2. T-4131, 1925 (1:20,000). Comparison with this survey shows several minor changes in the marshy shore line, but the fast land areas remain practically the same. The compilation is complete and adequate to supersede this survey.

3. T-707, 1858 (1:10,000). Comparison with this survey shows several large changes in the marshy shore line. Several creeks shown on T-707 have practically disappeared. The greatest shore line change is on the south side of the marsh island south of Skidaway Island. The shore line on T-707 is about 300 meters outside the compilation shore line.

A strip of high ground is shown on T-707 along the west bank of a small creek from lat.  $31^{\circ}54'$ , long.  $81^{\circ}05.3'$ , to lat.  $31^{\circ}54.6'$ , long.  $81^{\circ}05.7'$ . This area is not shown on the compilation. Inspection of the photographs shows that the creek is almost entirely closed and there is no indication of high ground. The compilation is accepted as correct. It is complete and adequate to supersede T-707.

4. Charts 1241 and 573. The compilation agrees well with the charts of this area with the exception of the strip of high ground discussed above which is shown on chart 1241, and the beacons noted under Aids to Navigation (p.4).

Recoverable Stations:

Described station TE(d) when plotted on the compilation from the position on Form 524 fell about 15 meters outside the shore line. The description of TEL(d) states that the station is one meter in from the high water line. The photo plot was checked and found to be correct. A note on plane table survey T-6145 states that some signals were transferred from field sheet "D" (T-6146). Comparison of the two surveys shows that the stations transferred are: CHEE, LON, OY, PAG, TE(d), and WAVE (d). The positions of these stations on T-6145 are 17 meters east of the correct positions as shown on T-6146. The position of TEL (d) on the description was scaled from T-6145. The correct position of this station has been scaled from T-6146 in the office, and it has been plotted on the compilation. The description has been corrected and filed under T-6146. A note has been placed on T-6145 referring to the compilation and to this review.

Plane table station HAL is shown on T-6145 at lat. 31°54.9', long. 81°07.2'. Inspection of the plane table sheet shows that one cut on HAL is from one of the stations transferred from T-6146. For this reason, plane table position of HAL, and the shore line located from this station, is in doubt. The description has been removed from the files. The station has not been transferred to the compilation.

Recoverable positions plotted on the compilation in the office are described on Form 524 and filed as follows:

<u>Station Name</u>	<u>Filed under</u>	<u>Station name</u>	<u>Filed under</u>
AFTER (d) - - - - -	T-6143	SIDE (d) - - - - -	T-6146
ADD (d) - - - - -	T-6145	TAG (d) Tel.Pole	"
MAC (d) - - - - -	"	TEL (d) - - - - -	"
TAP (d) - - - - -	"	TRI (d) - - - - -	"
BI (d) - - - - -	T-6146	TRO (d) - - - - -	"
CABE(d) Tel.Pole - - -	"	TURN(d) - - - - -	"
CHEE(d) - - - - -	"	WAVE(d) - - - - -	"
COR (d) Tel.Pole - - -	"	WHITE(d) Tel.Pole	"
DOS (d) " " - - -	"	CAR (d) - - - - -	T-6148
FLAT(d) - - - - -	"	FOX (d) - - - - -	"
LAST(d) Tel.Pole - - -	"	JO (d) - - - - -	"
RIV (d) - - - - -	"	SING(d) - - - - -	"
ROB (d) - - - - -	"		

Plotted by *V.R. Sobieralski*

Checked by *D.H. Benson*

The 4" X 4" stake on the east bank of Florida Passage was transferred from T-6148.

Aids to Navigation:

Vernon River Beacons "2", and "4", and "6" and Florida Passage Beacon "7" have been added to chart 1241 since the last printing on Sept. 7, 1934. The compilation and plane table surveys were completed before that date and these beacons are not shown. All other aids to navigation shown on charts 1241 and 573 are shown on the compilation, except Middle Marsh Beacon "2" which has been removed according to the Desc. Report for H-5520.

The 1932 triangulation position of Hell Gate Beacon "1" was used on the compilation. This beacon was destroyed in 1933 and replaced in 1934. The plane table position on T-6146, 1934, is 6 meters west of the triangulation position. The plane table position is the latest position available, and it has been plotted on the compilation. The triangulation position has been removed. This change has not affected the plot in this area as the photographs are well controlled.

*V. R. Sobiralski*

*V. B. G. Jones*

Date. April 12, 1935 **GEOGRAPHIC NAMES**  
**GEORGIA**

Survey No. T 5215

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>				
	<u>Ogeechee River</u>				
	<u>Little Ogeechee River</u>				
	<u>Florida Passage</u>				
	<u>crooked Creek</u> <del>Crooked Creek</del>				
	<u>Delegal Creek</u>				
	<u>Adams Creek</u>				
	<u>Charles Creek</u>				
	<u>Red Bird Creek</u>	make one word <u>Red bird</u>			
	<u>Skipper<del>x</del> Narrows</u>	<del>Skipper Narrows</del> (on 573)	KTA		
	<u>Hell Gate</u>				
	<u>Ella Island</u>				
	<u>Green Island</u>				
	<u>Skidaway Island</u>				
	<u>Raccoon Key</u>				
	<u>Little Don Island</u>				
	<u>Middle Marsh Islands</u>				
	<u>Egg Island<sup>S</sup></u>				
	<u>Harveys Island</u>	<u>Harveys Slant</u>			
	<u>Bear Island</u>				
	<u>Queen Bess Creek</u>	from PNH			
	<u>Ossabaw Island</u>		APPROVED NAMES. UNDERLINED IN RED H.L. Flemer		