

5508

U. S. COAST & GEODETIC SURVEY  
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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. T-5508  
*Hydrographic* }

State Florida

### LOCALITY

Apalachicola Bay.

Longitude 85°10'10" to Cedar Point  
on St. George Island.

Cape St. George

193 5

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

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. T-5508

*Dia 183*

State.....Florida.....

General locality.....Apalachicola Bay.....

Locality.....*Cape St. George*  
~~Longitude 85°10'10" to Cedar Point on St. George Island.~~

Scale.....1:20,000.....Date of ~~Survey~~ <sup>photographs</sup> 9/6 & 9/19, 19 34

~~18888~~ Air Photo Compilation Party No. 24, Pensacola, Fla.

Chief of party.....M. H. Reese.....

Surveyed by.....See data sheet in descriptive report.

Inked by.....H. C. Ingerson.....

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....June 7....., 19 34

Remarks: Compiled and printed on a scale of 1:20,000.

Scale factor 1.00.

- STATISTICS -

on

SHEET, FIELD NO. 942, REG. NO. T-5508  
 PHOTOS, NO. C-134 TO NO. C-144  
 DATE OF PHOTOGRAPHS 9/6/34 TIME 8:35 a.m.  
9/19/34 TIME 9:45 a.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	--	
SCALE FACTOR (1.00)	--	
SCALE FACTOR CHECKED	--	
PROJECTION	<i>E. P. Hernandez, Jr.</i>	2/22/35
PROJECTION CHECKED	<i>G. O. Coignet</i>	2/22/35
CONTROL PLOTTED	<i>C. C. Brown &amp; F. A. Donadieu</i>	2/23/35
CONTROL CHECKED	<i>H. A. Butters, Jr.</i>	2/23/35
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<i>H. C. Ingerson</i>	3/14/35
RADIAL LINE PLOT CHECKED	<i>E. P. Hernandez, Jr.</i>	3/14/35
DETAIL INKED	<i>H. C. Ingerson</i>	3/22/35
PRELIMINARY REVIEW OF SHEET	<i>E. L. Fitch</i>	5/7/35

TOTAL SHEET AREA 112.6 sq. Statute Miles

AREA OF DETAIL INKED 16.1 sq. Statute Miles (Land Area)

AREA OF DETAIL INKED -- sq. Statute Miles (Shoals in Water Area)

LENGTH OF SHORELINE (more than 200 m. from nearest opposite shore)

66.6 Statute Miles

LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)

46.1 Statute Miles

GENERAL LOCATION Apalachicola Bay

LOCATION Cape St. George  
Longitude 85°10'10" to Cedar Pt. on St. George Is.

DATUM North American 1927 (Adjusted) Latitude 29°35'14.664" (451.5 m.)  
Unadjusted Latitude 29°35'14.619" (450.1 m.)

STATION St. George Lighthouse (Center) Longitude 85°02'49.541" (1333.3 m.)  
49.522" (1332.9 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5508

I. GENERAL INFORMATION:

The information used in the compilation of this sheet was obtained from notes and sketches made by the field inspection party and from aerial photographs of the area.

This sheet is composed of parts of two islands, namely St. Vincent Island on the west and St. George Island in the south-east. Between a point on St. Vincent Island and one on St. George Island is a narrow navigable channel from the Gulf of Mexico to Apalachicola Bay.

St. Vincent Island is very marshy on the northern half and is indented with many bayous and lagoons. The southern half is composed of sand ridges running east and west to southwest, interspersed with some marshy ground. The whole island is dotted with lakes of all sizes which are connected in most cases by meandering rivers and streams. The southern shore is a sandy beach. The vegetation is composed of palm trees along the west and south shores, while the interior is covered with pine trees, palmettos and brush.

St. George Island is long and narrow and runs east and west. The western end makes, approximately, a 135° turn to the northwest toward St. Vincent Island. It is marshy in places in the interior while the north shore is marshy for its entire length. The south shore is a sand beach, the outline of which was drawn on the celluloid. The interior has many sand dunes ten to fifteen feet high and the vegetation is mostly pine, palmetto and brush, with a few palms near the shore. St. George Lighthouse is in the southwest portion and is apparently the only inhabited part of ~~both the~~ island.

This sheet was compiled from photographs No. 942 to No. 948 taken September 6, 1934 with Aero Service Corporation's five-lens camera H.U.I.-33, and photographs C-134 to ~~C-144~~ taken September 19, 1934 with a single-lens camera.

The difference between high and low tide is so small (mean range of tide 1.2 feet) that only the high water line, as determined by the field inspection party, was traced on the sheet.

II. CONTROL:

(A) Sources.

The following sources of control were used in the compilation of this sheet:

Triangulation by Lieuts. C. A. Egner and George L. Anderson, 1934.

All control has <sup>is on</sup> been adjusted to the North American 1927 ~~Adjusted~~ Datum. ( )

(B) Errors.

No errors were found.

(C) Discrepancies.

No discrepancies were found.

III. COMPILATION:

(A) Method.

The radial line method of plotting was used in the compilation of this sheet.

(B) Adjustment of plot.

The single-lens photos were practically to scale but there was some scale difference in the wings of the five-lens photos.

(C) Interpretation.

The north shore line of St. George Island was very indefinite in parts, being mainly marsh and mud flats. This shore line was drawn as a broken line and interpreted to the best of the draftsman's ability and knowledge.

The standard symbols as authorized by the Board of Surveys and Maps, 1932, have been used, with the addition of the symbol ( } ) that was used to designate brush.

(D) Information from other sources.

The hydro station "Them" was transferred directly from Lieut. C. A. Egner's tracing and was not out in by radial line intersections. Other than this, no outside information was used.

(E) Conflicting names.

None found.

(F) New names.

None found.

IV. COMPARISON WITH OTHER SURVEYS:

Junctions of this sheet with T-5506 on the west and T-5514 on the east are satisfactory.

A comparison of this sheet with Charts 183 and 184 has revealed the following changes:

(a) On the charts a large lake is shown in the interior of St. Vincent Island. However, on the sheet this now appears as several smaller lakes and rivers.

(b) A large lake that is shown on the sheet, on the south of the island, does not appear on either Chart 183 or 184.

(c) Islands off St. Vincent Point which are shown on Charts 183 and 184 are not on the sheet (T-5508). *(see Paragraphs 2 & 6 of Review)*

(d) On Charts 183 and 184 the northwest end of St. George Island appears as a separate island called Sand Island. This has since filled in until it is fully connected with St. George Island, as it is now shown on the compilation.

(e) Some lakes which are shown in the interior of St. George Island on Charts 183 and 184 now appear simply as marshy ground on the sheet. Other lakes which do not appear on Charts 183 and 184 are now shown on the sheet (T-5508).

(f) A dock which shows in Horseshoe Cove off St. George Island on Charts 183 and 184, no longer exists.

(g) The whole northern shore of St. George Island, which is very marshy, has changed in places.

A comparison of this sheet with the topographic sheets of this area submitted by Lieut. C. A. Egner reveals the following variations:

(a) On the north shore of St. George Island in the vicinity of Latitude 29°36' and Longitude 85°00', the shore line on the

two sheets varies in places. This is due to its being very indefinite and difficult to interpret exactly. The terrain in this vicinity is all marsh and mud flats.

(b) A small variation also exists in the vicinity of Latitude  $29^{\circ}37'$  and Longitude  $84^{\circ}57'$ , due to misinterpretation.

(c) There are no major variations at any other points on the two sheets. All marked topographic stations and triangulation stations check their exact positions on both sheets. Marked topographic station U.S.E. #2 was scaled directly from the topographic sheet to the compilation.

V. LANDMARKS:

The list of landmarks for the area covered by this sheet is submitted by Lieut. C. A. Egner.

VI. RECOMMENDATIONS FOR FURTHER SURVEYS:

To the best of my knowledge, this sheet is complete in all detail of importance for charting purposes, and no additional survey is required.

Submitted by: H. C. Ingerson,  
Draftsman.

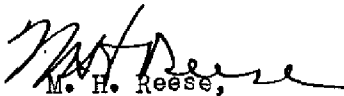
Approved by: M. H. Reese,  
Chief of Party.

*This compilation is believed to have a probable error  
of 0.3 to 0.5 m.m. for instrumented points and 0.3 to 0.8  
for other detail. J.G.E.*

MEMORANDUM TO ACCOMPANY SHEET NO. T-5508.

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Bearings of ranges are not shown on this sheet because a portion of the triangulation was executed on the North American Datum and part on the North American 1927 Datum. It was not thought advisable to compute inverses between two positions until the triangulation has been computed on the North American 1927 Datum.

  
M. H. Reese,  
Chief of Party, C. & G. S.



# GEOGRAPHIC NAMES

Survey No. T-5508

Chart No. 183

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

Date. \_\_\_\_\_

Approved by the Division of Geographic Names, Department of Interior. \*

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

366 was 3 6/24/46

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
✓	St. Vincent Island	Same		✓	
✓	St. Vincent Sound	"		✓	
✓	St. Vincent Point	"		✓	
✓	Gard Island	no longer an island but retain nevertheless etc		✓	
✓	Cape St. George	Same		✓	
✓	Apalachicola Bay	"		✓	
✓	Horse Shoe Cove	HORSESHOE COVE		✓	
✓	<del>Higgins Shoal</del>				
one word	Gulf of Mexico	Same		✓	
✓	St. George Island	"		✓	
	<del>East Bank</del>				
✓	West Pass	Same		✓	
Names approved 12/2/35					
O. Egnel					

REVIEW OF AIR PHOTO COMPILATION T 5508  
1:20,000

Comparison with Graphic Control Surveys

(a) T 6307b, T 6308a, T 6309a, T 6309b (1935), 1:10,000

Only a few slight discrepancies exist between T 5508 and these graphic control surveys, all of which are apparently due to interpretation.

All detail on T 6307b, T 6308a, T 6309a and T 6309b within the limits of the compilation is shown on T 5508 except magnetic meridians and temporary signals.

(b) T 6311a (1935), 1:20,000

T 6311a covers part of the eastern shore of St. Vincent Island and part of the north shore of St. George Island.

As mentioned on pages 4 and 5 of the descriptive report, there are variations in the shoreline of St. George Island of as much as 30 meters. This is due to the difficulty of interpretation. The shoreline cited in case (a), page 4 (Lat. 29° 36', Long. 85° 00' to 85° 01') is shown by a broken line.

All detail on T 6311a within the limits of the compilation is shown on T 5508 except the magnetic meridian and temporary signals.

Comparison with Previous Topographic Surveys

(a) T Misc. 12b (1853), 1:20,000

Misc. 12b is a reconnaissance survey on a local datum. A comparison with this survey is impractical.

(b) T 646 (1857), 1:20,000

T 646 covers part of St. Vincent Island, Sand Island and the western half of St. George Island for T 5508. Sand Island Pass and the New Inlet just east of Horse Shoe Cove as shown on T 646 are no longer in existence. The oyster reef in Apalachicola Bay as shown on the old topographic survey is no longer exposed at low water.

T 5508 is adequate to supersede T 646 for the area covered.

(c) T 698 (1858), 1:20,000

T 698 covers the western half of the air photo compilation. The greater changes are along low sandy beaches and marshy coastline, amounting to as much as 12.5 millimeters. The inlet east of Sand Island, and a series of islands in Apalachicola Bay, as shown on T 698 are no longer in existence. T 5508 is adequate to supersede T 698 for the area covered.

Comparison with Contemporary Hydrographic Surveys

H-5791, H-5793, (1935) 1:10,000

There are no conflicts between this survey and the hydrography.

Comparison with Chart 183, 1:80,000

Corrections to the chart as a result of this survey are discussed under "Comparison with Previous Topographic Surveys" and on page 4 of the descriptive report.

No landmarks have been recommended for the area covered by this compilation.

All aids to navigation are shown, for the area covered by the compilation.

August 15, 1935

A. T. Rannus

*Frank G. Enkine*

REVIEW OF AIR PHOTO COMPILATION NO. T-5508

Chief of Party: M. H. Reese

Compiled by: H.C. Ingerson

Project: Florida Compilation

Instructions dated: June 7, 1934

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)

Yes.

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)

Noted in the report.

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 used.

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 submitted.

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.

Yes.

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)

Noted in the report.

7. High water line on marshy and <sup>sand</sup> ~~barren~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

Yes.

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)

Noted in descriptive report.

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)

Yes. *Submitted by Lieut. C. A. Egner.*

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)

Submitted by Lieut. C. A. Egner.

*None submitted*

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)

Yes.

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)

Noted in descriptive report and indicated on overlay sheet.

13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted. *Adjusted*

Yes.

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

Yes.

15. The drafting is satisfactory and particular attention has been given the following:

Yes.

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;


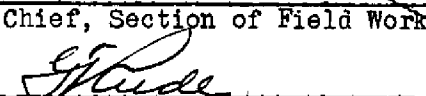
  
M. H. Reese  
Chief of Party

19. Remarks after review in office:

Reviewed in office by: 

Examained and approved:

  
Chief, Section of Field Records  
  
Chief, Division of Charts

  
Chief, Section of Field Work  
  
Chief, Division of Hydrography  
and Topography.

Applied in part to Chs 183 - Oct. 1939 O.S.B.  
" " " " 1114 Oct. 1939 O.S.B.  
to Chs. 1262 Dec. 1939 O.S.B.  
Applied to chart 865 W.A.B. 5/29/46  
" " " 866 W.A.B. 6/24/46