

5482

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. T-5482

State Florida

### LOCALITY

Blackwater River

Wright Basin

1935

CHIEF OF PARTY

M.H. Reese

U. S. GOVERNMENT PRINTING OFFICE

5482

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. 11

REGISTER NO. T-5482

State Florida  
General locality Milton, Florida <sup>Blackwater River</sup> ~~Pensacola Bay, Fla.~~  
Locality Blackwater Bay to Wright Basin <sup>Wright Basin</sup> ~~East of Milton~~  
Scale 1:10,000 Date of <sup>photographs</sup> ~~survey~~ July 11, 1934.  
~~Vessel~~ Air Photo Compilation Party No. 24, Pensacola, Fla.  
Chief of party M. H. Reese.  
Surveyed by See data sheet in the descriptive report.  
Inked by H. C. Caulfield  
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 1.00.

Kelley  
6 # cords on '524'  
Filed  
Bgg  
3 names shown; words marked  
"lost"

- STATISTICS -

on

SHEET, FIELD NO. 11, REG. NO. T-5482

PHOTOS, NO. 146 TO NO. 157

DATE OF PHOTOGRAPHS 7/11/34 TIME 8:00 a.m.

BY

DATE  
FROM TO

ROUGH RADIAL PLOT	<u>R. E. Wagner</u> R. E. Wagner	<u>10/22/34</u>
SCALE FACTOR (1.00)	<u>R. E. Wagner</u> R. E. Wagner	<u>10/23/34</u>
SCALE FACTOR CHECKED	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>10/24/34</u>
PROJECTION	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>10/25/34</u>
PROJECTION CHECKED	<u>R. E. Wagner</u> R. E. Wagner	<u>10/25/34</u>
CONTROL PLOTTED	<u>R. E. Wagner</u> R. E. Wagner	<u>10/30/34</u>
CONTROL CHECKED	<u>S. S. Gill</u> S. S. Gill	<u>11/1/34</u>

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED

SMOOTH RADIAL LINE PLOT	<u>S. S. Gill</u> S. S. Gill	<u>11/1 - 11/7/34</u>
RADIAL LINE PLOT CHECKED	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>11/8/34</u>
DETAIL INKED	<u>H. C. Caulfield</u> H. C. Caulfield	<u>1/3/35</u>
PRELIMINARY REVIEW OF SHEET	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>1/14/35</u>

Total area of sheet = 20.2 sq. statute Miles

AREA OF DETAIL INKED 19.7 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)

57 Statute Miles

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

24.6 Statute Miles

GENERAL LOCATION Blackwater River  
Milton, Florida

LOCATION Blackwater Bay to Wright Basin

DATUM North American 1927 (Unadjusted)

STATION Pit 1934 (unadjusted)

Latitude 30°37'50.237" (1547.0 m.)  
50.095" (1542.6 m.)  
Longitude 86°59'17.876" (476.1 m.)  
17.615" (469.1 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5482

FIELD NO. 11

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 draftsman could not determine the exact nature of the detail from the photographs.

The important area covered by this sheet includes parts of Blackwater Bay and Blackwater River, and areas consisting principally of sandy land covered with pines, oaks, grass, brush and scrub oak. Cultivated lands and orchards are scattered throughout this area.

The range of normal tide along the shores of Blackwater River and Blackwater Bay is about one foot, and the difference between the high and low water mark is so small that only the high water line was used in tracing shorelines.

All of the area covered by this sheet was traced from photographs made with the Aero Service Corporation's HUI-33 five-lens camera; photographs Nos. 146 to 157, inclusive, running approximately north and south along Longitude 87°59'.

The western section of this sheet was traced from the extreme end of the wing prints of this flight and the overlapping flight. The detail was not clear on either of the two flights, but was traced as nearly as could be determined by inspection of the photographs.

Photographs covering that part of Blackwater Bay as shown on this sheet were very poor, and due to marsh grass growing in water outside of shoreline, and overhanging trees, it was impossible to obtain the correct highwater line from the photographs. However, an attempt was made to draw in this highwater line as accurately as possible.

The detail in the vicinity of Latitude 30°39' and north of this is secondary and is not to be considered as accurate. This detail was traced from the last photograph of the flight (No. 157), and only flat intersections were obtained when the radial plot was made. However, the general direction of the river may be considered as being correct. *(Probably correct within 1.5 m.m.)*

## II. CONTROL:

### (A) Sources.

The following source of control was used in the compilation of this sheet:

- (a) Triangulation by M. H. Reese, 1934.

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

The control in the southwest section of this sheet, in which the important detail is found, is adequate. However, triangulation station BUOY would not hold in the radial plot, which was probably due to its not being tied in on photographs correctly, as the photographs are very poor in this section. The control for the remainder of the sheet is very weak for accurate work, but is thought sufficient, as this area has no detail of any importance.

### (B) Errors.

Triangulation station BUOY 1934 would not hold in the radial plot.

### (C) Discrepancies.

The stations established by the Geological Survey were used, but their geographic positions did not check with the radial plot. Their positions were determined by the radial plot and reported on Form 524.

The U.S.E. stations also were located by radial line plot and reported on Form 524.

## III. COMPILATION:

### (A) Method.

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

### (B) Adjustment of plot.

The photographs used in tracing this sheet were free from excessive tilt, but the difference in scale from the scale of projection was large and a great amount of adjusting was necessary in tracing.

The scale of photographs did not fluctuate very much throughout this sheet.

(C) Interpretation.

The graphic symbols used are the symbols approved by the Board of Surveys and Maps (1932), except the symbol (  $\oint$  ) that was used to denote brush.

(D) Information from other sources.

No information other than that mentioned under "General Information" was used in the compilation of this sheet.

(E) Conflicting Names.

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

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet on the South and West with sheets Nos. ~~10~~ and ~~12~~, respectively, are satisfactory.

T-5481 T-5483

In comparing this sheet with previous charts of this area, it is seen that the general detail checks in shape with chart No. 1265. A close check, however, cannot be made of the area because of the great difference in scale.

V. LANDMARKS:

~~There are no landmarks of value to navigation in this area.~~

A list of landmarks is submitted on Form No. 567 by Lieut. I.E. Rittenburg  
*now submitted*

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: *H.C. Caulfield*  
H. C. Caulfield,  
Draftsman.

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

*The probable error of this survey is believed to be not more than 0.3 to 0.5 mm. for intersected points and not more than 0.3 to 0.8 mm. for all other detail, except as noted on pages 2.*

*Aug. 1935*

*H.C. Caulfield*

MEMORANDUM TO ACCOMPANY SHEET NO. T-5482.

The shore line of this compilation was transferred to the aluminum plane table sheet of Lieut. Rittenburg's party, and the topographer checked the shore line and other topographic information shown on this sheet as the plane table survey was made. A few differences were discovered, and these have been rectified according to information received from the plane table party. *as for north 34° 35'*

This sheet was originally compiled using the triangulation data obtained from the field positions of the first order arc. When the first order arc was adjusted, it was discovered that a considerable difference existed between the adjusted and field positions; therefore, it was necessary to change the projection on this compilation to agree with the adjusted values. The manner in which this projection was changed is given below:

<u>STATION</u>	<u>N.A. 1927 FINAL POSITION</u>		<u>CORR'N</u>	<u>N.A. 1927 FIELD</u>
	<u>(UNADJUSTED)</u>			
Pit	30 37 50.095	1542.6	-4.5	1547.0
	86 59 17.615	469.1	-7.0	476.1
Milligan U.S.E.	30 35 10.238	315.3	-4.2	319.5
	87 01 06.386	170.1	-7.0	177.1
Buoy	30 35 16.247	500.3	-4.2	504.5
	87 00 44.401	1183.0	-6.9	1189.9

(Average Correction: Lat. -4.3; Long. -6.9)

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

Date. June 14, 1935

Chart No. 1265

Diagram No.

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

Under investigation. Q

[illegible]



## REVIEW OF AIR PHOTO COMPILATION T-5482

Scale 1:10,000

### Comparison with Graphic Control Sheet.

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

T-6320b covers only extreme western part of area. The shore line from T-5482 was transferred to T-6320b prior to the plane table survey.

Some discrepancies were found in the plotting of described stations. However, (in the S. W. part of the area) after comparison of the two sheets and examination of the photographs of the area it was decided to use the stations as plotted on T-5482.

U. S. E. BRI, a described station, was transferred to T-5482 from T-6320b.

All detail shown on T-6320b is now shown on T-5482 except magnetic meridian and temporary plane table stations.

### Comparison with Previous Topographic Surveys.

T-2094 (1893) scale 1:10,000.

T-2094 covers western part of area only.

The greater part of the shore line has not undergone much change, the difference being 15 to 20 m. except in Wright Basin where the change in some places has been as much as 80 m. and in Kehoe Bayou which has narrowed considerably since T-2094 was made.

T-2094 shows two wrecks in Blackwater River just west of North Island which are not now in existence.

The canal into Wright Basin from the north has partially disappeared.

T-5482 is considered adequate to supersede T-2094 for the area covered, except for the contours.

### Comparison with Contemporary Hydrographic Surveys.

H-5834b (1935) scale 1:10,000.

H-5834b covers western part of area only.

There are no conflicts with the hydrography.

A row of piling in Wright Basin and a dock in the mouth of Langleys Bayou were transferred from H-5834b to T-5482.

Comparison with Chart.

Chart No. 1265 scale 1:80,000.

Chart 1265 covers only area adjacent to water.

For further discussion see page 4 of the descriptive report for T-5482.

Landmarks and Aids to Navigation.

There are no landmarks or aids to navigation on the chart in this area, nor have any been recommended.

*H. D. Reed*  
H. D. Reed.

*Aug 26, 1935*  
*Frank G. Enline* ✓ *B. G. Jones*

REVIEW OF AIR PHOTO COMPILATION NO. T-5482

Chief of Party: M. H. Reese

Compiled by: H. C. Caulfield

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)  
Mentioned in descriptive 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)  
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. 28)  
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 such surveys available. *see memo*
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 descriptive report.
7. High water line on marshy and ~~marshy~~<sup>sandy</sup> coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)  
See descriptive 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 low water lines, ~~reefs, coral reefs and rocks~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)  
Due to small range of normal tide and large scale of compilation, the low water line was not shown on the sheet.

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 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

~~None.~~ List submitted by Lieut. I.E. Rittenburg's party. *Form submitted.*

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 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)

Names obtained from U.S.C. & G.S. chart #1265.

13. The geographic datum of the compilation is N.A. 1927 Un- and the reference station is correctly noted. <sup>adjusted</sup>

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

Mentioned in descriptive report. *Yes.*

15. The drafting is ~~satisfactory~~ *fine* 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;

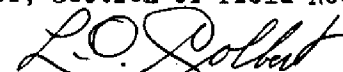
  
M. H. Reese  
Chief of Party

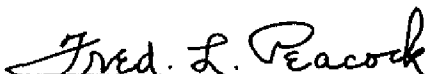
19. Remarks after review in office:

Reviewed in office by: *Frank G. Embury* ✓ *B. G. Jones*

Examined and approved:

  
Chief, Section of Field Records

  
Chief, Division of Charts

  
Chief, Section of Field Work

  
Acting Chief, Division of Hydrography  
and Topography.