DESCRIPTIVE REPORT

State: Florida

LOCALITY

- Vicinity of St. Andrew Bay
- Eastern end of East Bay
- Eastern part of East Bay
  from approx. Long. 88°00'50" N.
  to Wacapo River

CHIEF OF PARTY

M. H. Resse
Appl'd to chart 868 Aug. 1976 W.S.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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

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

General locality. .......................... EAST BAY, VICINITY OF ST. ANDREW BAY, Eastern end of East Bay, Eastern part of East Bay from approx. long. 86°20.6' to Wacissa River.

Locality ..................................

Scale. .......................... 1:10,000

Date of photographs ................... July 21, 1934.

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

Chief of party............. M. H. Rose

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 1:10,636. Enlarged and printed by photolithography on scale of 1:10,000. Scale factor 0.94.
- STATISTICS -

SHEET, FIELD NO. 761
REG. NO. T-5515 774
PHOTOS, NO. 779 TO NO. 798
DATE OF PHOTOGRAPHS 7/21/34 TIME 9:00 a.m.

BY E. P. Hernandez, Jr. & H. C. Ingersoll

FROM 2/23/35
TO

ROUGH RADIAL PLOT E. P. Hernandez, Jr. & H. C. Ingersoll 2/25/35

SCALE FACTOR (0.94) E. P. Hernandez, Jr. & S. S. Gill 2/23/35

SCALE FACTOR CHECKED E. P. Hernandez, Jr. 2/23/35

PROJECTION E. P. Hernandez, Jr. 2/25/35

PROJECTION CHECKED H. C. Smith 2/25/35

CONTROL PLOTTED C. Carter Brown 2/25/35

CONTROL CHECKED H. A. Bitters, Jr. 2/26/35

TOPOGRAPHY TRANSFERRED R. S. Poor 2/28/35

TOPOGRAPHY CHECKED R. S. Poor 3/4 - 15/35

SMOOTH RADIAL LINE PLOT R. S. Poor 3/4 - 15/35

RADIAL LINE PLOT CHECKED

DETAIL INKED George E. Townsend 3/19 - 4/15/35

PRELIMINARY REVIEW OF SHEET L. L. Fitch 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

LOCATION Eastern end of East Bay from approx. Long. 85°30'5" to Wepagoo River

LATITUDE North American 1927 (Adjusted) 30°02'57.239" (1762.3) [552]
Latitude 30°02'57.239" (1762.3) [552]

STATION U.S. E. 15 - 1934
Long. 85°28'25.190" (6706.6 m.)
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 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. L. 33; photographs Nos. 761 to 764 running in a northeast direction along East Bay; and Nos. 779 to 796 running parallel to the other flight, though opposite in direction.

II. CONTROL:

(A) Sources.

Triangulation by Lieut. W. 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.

(F) **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 Allenton and Wetnapo; Harrison Bayou and Sand River.

IV. COMPARISON WITH OTHER SURVES:

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 $85^\circ 26'$ and Latitude $30^\circ 02'$, 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. Airphoto location proved by $T_6^820$.

A discrepancy of about 10 meters appears along the shore line northwest of Longitude $85^\circ 29'$ and Latitude $30^\circ 03'$ 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.

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. $T_6^282$

There is a discrepancy of about 20 meters in the shore line at, approximately, Longitude $85^\circ 29.5'$ and Latitude $30^\circ 05'$, almost due north of topo station CRE. No change could be conscientiously made in the drafting at this point.

At several points in California Bayou located, approximately, at Longitude $85^\circ 29.5'$ and Latitude $30^\circ 05.5'$, 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.

The last two bayous at the western limit of the sheet, approximately Longitude $85^\circ 30'$ and Latitude $30^\circ 05.5'$, 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.

A 25-meter discrepancy in shore line is apparent at a point northeast of Station FOX in the approximate vicinity of Longitude $85^\circ 27'$ and Latitude $30^\circ 03'$. No alteration could be made here. $T_6^180$
The shore line northwest of Station SANDY at, approximately, Longitude 85°26.5' and Latitude 30°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.

The two islands and two long peninsulas located at, approximately, Longitude 85°26' and Latitude 30°04', in Harrison Bayou, have discrepancies of about 10 meters around their shores. No change could be made after checking the radial plotting.

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°03' 85°26'

On both sides of the mouth of Sand River, in Horseshoe Bayou, in the vicinity of Longitude 85°24' and Latitude 30°02', 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.

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.

Submitted by: George E. Townsend,
Draftsman.

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,
Chief of Party, C. & G. S.
GEOGRAPHIC NAMES

Survey No. T-5515

Date: August 28, 1935

Chart No. 184

FLORIDA

Diagram No. ____________

Approved by the Division of Geographic Names, Department of Interior. \(\times\)

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

Under investigation. \(Q\)

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<th>Name on Chart</th>
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</table>

Names underlined in red are approved.

[Signature]

Wm. Woods
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 planestable 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 planestable 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.

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° 05', and east of longitude 85° 29') this error will run a little higher due to the lack of control.


[Signature]

[Signature]
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; 25; 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. Blueprints 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 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, rocks, and objects on the

charts and in the accompanying text is satisfactory. (Par.
56, 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)

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 naviga-
tion 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. C. 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

and the

reference station is correctly noted.

14. Junctions with adjoining compilations have been examined and are
in agreement. (Par. 68j)

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 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 E. Kinkaid, B. G. Jones

Examined and approved:

E. T. Green
Chief, Section of Field Records

L. A. Robien
Chief, Division of Charts

E. S. Borden
Chief, Section of Field Work

E. C. Gifford
Chief, Division of Hydrography and Topography.