DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No... T-5481

State
Florida

Locality
Blackwater Bay

East Bay to Shield Point
Escribano Pt. and Vicinity

1935

Chief of Party
Mr. H. Rogers
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. ... 10 ............... T 5481

REGISTER NO. T-5481

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

General locality .... Blackwater Bay

Locality ......... East Bay to Shield Point Photographs

Scale .... 1:10,000 .... Date of Survey .......... July 11, 1934

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

Chief of party .... C. H. Reese .................................

Surveyed by ....... See data sheet in the descriptive report.

Inked by .......... C. C. Brown & C. G. W. Swanson ...........

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

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

Instructions dated ......... June 7, 1934 ...........

Remarks: Compiled and printed on scale of 1:10,000.

Scale factor 1:99.
- STATISTICS -

on

SHEET, FIELD NO. 10, REG. NO. T-5481

PHOTOS, NO. 117 TO NO. 145

DATE OF PHOTOGRAPHS 7/11/34 TIME 7:30-8:00 A.M.

BY

FROM

TO

ROUGH RADIAL PLOT

R. E. Wagner

10/22/34

SCALE FACTOR (1.00)

R. E. Wagner

10/23/34

SCALE FACTOR CHECKED

E. F. Hernandez, Jr.

10/23/34

PROJECTION

E. F. Hernandez, Jr.

10/24/34

PROJECTION CHECKED

A. C. Smith, Jr.

10/24/34

CONTROL PLOTTED

G. O. Coignet

10/25/34

CONTROL CHECKED

S. S. Gill

10/26/34

TOPOGRAPHY TRANSFERRED


TOPOGRAPHY CHECKED


SMOOTH RADIAL LINE PLOT

S. S. Gill

10/26 - 11/12/34

RADIAL LINE PLOT CHECKED

E. F. Hernandez, Jr.

11/12/34

DETAIL INKED

C. W. Swanson & C. C. Brown

12/7 - 12/17/34

PRELIMINARY REVIEW OF SHEET

E. F. Hernandez, Jr.

1/7/35

TOTAL AREA OF SHEET 26.6 sq. Statute Miles

AREA OF DETAIL INKED 17.4 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) 20.5 Statute Miles

LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide) 48 Statute Miles

GENERAL LOCATION Blackwater Bay

LOCATION East Bay to Shield Point

DATUM North American 1927 (Unadjusted)

Latitude 30°33'47.73" (1499.7 m.)

Longitude 86°59'27.93" (-799.1 m.)

STATION Yellow River 1892-1934

47.593' (14.656 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 in areas in which the draftsmen could not determine the exact nature of the detail from the photographs.

The area covered by this sheet consists of sandy land covered with pine, scrub oaks, broad-leaved trees, brush, and grass. There are areas of marsh in the central part of the sheet where numerous streams and lakes are located, and a few scattered areas of cultivated land.

The range of normal tide along the shore of East Bay and Blackwater Bay is slightly more than one foot, and the difference between low and high tides is so slight that the high water line as shown on field photographs was traced in showing shorelines.

The area covered by this sheet was traced from photographs made by the Aero Service Corporation, with their HUI-35 five-lens camera. Photographs Nos. 117 through 127 were taken running approximately northwest across the southernmost section of land shown on the sheet. Photographs Nos. 128 through 145 were taken running north along longitude 88°59'.

The U.S.G.S. T.T. stations are shown on this sheet with a 2.5 mm. circle.

On chart 1285 wharves are shown around Bay Point. Two of these are now shown as piling. The other wharves seem to have been removed or destroyed. No wharves exist at the tip end of Bay Point.

II. CONTROL:

(A) Sources.

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

(a) Triangulation by M. H. Reese, 1934.
(b) Triangulation by G. L. Anderson, 1934.

The geographic positions of these stations were computed on the North American 1927 Unadjusted Datum.

....
(B) Errors.

There are no errors in control used in the compilation of this sheet.

(c) Discrepancies.

The geographic positions of the U.S.G.S. T.T. stations in this area were not used as control in the radial plot. Instead, geographic positions of these stations as established by the radial plot were scaled from the celluloid and reported on form 524.

III. COMPILATION:

(A) Method.

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

(B) Adjustment of Plot.

There was no excessive tilt in the photographs used in tracing this sheet, but the scale difference from the scale of the projection was large, and it was necessary to make continuous adjustments while tracing. There was not much fluctuation in scale of photographs.

(c) Interpretation.

Graphic symbols used are those as approved by the Board of Surveys and Maps (1932) except the symbol (♀) that is used to designate brush.

An indefinite shoreline around the area of marshy ground in the north central section of this sheet is indicated by a broken line.

(D) Information from other sources.

No additional information aside from that mentioned in "General Information" was used in the compilation of this sheet.

(E) Conflicting names.

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

(F) List of new names (well-established local).

Yellow River Shell Harwood Bayou
Shadrick River Big Catfish Basin
Broad River Little Catfish Basin
Weaver River Fundy Bayou

Names corroborated by U. S. Engineers Office and by a native of the locality.
IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets to the north, $\frac{3}{4}, T-5482$ west, $\frac{1}{2}$, and southeast, $\frac{1}{2}$, are satisfactory.

$T-5483$  $T-5480$

General details check in shape with Chart No. 1265. An accurate check of this area cannot be made due to the large difference in scale between this sheet and Chart No. 1265.

V. LANDMARKS:

Landmarks of aid to navigation in this area are submitted on form No. 567, by Lieut. I. E. Rittenburg's party.

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: C. C. Browm,
Draftsman.

Approved by: M. H. Reese,
Chief of Party.
MEMORANDUM TO ACCOMPANY SHEET NO. T-5481.

The shore line of this compilation was transferred to the plane table sheet of Lieut. Rittenburg's party. The topographer was instructed to check the shore line at each plane table set-up and each topo signal and if any differences were discovered to rod in the shore line until the error was determined. There was only one difference of note, and this has been rectified on the compilation. The location of the piers and old wharves, which could not be identified accurately on the photographs, were transferred from the topo sheet to the compilation.

This sheet was originally compiled from triangulation data computed from the field positions of the first order arc. When the first order arc was adjusted, there was considerable difference between the adjusted and field positions. The projection on this sheet has been shifted to the adjusted datum. The manner in which the factor was obtained is given below:

<table>
<thead>
<tr>
<th>STATION</th>
<th>N.A. 1927 FINAL POSITION (UNADJUSTED)</th>
<th>CORR'N</th>
<th>N.A. 1927 FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Milligan U.S.E.</td>
<td>30 35 10.238 315.3</td>
<td>-4.2</td>
<td>319.5</td>
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<tr>
<td>1892-1934</td>
<td>87 01 06.386 170.1</td>
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<td>Shield Pt. Bn.</td>
<td>30 34 50.730 1562.2</td>
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<td>1566.3</td>
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<td>1934</td>
<td>87 00 45.201 1204.3</td>
<td>-7.0</td>
<td>1211.4</td>
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<tr>
<td>Razor U.S.E.</td>
<td>30 34 50.957 1569.2</td>
<td>-4.1</td>
<td>1573.3</td>
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<tr>
<td></td>
<td>87 00 17.425 464.3</td>
<td>-6.9</td>
<td>471.2</td>
</tr>
<tr>
<td>Bay Pt. Bn.</td>
<td>30 34 02.590 79.7</td>
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<td>83.9</td>
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<tr>
<td></td>
<td>86 59 47.902 1273.9</td>
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</tr>
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<td>Yellow River</td>
<td>30 33 47.593 1465.6</td>
<td>-4.1</td>
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<td></td>
<td>86 59 27.136 723.3</td>
<td>-6.8</td>
<td>730.1</td>
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<tr>
<td>Robinson Pt.</td>
<td>30 32 52.557 1618.7</td>
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<td>1622.8</td>
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<tr>
<td></td>
<td>87 00 53.675 1430.6</td>
<td>-7.2</td>
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<td>Weaver Mouth</td>
<td>30 32 43.972 1354.1</td>
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<td>1358.1</td>
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<td>U.S.E.</td>
<td>87 00 02.532 67.5</td>
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<tr>
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<td>-3.9</td>
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<tr>
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<td>87 00 43.698 1165.1</td>
<td>-6.8</td>
<td>1171.9</td>
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<tr>
<td>Escribano</td>
<td>30 30 49.689 1530.1</td>
<td>-3.9</td>
<td>1534.0</td>
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<td></td>
<td>86 59 53.565 1428.2</td>
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<td>CORR'N</td>
<td>N.A. 1927 FIELD</td>
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<td>Escribano Pt.</td>
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<td>87 01 10.028 267.4</td>
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<td>274.2</td>
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<td>Helms 1934</td>
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<td>111.7</td>
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<td>86 59 09.745 259.7</td>
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<td>266.5</td>
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<td>Bayou, East Bay</td>
<td>30 28 48.407 1490.6</td>
<td>-3.7</td>
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<td></td>
<td>86 58 40.008 1057.1</td>
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<td>87 02 14.627 389.9</td>
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(Average Correction: Lat. -4.0; Long. -6.9)
### Geographic Names

**Survey No. T-5481**

**Date:** June 14, 1935  
**Chart No.:** 1265

**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

<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
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<td>Shadrick River</td>
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<td>Yes</td>
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<td>Robinson Point</td>
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<td>Blackwater Bay</td>
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<td>Broad River</td>
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<td>Shell Hammock Bayou</td>
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<tr>
<td></td>
<td>East Bay</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Comparison with Graphic Control Survey

T-6320b (March 1935), 1:20,000

There were no discrepancies in high water line or detail at places checked by rodding on the graphic control survey. The plane table sheet showed numerous isolated piles which were transferred to the compilation. There was a large difference in the arrangement and location of piling and ruins of docks and piers in vicinity of Bay Point. The compilation was changed to agree with the plane table sheet where the photographs were not clear on the piling detail.

All detail on the above graphic control sheet is now shown on the compilation except the temporary plane table stations and magnetic meridian.

Comparison with Contemporary Hydrographic Survey.

H-5834 (April-June, 1935), 1:20,000

Comparison showed some difference in the arrangement and location of piling and dock ruins at Bay Point. There were also minor discrepancies in delineation of the island at lat. 30° 33.5', long. 86° 59.9' and the east end of the island at lat. 30° 34.7', long. 86° 59.5'. These differences have been taken up with the reviewing unit and corrected on H-5834.

Comparison with Previous Topographic Surveys.

There have been numerous changes in HW line in vicinity of Catfish Basin, Grass Point, Fundy Bayou, Yellow and Shadrick Rivers, and in marshy areas opposite Robinson Point. Many structural changes have been made including changes in road location and numerous changes in docks, piers, etc.

The compilation is complete and adequate to supersede the following previous topographic surveys for charting except as noted:

T-797 (1960) 1:20,000
T-2093 (1892) 1:10,000
T-2158 (1894-5) 1:10,000 except contours.

General

The delineation of interior detail on this compilation is very poor. Generalization has been carried to the extreme. The limits of swamp lands, and the limits of wooded areas are poorly drawn and indefinite whereas the photographs are clear and this detail is well defined.

The interior detail on this compilation has not been corrected as it would require re-drafting practically the entire interior area which is not warranted at this time.

11/24/36

[Signature]
REVIEW OF AIR PHOTO COMPILATION NO. T-5481

Chief of Party: M. H. Reese

Project: Florida Compilation

Instructions dated: June 7, 1936

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)

Mentioned in descriptive report under "General Information".

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)

None used.

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. 23)

None used. 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.

No other surveys are available. See Manual.

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)

Discussed in descriptive report.

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

H.W.L. was drawn as determined 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, reefs, coral reefs, and sand bars and legends pertaining to them is satisfactory. (Par. 35, 37, 38, 39, 40, 41)

Due to small difference in low and high water marks and scale in the photograph, only the H.W.L. 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)

Yes.

10. A list of landmarks was furnished on Form 587 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

Yes.

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)

All geographic names available are shown on the overlay tracing and mentioned in report under F III (e).

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

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

Yes except the H.W.L. which

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;

   [Signature]
   M. H. Reese,
   Chief of Party

19. Remarks after review in office:

Reviewed in office by: [Signature]

Examined and approved:

   C. R. Green
   Chief, Section of Field Records

   L. O. Abbott
   Chief, Division of Charts

   Fred. L. Peacock
   Chief, Section of Field Work

   Chief, Division of Hydrography and Topography.
Supplemental T. 5481.

5/31/38.

Additions in red from original graphic control survey. These were left off the original file copy and have been added to the supplemental at the time the instructions were printed, printing was completed 5/31/38.

B. J. 6/86. T.