

5515

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAY 13 1935

Acc. No. _____

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

SEP 5 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-5515
~~*Hydrographic*~~

State Florida

LOCALITY

~~East Bay.~~
VICINITY OF ST. ANDREW BAY
~~Eastern end of East Bay~~
EASTERN PART OF EAST BAY
~~from approx. Long. 85°30.5'~~
~~to Wetumpka River.~~

193 5

CHIEF OF PARTY

M. H. Reese.

U. S. GOVERNMENT PRINTING OFFICE: 1934

Applied to CHN. 1763. Mar. 1938- H.S.O.
Applied to Chart 868 Aug 1946 WAB.

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-5515 124

State Florida

General locality East Bay VICINITY OF ST ANDREW BAY
Eastern end of East Bay EASTERN PART OF EAST BAY
Locality from approx. Long. 85° 30.5' to Wetappe River.

Scale 1:10,000 photographs July 21, 1934
1:10,638 Date of Survey

Wetappe Air Photo Compilation Party No. 24, Pensacola, Fla.

Chief of party M. H. Reese

Surveyed by See data sheet in descriptive report.

Inked by George E. Townsend

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 1:10,638. Enlarged and printed
by photolithography on scale of 1:10,000. Scale factor 0.94.

- STATISTICS -

on

SHEET, FIELD NO. _____, REG. NO. T-5515

PHOTOS, NO. 761 779 TO NO. 774 798

DATE OF PHOTOGRAPHS 7/21/34 TIME 8:45 a.m.
9:00 a.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	<i>E.P. Hernandez Jr.</i> <i>H.C. Ingerson</i> E. P. Hernandez, Jr. & H.C. Ingerson	2/23/35
SCALE FACTOR (0.94)	<i>E.P. Hernandez Jr.</i> <i>S.S. Gill</i> E. P. Hernandez, Jr. & S. S. Gill	2/23/35
SCALE FACTOR CHECKED	<i>E.P. Hernandez Jr.</i> E. P. Hernandez, Jr.	2/23/35
PROJECTION	<i>E.P. Hernandez Jr.</i> E. P. Hernandez, Jr.	2/25/35
PROJECTION CHECKED	H. C. Smith	2/25/35
CONTROL PLOTTED	<i>C. Carter Brown</i> C. Carter Brown	2/25/35
CONTROL CHECKED	<i>H. A. Bitters, Jr.</i> H. A. Bitters, Jr.	2/26/35
TOPOGRAPHY TRANSFERRED	<i>R.S. Poor</i> R. S. Poor	2/28/35
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<i>R.S. Poor</i> R. S. Poor	3/4 - 16/35
RADIAL LINE PLOT CHECKED		
DETAIL INKED	<i>George E. Townsend</i> George E. Townsend	3/19 - 4/15/35
PRELIMINARY REVIEW OF SHEET	<i>E.L. Ritch</i> E. L. Ritch	5/2/35.

TOTAL AREA OF SHEET 30 sq. Statute Miles
 AREA OF DETAIL INKED 21 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)
19 Statute Miles
 LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
41 Statute Miles

GENERAL LOCATION Vicinity of St. Andrew Bay
East Bay

LOCATION Eastern end of East Bay from approx. Long. 85°30.5' to Wetzapo River

DATUM North American 1927 (Unadjusted) Latitude 30° 02' 57.230" (1762.3) [85.2]
30° 01' 44.616" (1373.8 m.)
 STATION U.S.E. 14 - 1934 Longitude 85° 26' 30.991" (830.3) [777.0]
85° 27' 25.130" (673.3 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5515

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

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

The land area represented on this sheet consists of cut-over pines and low swamp land. Two small settlements exist, one known as Allanton; the other as ~~Wettapo~~.

Wetappo

Beacons and U.S.E. stations in and along East Bay are shown with a 2.5 mm. circle.

The range of normal tide along the shore of East Bay is 1.4 feet. Only the mean high water line, as indicated by field inspection, was shown.

The compilation of this sheet was accomplished by using photographs taken by the Aero Service Corporation with five-lens camera H.U.I.-33; photographs Nos. 761 to 774 running in a northeast direction along East Bay; and Nos. 779 to 798 running parallel to the other flight, though opposite in direction.

II. CONTROL:

(A) Sources.

Triangulation by Lieut. Wm. D. Patterson, 1934-1935, is the source of control used in the compilation of this sheet. The geographic positions of these stations were computed on the North American 1927 Datum (Unadjusted).

The U. S. Engineer's traverse along East Bay was tied into our triangulation by Lieut. Patterson. Geographic positions and descriptions were submitted by him.

(B) Errors.

In compiling this sheet, the control was found adequate for the radial line plot.

(C) Discrepancies.

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

III. COMPILATION:

(A) Method.

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

(B) Adjustment of plot.

Apparently the photographs were free from excessive tilt and scale fluctuations so that no unusual adjustments were required in the radial plot.

(C) Interpretation.

The graphic symbols used are the ones approved by the Board of Surveys & Maps, 1932, except the symbol ({) which was used to denote brush.

(D) Information from other sources.

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

(E) Conflicting names.

No conflicting names appear in this area.

(E) New names.

The names California Bayou, Richard~~s~~ Bayou, Sandy River, Bull Bayou, and Horseshoe Bayou were obtained from topographic sheets.

The field party found that the following names were used in the localities designated on the overlay sheet: Bull Point, Lathrop Bayou, Lathrop Point, and Murray Bayou.

On the sheet appear the following names obtained from U.S. C. & G.S. Chart No. 184: the settlement names of Allanton and Wettapo; Harrison Bayou and Sand River.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets to the West, T-5518; to the East, T-5503; and to the South, T-5516; are satisfactory.

In comparing this compilation with topographic work done by Lieut. Wm. D. Patterson in the early part of 1935, the following differences are noted:

In Lathrop Bayou, at a point slightly southeast of Longitude 85°26' and Latitude 30°02', there is a discrepancy of about 40 meters with the topographic data. The radial plotting here has been checked carefully and the shore line could not be indicated in any other position than as shown. *Air Photo location proved by # 5180.* T-6280

A discrepancy of about 10 meters appears along the shore line northwest of Longitude 85°29' and Latitude 30°03' and south of Richards Bayou. The radial plot is accurate here and the field party's investigation substantiates the fact that the line is correct as drawn. T-6282

The north shore of Richards Bayou west of Station DICK (1934) and southeast of U.S.E. 26, does not check topographic material by about 10 meters. The radial plot is satisfactory, and the field inspection party has indicated the high water line as shown. *30°03 $\frac{2}{3}$, 85°29 $\frac{1}{2}$* T-6282

There is a discrepancy of about 20 meters in the shore line at, approximately, Longitude 85°29.5' and Latitude 30°05', almost due north of topo station GRE. No change could be conscientiously made in the drafting at this point. T-6282

At several points in California Bayou located, approximately, at Longitude 85°29.5' and Latitude 30°05.5', there are disagreements with the topo high water line. The radial plotting was carefully checked and after investigation no change could be made for better agreement. T-6282

The last two bayous at the western limit of the sheet, approximately Longitude 85°30' and Latitude 30°05.5', have discrepancies in the shore line varying from 5 to 25 meters. Careful checking of radial plot here and field inspection indicate that the shore line as shown is probably correct. T-6282

A 25-meter discrepancy in shore line is apparent at a point northeast of Station FOX in the approximate vicinity of Longitude 85°27' and Latitude 30°03'. No alteration could be made here. T-6280

The shore line northwest of Station SANDY at, approximately, Longitude $85^{\circ}26.5'$ and Latitude $30^{\circ}03.75'$ fails to check topo work by about 10 meters. The radial plotting was gone over and no different shore line could be drawn. T-6280

The two islands and two long peninsulas located at, approximately, Longitude $85^{\circ}26'$ and Latitude $30^{\circ}04'$, in Harrison Bayou, have discrepancies of about 10 meters around their shores. No change could be made after checking the radial plotting. T-6280

The shore line from Station CHIM (1934) to U.S.E. 10 varies with topo work from 5 to 10 meters. After a careful check of the radial plot, no change could be made. $30^{\circ}03', 85^{\circ}25'$ T-6280

On both sides of the mouth of Sand River, in Horseshoe Bayou, in the vicinity of Longitude $85^{\circ}24'$ and Latitude $30^{\circ}03'$, there is a discrepancy of about 10 meters in shore line with topographic data. Careful checking of radial plot indicates that the shore line is correct as shown. T-6280

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, this sheet is complete in all detail of importance for charting purposes, and no additional survey is required.

George E. Townsend
Submitted by: George E. Townsend,
Draftsman.

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

MEMORANDUM TO ACCOMPANY SHEET NO. T-5515.

The control used on this sheet was established by the hydrographic party and, as a result, the northern limits of the sheet have no control at all. In view of this deficiency, the detail in the northern limit of this sheet is subject to a small error.

The radial line plot was carefully made and checked, but at the same time I cannot possibly say that the detail in the northern limits is correct as drafted. Also, the photographs of this section were somewhat indistinct.

*Graphic Control Surveys
by planetable.*

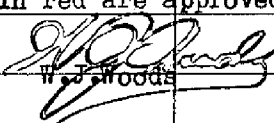
M. H. Reese
M. H. Reese,
Chief of Party, C. & G. S.

Survey No. T-5515

Chart No. 184

Diagram No.

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>California Bayou</u>	✓			
	<u>Sandy Creek</u>	✓			
	<u>Richard Bayou</u>	✓			
	<u>Wet^sppo</u>	✓			
	<u>Horseshoe Bayou</u>	✓			
	<u>Murray Bayou</u>	✓			
	<u>Allanton</u>	✓			
	<u>Bull Point</u>	?			
	<u>Lathrop Point</u>	✓			
	<u>Lathrop Bayou</u>	✓			
	<u>Bull Bayou</u>	✓			
	<u>East Bay</u>				
Names underlined in red are approved.					
					

REVIEW OF AIR PHOTO COMPILATION T-5515

Scale 1:10,000.

Comparison with Graphic Control Surveys.

(a, b, & c) T-6280 (1935) 1:10,000, T-6281 (1935) 1:10,000,
T-6282 (1935) 1:10,000.

T-6280 covers the eastern third of T-5515.

T-6281 covers the north shoreline of East Bay
from triangulation No. 24 (U.S.E.) to
triangulation No. 18 (U.S.E.) on T-5515.

T-6282 covers the northern and eastern shore-
line of East Bay from California Bayou
to Richard Bayou on T-5515.

Numerous discrepancies are noted between these planetable surveys and T-5515. A list of the major differences are given on pages 4 & 5 in this report. Examination of the photographs in a few cases showed the planetable surveys to be obviously in error. Since the Compilation Party has replotted the photographs in each of these cases, the shoreline as shown by T-5515 is accepted as correct.

All detail on T-6280, T-6281 and T-6282 within the limits of the air photo compilation is shown on T-5515 except magnetic meridians, temporary stations and as mentioned above.

Comparison with Previous Topographic Survey.

(a) T-1147b (1870) 1:20,000.

T-1147b covers all the shoreline of East Bay and the several bayous as shown on T-5515. Comparison between T-1147b and T-5515 shows general agreement in shoreline, but many detailed changes. The air photo compilation is adequate to supersede T-1147b.

Comparison with Contemporary Hydrographic Surveys.

(a) H-5780 (1935) 1:10,000.

There are no conflicts between H-5780 and H-5515.

(b) H-5781 (1935) 1:10,000.

There are no conflicts between H-5781 and T-5515.

Comparison with Chart 184, 1:80,000.

The chart comparison is covered in the discussion under "Comparison with Previous Topographic Surveys".

Landmarks.

There are no landmarks on Chart 184 for the area covered by this compilation. Chart letter 467 (1935) lists recommended landmarks which are shown on this survey. ^{present}

Aids to Navigation.

All beacons in this area on Chart 184 are shown on T-5515. There are no lights in this area on Chart 184 and in the 1935 Light List. Chart letter 467 (1935) lists aids for this area which are shown on this survey.

Remarks.

This compilation is believed to have a probable error of 0.3 to 0.5 m.m. for intersected points and 0.3 to 0.8 m.m. for other detail. In the northern part of the sheet (north of latitude $30^{\circ} 05'$, and east of longitude $85^{\circ} 29'$) this error will run a little higher due to the lack of control.

August 27, 1935.

A. T. Rannus.

Frank G. Eukline W. G. Jones A. T. Rannus

REVIEW OF AIR PHOTO COMPILATION NO. T-5515

Chief of Party: M. H. Reese

Compiled by: Geo.E.Townsend

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)

Yes.

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 maps or blueprints 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.

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)

Yes.

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

The high water line was drawn as shown by field inspection party on photographs.

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

Because of the small difference between low and high water marks and the small scale of the photographs, only the high water line was 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 the 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)

~~To be~~ 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 sheet.

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

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 Longitude are correctly marked.

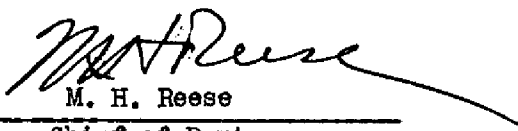
3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines 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)

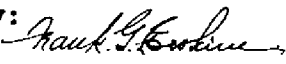
16. No additional surveying is recommended at this time.

17. Remarks:


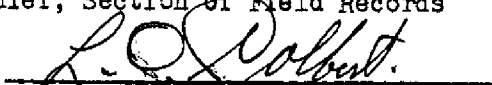
18. Examined and approved;


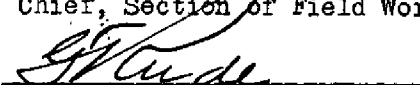

M. H. Reese
Chief of Party

19. Remarks after review in office:

Reviewed in office by:  B.G. Jones

Examined and approved:


Chief, Section of Field Records

Chief, Division of Charts


Chief, Section of Field Work

Chief, Division of Hydrography
and Topography.