

5513

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

MAY 13 1935

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

AUG 13 1935

Acc. No.

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

## DESCRIPTIVE REPORT

*Topographic* } Sheet No. T-5513  
*Hydrographic* }

State Florida

### LOCALITY

St. George Sound

Dog Island

193 5

### CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

5513

Shoreline and wreck applied to dwp of Ch. 182 July 1939. SK

Applied in part to Ch 1114 - Oct 1939 - HSM

Applied to chart 1261 4/12/43 LHE

Applied to Gulf Coast ~~Chart # 865~~ 2/27/48 WCG ✓ WAB 5/31/46

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-5513

5513

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

General locality.....St. George Sound.....

Locality.....Dog Island.....

Scale.....1:20,000.....Date of <sup>photographs</sup> ~~survey~~ Sent. 19....., 19 34

~~Vessel~~ 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 scale of 1:20,000.

Scale factor 1.00.

- STATISTICS -

on

SHEET, FIELD NO. \_\_\_\_\_, REG. NO. T-5513

PHOTOS, NO. C-116 TO NO. C-121

DATE OF PHOTOGRAPHS 9/19/34 TIME 9:25 a.m.

BY

DATE

FROM TO

ROUGH RADIAL PLOT --

SCALE FACTOR (1.00) --

SCALE FACTOR CHECKED --

PROJECTION E. P. Hernandez, Jr. 4/6/35

PROJECTION CHECKED G. O. Coignet 4/6/35

CONTROL PLOTTED Roger S. French - per E. L. Fitch. 4/8/35

CONTROL CHECKED C. Carter Brown 4/8/35

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED

SMOOTH RADIAL LINE PLOT H. C. Ingelson 4/9/35

RADIAL LINE PLOT CHECKED E. P. Hernandez, Jr.

DETAIL INKED H. C. Ingelson 4/11/35

PRELIMINARY REVIEW OF SHEET E. L. Fitch 5/6/35

TOTAL AREA OF SHEET 32.2 sq. Statute Miles  
AREA OF DETAIL INKED 3.0 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) 17.9 Statute Miles  
LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide) 2.6 Statute Miles

GENERAL LOCATION St. George Sound

LOCATION Dog Island

DATUM North American 1927 (Adjusted)

Latitude 29°47'04.809" (148.1 m.)

STATION Dog Island West 1909-1934

Longitude 84°40'08.333" (223.8 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5513

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

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 a narrow island south of St. George Sound and east of St. George Islands. The south portion of the island is a broad sand beach. The east and west ends and part of the central portion are very marshy with sand ridges extending through the marsh. There are a few small lakes and streams.

The vegetation is mostly pine and brush with a few scrub oaks and palmettos.

On the west end are some sand dunes about ten to fifteen feet high.

There is a derelict barge off a point near the western end of the island in the northwest part, which has caused the point to build out.

The shore line is all sand and is subject to constant change due to tide action, wind and storms.

The marsh areas were all outlined with sand to show that all areas other than marsh are sand.

This sheet was compiled from single lens photographs Nos. C-116 to C-121, taken September 19, 1934, at 9:25 a.m., by the Aero Service Corporation.

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

topographic party is traced in blue ink on the back of the celluloid, for comparison. In some places a difference of a little more than three or four meters was found in the shore line, which is probably due to the changing nature of the coast line or to interpretation of the high water line.

## II. CONTROL:

### (A) Sources.

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

(a) Triangulation by Lieut. George L. Anderson (1934);

(b) Triangulation and plane table control executed by Lieut. C. A. Egner (1934-35).

All control has been computed from the North American 1927 Adjusted Datum.

### (B) Errors.

No errors were found.

### (C) Discrepancies.

No discrepancies were found on this sheet.

## III. COMPILATION:

### (A) Method.

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

### (B) Adjustment of plot.

The scale of the photographs was very close to the scale of the projection, and very uniform. No exceptional amounts of tilt or distortion were encountered.

### (C) Interpretation.

Only graphic symbols approved by the Board of Surveys and Maps (1932) were used on this

sheet, with the addition of the symbol ( ? )  
used to denote brush.

The shore line was easily defined with  
the help of the field inspection party.

(D) Information from other sources.

No information other than that supplied  
by the field inspection party was used.

(E) Conflicting names.

None.

(F) New names.

None.

IV. COMPARISON WITH OTHER SURVEYS:

This sheet is a tracing of an island and there are no  
junctions with other sheets.

In comparing this sheet with topo sheet "K" <sup>163.9a</sup> executed  
by Lieut. C. A. Egner, 1934, the following differences are  
noted:

(a) The extreme northwest tip of the island is shown  
approximately 22 meters further out on this sheet; this  
can be attributed to different interpretation of the high  
water line.

(b) South of Station DOG ISLAND WEST 1909-1934, the topo  
sheet shows two indentations on the Gulf shore line. This  
is probably caused by tide action since pictures were taken.

(c) At Station MIDDY 1935, the topo sheet shows the high  
water line approximately at station mark. Sketch of this  
station by field inspection party shows high water line  
37.3 meters northwest of station, and the high water line  
is shown on this compilation as such.

(d) Some differences exist in the shore line of the lagoon  
at the eastern extremity of the island, no doubt caused by  
tide action on low sand beach.

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 not over 0.3 to 0.5 m.m. in well defined detail of importance for charting and of not over <sup>0.3 to 0.8</sup> 1 m.m. for all other data.*

*H.C.I.*



Survey No. T- 5513

Date. August 7, 1935

## GEOGRAPHIC NAMES

Chart No. 182

## Florida

Diagram 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

[illegible]

REVIEW OF AIR PHOTO COMPILATION NO. T - 5513.

Scale 1:20,000.

Comparison with Graphic Control Survey.

(a) T 6314a (1935) scale 1:20,000.

Covers entire area. Only a few minor discrepancies.  
(See page 4 of report for discussion). ~~For the described stations the positions of the concrete monuments instead of those of the temporary signals are given, plotted.~~

*on T6314 within the area of this compilation*

All detail covering ~~T-5513 on T-6314a~~ is shown on T-5513 except temporary signals and magnetic meridian.

Comparison with Previous Topographic Surveys.

(a and b) T-Misc. 13 (1853) 1:20,000, T-697 (1858 1:20,000.

Numerous changes in shoreline have taken place since these surveys.

The Lighthouse at the west end of Dog Island is no longer in existence.

The bluffs are low sand dunes and are not indicated by the bluff symbol on T-5513.

T-5513 is adequate to supersede T-Misc. 13 and T-697 for the area covered.

Comparison with Contemporary Hydrographic Surveys.

H-5795 (1935) Scale 1:10,000.

Covers only western part of the area. There are no conflicts with the hydrography.

Comparison with Charts.

Chart 182, Scale 1:80,000.

Comparison with the chart is covered under the comparison with previous topographic surveys.

There are no recommended landmarks or aids to navigation available in this office at this time for this area.

8/7/35.

*Frank F. Eakin*

Approved  
K.T. Adams

*H. D. Reed*

H. D. Reed.

*B. J. Jones*

REVIEW OF AIR PHOTO COMPILATION NO. T-5513

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 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)

No such additional surveys were necessary.

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 report.

7. High water line on marshy and <sup>sandy</sup> ~~mangrove~~ 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, ~~run by, and are based on~~ ~~marks~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

See 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, furnished 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) *note in office Aug 7, 1935*

Furnished by Lieut. C. A. Egner.

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)

Noted in descriptive report.

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)

This sheet is a tracing of an island and there are no junctions with other sheets.

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: *Frank F. Endline*

*B. G. Jones 8/7/35*

Examined and approved:

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

*B. Borden*  
Chief, Section of Field Work  
*W. H. Hilde*  
Chief, Division of Hydrography  
and Topography.