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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-5503
~~Hydrographic~~ } T-5504

State Florida

LOCALITY

ISSD3 Wetappo Creek

T-5504

St. Joseph Bay

Beacon Hill and Vicinity

1934 ⁵

CHIEF OF PARTY

M. H. Reese

T. 5503-5504 - applied to Chh. 1263 - Mar. 1938 - JKS.
" " " " " 1214 Oct 1939 JKS.

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.

dia 184

REGISTER NOS. T-5504 & T-5503.

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

General locality.....~~St. Joseph Bay~~
Intracoastal Waterway

Locality.....~~Wetumpka River to vicinity of Port St. Joe.~~
photographs

Scale.....~~1:20,833~~⁴⁰⁰.....Date of survey.....Sept. 6 & 13....., 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.....S. S. Gill.....

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 on scale of 1:20,833. Enlarged and printed
on scale of 1:20,000 by Photolithography. Scale factor 0.96.

T 5503

*~~Vicinity of Wetumpka Bay~~
~~Wetumpka River~~
Creek*

T 5504

*St Joseph Bay
Beacon Hill and Vicinity*

- STATISTICS -

on

SHEETS, FIELD NO. _____, REG. NOS. T-5503 & T-5504

PHOTOS, NO. 1071 TO NO. 1091
894 913
 DATE OF PHOTOGRAPHS 9/13/34 TIME 7:50 a.m.
9/6/34 8:15 a.m.

	BY	DATE
		FROM TO
ROUGH RADIAL PLOT	<i>S. S. Gill</i> S. S. Gill	1/23/35
SCALE FACTOR (0.96)	<i>S. S. Gill</i> S. S. Gill	1/23/35
SCALE FACTOR CHECKED	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	1/23/35
PROJECTION	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	1/25/35
PROJECTION CHECKED	<i>M. H. Reese</i> M. H. Reese	1/25/35
CONTROL PLOTTED	<i>S. S. Gill</i> S. S. Gill	1/28/35
CONTROL CHECKED	<i>H. A. Butters, Jr.</i> H. A. Butters, Jr.	1/28/35
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<i>E. P. Hernandez, Jr.</i> <i>H. C. Smith</i> H. C. Smith	1/29 - 1/4/35
RADIAL LINE PLOT CHECKED	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	1/4/35
DETAIL INKED	<i>S. S. Gill</i> S. S. Gill	2/12 - 2/20/35
PRELIMINARY REVIEW OF SHEET	<i>E. L. Fitch</i> E. L. Fitch	4/26/35

total 142.9

AREA OF SHEETS ~~130~~ sq. Statute Miles

AREA OF DETAIL INKED 130 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)
25 Statute Miles

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

GENERAL LOCATION St. Joseph Bay

Intracoastal Waterway

LOCATION from Wetappo River to vicinity of Port St. Jos.

DATUM North American 1927 (Adjusted)

STATION Consort 1860-1935-

Latitude 29°54'54.809" (1687.6 m.)
 Longitude 85°22'40.613" (1089.4 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEETS NOS. T-5503 & T-5504

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The information used in the compilation of these sheets was obtained from the notes and sketches on the field photographs and from members of the field inspection party.

The land area of these sheets consists of cut over pines and low swamp land. There are two small settlements known as Beacon Hill and Overstreet. Sand is found along the Gulf Coast.

The U. S. E. stations along the Intracoastal Waterway are shown with a ~~8.5 mm. circle.~~ Δ

The range of tide in this area is 1.4 feet. The difference between high and low water is so small that the high water line was used in tracing the shoreline on these sheets. This was indicated on the photographs by the field inspection party.

These sheets were compiled from photographs taken by the Aero Service Corporation, five lens camera H.U.I. 33; Photographs Nos. 1071 to 1091 running in a northwest direction along the Gulf Coast, and Nos. 894 to 913 parallel to the other flight.

II. CONTROL:

(A) Sources.

The following source of control was used in the compilation of these sheets:

- (a) Triangulation by Lieut. George L. Anderson, 1934-1935.

The geographic positions of these stations were computed ~~on~~ ^{from} the North American 1927 Datum (adjusted).

No control stations established by other organizations were used in the compilation of these sheets.

The U. S. Engineers' traverse along the Intracoastal Waterway was tied into our triangulation by Lieut. George L. Anderson. The geographic positions and descriptions were submitted by him.

(B) Errors.

The control used in the compilation of these sheets was found to be adequate for the radial line plot.

(C) Discrepancies.

No discrepancies in the geographic positions of the control stations were found.

III. COMPILATION:

(A) Method.

The usual five lens photograph radial line method of plotting was used in the compilation of these sheets.

(B) Adjustment of plot.

The photographs in these strips appear to be free from excessive tilt and scale fluctuations, and the radial line plot required no unusual adjustments.

(C) Interpretation.

Only the graphic symbols approved by the Board of Surveys and Maps (1932) were used in the compilation of these sheets, except the symbol (§) that was used to denote brush.

The highway along the Gulf Coast is shown slightly exaggerated so that it would not appear as a solid blotch when photographed by the photolithographic process.

(D) Information from other sources.

There was no information taken from any sources other than those mentioned above.

(E) Conflicting names.

There are no conflicting names in this area. There is a small beach settlement on the coast that is known as Beacon Hill; also a small settlement on the Intracoastal Waterway known as Overstreet. These names with "The Kink" were obtained by the field inspection party. The name "North Prong" was obtained from the U. S. Engineers.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of these sheets with sheets to the East, T-5505 and T-5506, and to the West T-5515 and T-5516, are satisfactory.

V. LANDMARKS:

The list of landmarks of this area is submitted by Lieut. Wm. D. Patterson.

VI. RECOMMENDATIONS FOR FURTHER SURVEYS:

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

Submitted by: *S. S. Gill*
S. S. Gill,
Draftsman.

M. H. Reese
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 intersection points and 0.3 to 0.8 m.m. for other details.
T.G.L.

MEMORANDUM TO ACCOMPANY SHEET NO. T-5503 - 04.

In comparing this sheet with Topo Sheet ^{T-62-79} A (Lieut. Wm. D. Patterson's) of this area, several differences were found.

Between Stations R.O.W. 79A and R.O.W. 77, the canal is to the west of that as rodded by the topo party by about 10 meters. At Station R.O.W. 77 there is a slight variation from the topo sheet. This has been traced on the celluloid as the picture shows it, and cannot be changed.

Between Stations R.O.W. 48 and 47B there is a difference of about 15 meters, but as there are no rodded positions for about 450 meters the shore line as traced from the photos is assumed as correct. This is also true between Stations R.O.W. 47 and 46, but the difference is only about 5 meters.

The remainder of the canal checks within 2 or 3 meters of the rodded positions and is assumed as being correct.

It will be noted that a portion of the Intracoastal Canal as shown on the present charts is about one and a half miles out of position.



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

Survey No. T-5503

Date August 12, 1935

GEOGRAPHIC NAMES

Chart No. 184

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]

Date. August 12, 1935

Chart No. 184

FLORIDA

Under investigation. Q

[illegible]

REVIEW OF AIR PHOTO COMPILATION T-5503

Scale 1:20,000

Comparison with Graphic Control Surveys.

(a) T-6279 (1935) 1:20,000. The only considerable differences between T-6279 and this compilation amounts to 10 to 15 meters for short sections of shore line at lat. $30^{\circ}00'$, long. $85^{\circ}22'$, and lat. $29^{\circ}54\frac{1}{2}'$, long. $85^{\circ}17'$. The compilation is accepted as recommended in a descriptive report of T-6279.

(b) T-6280 (1935) 1:10,000. The only differences exceeding 5 meters in location of shore line between T-6280 and this compilation are for short distances at the southern end of Wetappo River where the shoreline differs by 10 to 15 meters. These differences are due to interpretation of indefinite shore line and the compilation is accepted. Δ Station U. S. E. 1 (1934) on T-6280 is the same position as Δ R. O. W. 86 U. S. E. (1935), as shown on the compilation.

(c) All detail on T-6279 and T-6280 within the area of the compilation is shown on the compilation except the magnetic declination and the temporary topographic stations.

Comparison with Previous Topographic Surveys.

(a) T-477 (1855) 1:20,000. T-477 covers only a small section at the western end of this compilation. The largest changes have occurred in Crooked Island which is considerably changed in size and shape and is now connected to the mainland, Little East River Pass being closed.

(b) T-1091 (1869) 1:20,000. T-1091 covers all of the coastline appearing on this compilation. The largest changes have occurred from lat. $29^{\circ}56\frac{1}{2}'$, long. $85^{\circ}24\frac{1}{2}'$ west to St. Andrew Point where the shoreline has built out 50 to 300 meters since 1869. Numerous sand dunes and several bluffs shown on T-1091 were not compiled by the field party. These have been added to the compilation from the photographs in this office.

This compilation, T-5503:
(c) T-5503, this compilation, is complete and adequate to supersede the sections of T-1091 and T-477 which it covers.

Comparison with Contemporary Hydrographic Surveys.

H-5780 (1935) 1:10,000. No discrepancies. A dock at lat. $32^{\circ}02.6'$, long. $85^{\circ}23.5'$ has been added to H-5780 from this compilation.

Comparison with the Charts.

(a) Chart 184. The largest correction to chart 184 as a result of this survey is the relocation of the intracoastal waterway which is about 1 1/4 miles ~~east~~ ^{west} and ~~north~~ ^{south} of the position now shown on the chart.

Aids to Navigation.

No lights or beacons are shown on the present chart of 184 within the limits of this compilation. New beacons recommended in chart letter 467⁽¹⁹³⁵⁾ within the area of this compilation are shown on the compilation.

Landmarks.

No landmarks appear on the present chart of 184 within the limits of this compilation and none have been recommended by the new graphic control surveys or by this compilation.

Remarks.

A general description of the area covered by this compilation is given in the preceding descriptive report, T-5503. For additional description of the intracoastal waterway see report T-6279.

July 29, 1935
J. O.

Frank H. Enslin

T. Goshen

B. G. Jones

Approved
K. T. Adams

REVIEW OF AIR PHOTO COMPILATION T 5504

Scale 1:20,000

Comparison with graphic control surveys

(a) T 6279 (1934), scale 1:20,000

The only detail shown on T 6279 within the limits of T 5504 is the shoreline of the Intracoastal Waterway and the control stations along that waterway.

A difference of 20 meters exists in the determination of the shoreline at $29^{\circ} 54 \frac{1}{2}'$, $85^{\circ} 17'$ between T 6279 and T 5504. The compilation is accepted as recommended in descriptive report, T 6279. All detail on T 6279 within the limits of the compilation is shown on T 5504 except the magnetic declination.

Comparison with previous topographic surveys

(a) T 1065 (1868), scale 1:20,000

The only detail shown on T 1065 within the limits of T 5504 is the shoreline of St. Joseph Bay in the eastern half of T 5504.

The only change worthy of note is that the stream running parallel to the shoreline has shortened since 1868. Two sand dunes are shown on T 1065 on one of which the present State Highway 10 has been built. *unnecessary.*

T 5504 is adequate to supersede T 1065 within the limits of this compilation.

(b) T 1091 (1869), scale 1:20,000

The only detail covered by T 1091 and included in T 5504 is the St. Joseph Bay shoreline in the western half of T 5504.

No changes in shoreline are noted. Several bluffs are shown on T 1091 but on T 5504 only the high bluff at Beacon Hill is shown.

T 5504 is adequate to supersede T 1091 except for the bluffs noted above.

Comparison with contemporary hydrographic surveys

None.

Comparison with charts

Chart No. 184, scale 1:80,000

No appreciable change in shoreline. See discussion under comparison with previous topographic surveys.

The Intracoastal Waterway as shown on chart No. 184 is about 1 3/4 miles north of its true position.

Landmarks

No landmarks appear on the present chart within the limits of this compilation and none have been recommended by the graphic control surveys or this compilation. *all lights and beacons on the chart (for this area) are shown in the compilation.*

August 12, 1935

T. Goshen

Frank H. Eschire

T. Goshen
v. B. G. Jones

Approved
K.T. Adams

REVIEW OF AIR PHOTO COMPILATION NOS. T-5503 & T-5504

Chief of Party: M. H. Reese

Compiled by: S. S. Gill

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)

The above has been complied with.

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)

The above has been complied with.

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)

There were no other surveys.

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)

There were no blueprints or maps from other sources.

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 attached memo discussing differences.

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)

The above is discussed in the descriptive report.

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

High water line was drawn as indicated on photographs by field inspection party.

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, ~~rafs, local reefs and rocks, and legends pertaining to them~~ is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Due to small difference in low and high water marks and to small scale of photographs, only the high water line is shown.

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)

These are submitted by hydrographic party.

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)

These are submitted by hydrographic party.

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)

There are no bridges of importance.

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)

Mentioned in descriptive report and shown on overlay tracing.

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

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

Junctions to the East ^{and West} are satisfactory.

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 G. Entine - B.G. Jones*

Examined and approved:

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

F.S. Borden
Chief, Section of Field Work
G. W. Munde
Chief, Division of Hydrography
and Topography.