

5506

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JUN 10 1935

Acc. No. _____

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

OCT 10 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-5506
~~Hydrographic~~

State Florida

LOCALITY

Joseph Bay
St. Vincent Sound
Port St. Joe to St. Vincent Island.
St. Vincent Sound to St. Josephs Bay

1935

CHIEF OF PARTY

M. H. Reese

Applied to CHA 1263 - March 1938 J.S.B.
" in joint to CHA 183 - Oct. 1939 J.S.B.
" " " " 1214 Oct. 1939 J.S.B.
" " " " 1262 Dec 1939 J.S.B.
Applied to chart 866 6/25/46 W.A.B.
" " " 867 7/10/46 "

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-5506

State..... Florida

General locality..... Joseph Bay
St. Vincent Sound

Locality..... Port St. Joe to St. Vincent Island
St. Vincent Sound to St. Josephs Bay

Scale..... 1:20,833 ⁰⁰⁰ photos Date of ~~survey~~ 9/6 & 9/13, 1934

~~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..... L. L. Wright

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

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

Instructions dated..... June 7, 1934

Remarks: Compiled on scale of 1:20,833; enlarged and printed
by photolithography on scale of 1:20,000. Scale factor 0.96.

- STATISTICS -

on

SHEET, FIELD NO. 948, REG. NO. T-5506
 PHOTOS, NO. 1064 TO NO. 1070
 DATE OF PHOTOGRAPHS 9/6/34 TIME 8:35 a.m.
9/6/34 TIME 7:50 a.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	--	
SCALE FACTOR (0.96)	--	
SCALE FACTOR CHECKED	--	
PROJECTION	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	2/4/35
PROJECTION CHECKED	H. C. Smith	2/4/35
CONTROL PLOTTED	<i>S. S. Gill</i> S. S. Gill	2/5/35
CONTROL CHECKED	<i>H. A. Butters, Jr.</i> H. A. Butters, Jr.	2/5/35
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
	No. Flight - H. C. Smith	2/9/35
SMOOTH RADIAL LINE PLOT	<i>E. P. Hernandez, Jr.</i> So. Flight - E. P. Hernandez	2/15/35
RADIAL LINE PLOT CHECKED	<i>M. H. Reese</i> M. H. Reese	2/15/35
DETAIL INKED	<i>L. L. Wright</i> L. L. Wright	3/30/35
PRELIMINARY REVIEW OF SHEET	<i>L. S. Fitch</i> L. S. Fitch	4/17/35

TOTAL AREA OF SHEET 133.0 sq. Statute Miles
 AREA OF DETAIL INKED 90.0 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)
40.0 Statute Miles
 LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
63.3 Statute Miles

GENERAL LOCATION Joseph Bay
St. Vincent Sound
 LOCATION Port St. Joe to St. Vincent Island.
St. Vincent Sound to St. Josephs Bay

DATUM North American 1927 Datum

STATION Joe - 1934 Latitude 29°49'18.455" (568.2 m.)
 (Adjusted) Longitude 85°18'28.552" (766.6 m.)

Rosin, 1935
(unadjusted)

Lat. 29°45'31.451" (969.35 m.)
Long. 85°15'31.720" (852.50 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5506

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

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.

The sheet is composed of a roughly triangular area extending from Port St. Joe southward to the lower end of St. Josephs Bay and from St. Josephs Bay eastward to about the middle of St. Vincent Island.

Florida Highway No. 10 roughly parallels the entire coast line, from Port St. Joe southward to the Gulf Coast, thence eastward along St. Vincent Sound. An older road, to the interior of the main road, follows the same course, except on the south, where it deviates and cuts across to Indian Lagoon. Florida Highway No. 6 comes in from the northeast and terminates at Port St. Joe. There are many roads and trails in the interior. The A. & N. R. R. cuts into the area in the northeast, follows Columbus Bayou for a short distance, then cuts across to Port St. Joe.

The interior is mostly swampy in character. There is practically no cultivation, but occasional turpentine settlements exist. The west coast line is marshy in spots with tidal flats to the east of Black's Island. The coast line along St. Vincent Sound is mostly marshy, with scattered palms and pines and numerous oyster beds, mostly near Indian Lagoon. The Gulf coast line on the south is a wide sandy beach, fringed with palms, and at low tide this beach, from Indian Pass westward, is passable for automobiles.

This sheet was compiled from photographs Nos. 948 to 978, inclusive, taken September 6, 1934, 8:35 a.m., and from photographs Nos. 1064 to 1070, inclusive, taken September 13, 1934, 7:50 a.m., all with the Aero Service Corporation's five-lens camera HUI-33.

The difference between high and low water lines is so small (mean range of tide 1.4 - 1.5 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:

(a) Triangulation by Lieut. George L. Anderson, March-April 1934 and December 1934 - January 1935.

(b) Triangulation by Lieut. C. A. Egner, December 1934 - January 1935.

(B) Errors.

No errors were found.

III. COMPILATION:

(A) Method.

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

(B) Adjustment of plot.

The scale of photographs was practically uniform and no more than the usual amount of tilt and distortion was encountered.

There was slightly more than the usual adjusting made in tracing the west shore line area between Latitude $29^{\circ}45'$ and Latitude $29^{\circ}47'$ because it was not possible to obtain enough good intersections for the radial plot of this area, the area falling out in the wings of photographs of both flights. The above applies also to the area on St. Vincent Sound from Oyster House No. 11 eastward to the tracing limits of the sheet.

(C) Interpretation.

Only the graphic symbols approved by the Board of Surveys and Maps (1932) were used on this sheet, except for the symbol (ζ) used to denote brush.

The east shore line of St. Joseph Bay southward from Port St. Joe is composed of tidal flats, marsh, small mud islands and many small creeks. It was difficult for the field inspection party to show

accurately the high water line, and consequently the marsh symbol has been shown in an attempt to clarify the interpretation of the photographs.

(D) Information from other sources.

Positions of ⁷⁰⁶⁶hydro stations along St. Vincent Sound were taken from Lieut. C. A. Egner's aluminum sheets and transferred to the compilation.

(E) Conflicting names.

There are no conflicting names on the charts of this area.

(F) New names.

The names "Nine Mile" and "Eleven Mile" are local names given to oyster men's settlements along St. Vincent Sound. The names were originally used by the oystermen because the settlements were nine and eleven miles, respectively, from Apalachicola. The field inspection party reported the names to be in good local usage and they are recommended for adoption.

"Columbus Bayou", the name of a bayou running into Lake Wimico, was obtained by the field inspection party from the U. S. Army Engineers who have worked in this area for the past two years and who are very well acquainted with all local names.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets to the northeast, northwest, southwest, and southeast, Nos. T-5505, T-5504, T-5507 and T-5508, respectively, are satisfactory.

This compilation has been compared with the plane table sheets executed by Lieut. C. A. Egner in Indian Lagoon and St. Vincent Sound, 1934-35, and found to be in agreement. Some slight differences of high water line, along the Gulf coast, caused by misinterpretation, have been checked and adjusted.

V. LANDMARKS:

Landmarks of value to navigation in the area from Indian Lagoon to the eastern limits of this sheet are submitted by the hydrographic party of Lieut. C. A. Egner.

Landmarks in St. Joseph Bay are submitted on Form 567.

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: *L. L. Wright*
L. L. Wright,
Draftsman.

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

*This survey is believed to have an probable
~~accuracy~~ error of not more than .3 to .5 mm for interested
points and not more than .3 to .8 mm for all other
detail.*

Added Jc

8-13-35

518 (35)

Pensacola, Florida.

June 3, 1935

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Chief of Party.

[illegible]

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

MEMORANDUM TO ACCOMPANY SHEET NO. T-5506

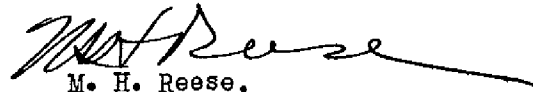
The marked topographic stations shown on this sheet were established after field inspection was made of this section and they are shown on the compilation as scaled from the aluminum sheet. In all cases where there was rodged shoreline, it has been checked against the compilation.

The hydrography of St. Vincent Sound was done on a scale of 1:10,000. This party furnished the shore line to the hydrographic party on the scale of 1:10,000 by enlarging the compilation. To make sure that there were no errors in topographic stations which were established, when the field inspection was made, measurements were taken to the high water line to serve as a check when the shore line was transferred to the hydrographic sheet. This check was followed throughout the several hydrographic sheets on which the shore line was traced. As far as can be ascertained, practically no errors exist between the compilation and the field hydrographic sheet, as no error developed in plotting the hydrographic work. There was, however, a difference at Station LONE PALM which was caused by this station being plotted 10 meters in error on the aluminum sheet, thereby shifting the position of the Island as rodged in by the topo party. This work has been verified by the field party.

A large number of oyster beds exist in St. Vincent Sound and they are shown with broken lines, and the shapes of these oyster beds have all been verified by the hydrographic party. Shore line in the vicinity north of Indian Pass is very indefinite as there are mud flats, marsh, and oyster beds. The marsh and other information which is shown in that section has been verified for this party by the hydrographic party.

Due to the various checks obtained on the work of the compilation in St. Vincent Sound, it is considered that the information shown on the compilation is correct.

The triangulation stations shown in St. Vincent Sound were furnished this party by Lieut. Egner on the North American 1927 Datum. The factor for reducing these stations to the Datum was applied by him before transmitting the positions to this party. The control for the remainder of the sheet was executed by Lieut. Anderson and was computed from the North American 1927 Datum.


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

Survey No. T-5506

GEOGRAPHIC NAMES

Date. July 13, 1935

Chart No. 183 & 184

Diagram No. _

FLORIDA

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 T 5506

Comparison with Graphic Control Surveys.

(a) T-6307 (a & b) (1935), scale 1:10,000 covers area adjacent to St. Vincent Sound including Indian Lagoon and the western end of St. Vincent Island. No discrepancies. For further discussion see p. 4 Descriptive Report of T 5506. All detail on T-6307 within the area of T-5506 is shown on T-5506 except the magnetic declination and temporary plane table stations.

Comparison with Previous Topographic Surveys.

(a) T-1065 (1868) Scale 1:20,000. Covers western part of T-5506. Shows only area adjacent to the water. There have been some changes in the shoreline ranging up to about 150 m. and especially noticeable in the beach along Indian peninsula.

All bluffs now in existence are shown on T-5506. The high spots shown in the southern part of T-1065 have disappeared. T-5506 is considered adequate to supersede T-1065 for the area covered.

(b) T-698 (1858) Scale 1:20,000. Covers eastern part of T-5506. Shows only area adjacent to water. There are differences in the shoreline of the two sheets ranging up to about 150 m. along the north shore of St. Vincent Island.

Several small islands shown in St. Vincent Sound on T-698 have disappeared.

All bluffs now in existence are shown on T-5506. T-5506 is considered adequate to supersede T-698 for the area covered.

Comparison with Contemporary Hydrographic Survey.

H-5791 (1935) Scale 1:10,000 covers eastern part of T-5506. No conflicts with the hydrography were found.

There is a dock at the west end of St. Vincent Island which is not shown on H-5791.

Comparison with Chart.

Chart No. 183, scale 1:80,000 covers all area on T-5506 adjacent to water.

For further discussion see "Comparison with Previous Topographic Surveys" this review.

Landmarks and Aids to Navigation.

Chart Letter 518 (1935)

Landmarks were obtained from Descriptive Reports on T-5506 and T-6307. There are no aids to navigation in this area.

Remarks.

The reference station of T-5506 was changed from Joe 1934, an adjusted station, to Rosin (1935) an unadjusted station.

8-13-35

Gaul G. Kiskine

H. D. Reed Jr

H. D. Reed.

W. J. Jones

Approved

K. T. Adams

REVIEW OF AIR PHOTO COMPILATION NO. T-5506

Chief of Party: M. H. Reese

Compiled by: L. L. Wright

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 supplementary surveys 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 were 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)

Mentioned in report.

7. High water line on marshy and ^{sandy} ~~mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

See III (c) of report.

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 ^{high}~~low~~ water lines, ~~reefs, coral reefs and~~
~~reefs~~, and legends pertaining to them is satisfactory. (Par.
36, 37, 38, 39, 40, 41)

Mentioned in 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)

By Lieut. C. A. Egner from Indian Lagoon eastward.

By this party for remainder of sheet.

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)

By Lieut. C. A. Egner from Indian Lagoon eastward.

By this party in St. Joseph Bay.

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)

Yes.

13. The geographic datum of the compilation is N. A. 1927 and the
reference station is correctly noted. (Unadjusted)

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

Yes.

15. The drafting is ^{fair}~~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 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.
- 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 G. Eukine* *W. J. Jones*

Examained and approved:

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

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