

5484

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic }
~~Hydrographic~~ } Sheet No. T-5484

State Florida

LOCALITY

Pensacola Bay
Garcon Pt and Vicinity
~~East Bay to Escambia Bay~~

1935

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

5484

Applied to Oct 1192 - Oct 1936 L. H. G. Smith
Applied to Chart 871 - July 12, 1946 - M. M. R. - was 1/1/1

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. 13

REGISTER NO. T-5484 **T5484**

State Florida

General locality Pensacola Bay

Locality Garcen Pt and vicinity
~~Escombria Bay to East Bay~~

Scale 1:10,000 Date of photos: July 11
survey: July 20, 1934.

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

Chief of party M. H. Reese

Surveyed by See statistics sheet in descriptive report.

Inked by L. L. Wright

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.

- STATISTICS -

on

SHEET, FIELD NO. 13, REG. NO. T-5484

PHOTOS, NO. 180 TO NO. 197
610 TO NO. 616
 DATE OF PHOTOGRAPHS 7/11/34 TIME 8:00 A.M.
7/20/34 TIME 7:00 A.M.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	<u>R. E. Wagner</u>	<u>10/22/34</u>
SCALE FACTOR (1.00)	<u>R. E. Wagner</u>	<u>10/23/34</u>
SCALE FACTOR CHECKED	<u>E. P. Hernandez Jr.</u>	<u>10/24/34</u>
PROJECTION	<u>E. P. Hernandez Jr.</u>	<u>11/1/34</u>
PROJECTION CHECKED	<u>R. E. Wagner</u>	<u>11/1/34</u>
CONTROL PLOTTED	<u>R. E. Wagner</u>	<u>11/1/34</u>
CONTROL CHECKED	<u>R. S. Hayes</u>	<u>11/1/34</u>
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<u>G. O. Coignet & R. E. Wagner</u>	<u>11/5/34 - 11/9/34</u>
RADIAL LINE PLOT CHECKED	<u>E. P. Hernandez Jr.</u>	<u>11/9/34</u>
DETAIL INKED	<u>L. L. Wright</u>	<u>11/9/34-12/22/34</u>
PRELIMINARY REVIEW OF SHEET	<u>E. P. Hernandez Jr.</u>	<u>1/7/35</u>
Total area of sheet <u>32.1 sq. statute mks.</u>		
AREA OF DETAIL INKED	<u>18.7 sq. Statute Miles</u>	(Land Area)
AREA OF DETAIL INKED	<u>sq. Statute Miles</u>	(Shoals in Water Area)
LENGTH OF SHORELINE (more than 200 m. from nearest opposite shore)	<u>15 Statute Miles</u>	
LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)	<u>32 Statute Miles</u>	
GENERAL LOCATION	<u>Pensacola Bay</u>	
LOCATION	<u>Escambia Bay to East Bay</u>	
DATUM	<u>North American 1927</u>	

Latitude ~~30° 20' 52.030"~~ (1626.3)
52.811 (1626.3)

STATION Raffaello 1934 Adjusted (int.) Longitude ~~87° 05' 54.307"~~ (1441.12)
54.041 (1441.12)

White, 1934 (unadjusted) Lat. 30° 27' 56.748" (1716.6 m.)
 Long. 87° 03' 55.225" (1479.4 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5484

FIELD NO. 13

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The area extends from Pensacola Bay on the South, northward between Escambia Bay on the West and Blackwater and East Bays on the East, to Latitude $30^{\circ}32'30''$.

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 coast line of the area is marked by a narrow sandy beach and the coast as a whole is punctuated with scattered thickets of pines and a few broad-leaved trees, together with spots of marsh. The whole southern end of the land area is marshy. Frequent small streams and creeks on the East and a few bayous on the West drain marshy environs and wooded areas. A few cultivated fields lie adjacent or in these areas. The interior is grassy with a few scattered pines and scrub oaks. A poor sand road follows roughly the north portion of the East coast, terminating in a sand trail that runs southwestward to a cultivated field on the West coast.

This sheet was compiled from photographs taken by the Aero Service Corporation's five-lens camera HUI-33. Photographs Nos. 180-197, approximately paralleling the East coast, were taken at 8:00 a.m., July 11, 1934, stage of tide approximately ± 1.1 . Photographs Nos. 610-616, extending from a point near Latitude $30^{\circ}30'$, Longitude $87^{\circ}05'$ in a northwest direction, were taken at 7:00 a.m., July 20, 1934, stage of tide approximately ± 1.0 . The mean range of tide for this area is only 1.1, hence only the high water line was traced. This line was indicated on field photographs by the field inspection party, and traced and adjusted on the compilation.

On Station Eagle Point 1934 only two out of five field ties were used in spotting it on the photographs. In establishing the radial line plot this location on the photographs was used for control. In addition to a number of other stations in

this vicinity this station held well in the radial plot, and its spotting on the photographs was considered correct.

Station Lindsay 2 was incorrectly tied in on the photographs in the field. It was not spotted on the office photographs and consequently not used as control for the radial plot. Because two light beacons in the bay near this spot were considered adequate control in this vicinity for the radial plot, no attempt was made to go back to tie in Station Lindsay 2.

Blackwater Channel, Front Range Lt. Bn., established 1913, rebuilt 1926; Blackwater Channel, Rear Range Lt. Bn., established 1913. Positions of these two lights as cut in by triangulation and checked on radial line plot do not check with positions found on Chart No. 1265.

Middle Beacon, off White Point and almost directly north of White Pt. Light Bn., checks with beacon shown on Chart 1265. Name "Middle Beacon" was obtained from Gulf Coast Local Light & Buoy List, 1934, corrected to January 15.

II. CONTROL:

(A) Sources.

The following source of control was used in compiling this sheet:

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

No geographic positions computed by other organizations were used in the compilation of this sheet. The positions were computed from the North American 1927 Unadjusted Datum. *See memo page 7*

(B) Errors.

No errors in control were found in the compilation of this sheet.

(C) Discrepancies.

No discrepancies were found in the compilation of this sheet.

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 this compilation were quite free from excessive tilt and distortion, and the radial line plot required no unusual adjustments.

(C) Interpretation.

The high water line on the southernmost part of the sheet was traced from poor and indefinite photographs. Despite this it is considered sufficiently accurate for chart compilation. So much marsh exists in this area that even with better photographs no much clearer interpretation might have been made.

The information as to the high water line on #185 "A" print was discarded in favor of that shown on #186 "A" print.

Shoreline between Escribano Point Beacon and Blackwater Bay Channel Front Range Lt. Bn. does not agree with information obtained in field, because *sn T5481* the field inspection party clearly misinterpreted the high water line due to reflected sunlight on adjacent water.

The symbol ({) was used to denote brush. Otherwise, the graphic symbols approved by the Board of Surveys and Maps, 1932, were used throughout.

(D) Information from other sources.

No information was taken from sources other than mentioned in preceding paragraphs.

(E) Conflicting names.

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

(F) New names.

The names for the bayous on the west coast were obtained from members of the field inspection group, who, in turn, had obtained them from natives of the vicinity. The names of these bayous do not appear

on other charts of the area. These names follow:

Indian Bayou
Trout Bayou
Raccoon Bayou
Red Fish Bayou
Basin Bayou
Alligator Bayou

IV. COMPARISON WITH OTHER SURVEYS:

The junction of this sheet with sheet to the North, No. T-5483, is satisfactory.

Chart No. 1265 shows a small creek or slough near Hernandez Point, but the more recent interpretation of this spot is that it is a bit marshy with a few scattered trees.

Chart No. 490 shows a small lake or pond near Latitude $30^{\circ}27'$, Longitude $87^{\circ}06'$. Recent interpretation of this spot describes it as marshy with scattered trees. There is a waterhole located in this vicinity. Possibly the former lake or pond has filled in and this waterhole is all that remains.

V. LANDMARKS:

The list of landmarks of value to navigation is submitted 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 deemed necessary.

Submitted by: *L. L. Wright*
L. L. Wright,
Draftsman.

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

NOTE:

The computation of Reese's local scheme of triangulation and the adjustment of the older schemes to N. A. 1927 datum for use on the photo compilations in this area were originally based on the field computations of the First Order Arc (N. A. 1927). When the First Order Work was later adjusted in this office the values of the Field Computations were considerably changed. These adjusted values of the First Order Arc were furnished to Reese before the completion of the compilations. Reese recomputed his local scheme of triangulation using the new adjusted values of the First Order Stations from which he had started and closed on. The differences between his original and final field computations are given on the opposite page for this particular area. Since these differences were fairly constant over the area of any one compilation Reese shifted his projection on each compilation where the differences were plottable. This was necessary only on those compilations on which the control had been plotted prior to the receipt of the adjusted First Order Work.

B G Jones

MEMORANDUM TO ACCOMPANY SHEET NO. T-5484.

The shore line and topographic information in the vicinity of the shore line on this sheet were transferred to the aluminum sheet of Lieut. Rittenburg's party. The topographer was instructed to check the shore line at each plane table set-up and at each topographic signal, and at any other place where he discovered any differences. There were practically no differences on this sheet, and the ones that were discovered have been rectified.

This sheet was originally compiled from triangulation data obtained from the field positions of the first order arc. After the first order arc was adjusted, considerable differences were found between the adjusted and the field values; therefore, it was necessary to change the projection on this compilation to agree with the adjusted values of the compilation. The manner in which this was done is given below:

Values from this column to be used.

STATION	N.A. 1927 FINAL POSITION (UNADJUSTED)		CORR'N	N.A. 1927 FIELD
RAFFAELE 1934	30 29 52.811 87 05 54.041	1626.3 1441.0	-3.6 -7.2	1629.9 1448.2
PEAR 1934	30 27 46.677 87 05 49.810	^{1437.3} 410.5 1328.8	-3.0 -6.2	^{1440.3} 407.3 1335.0
HERNANDEZ PT. 1934	30 26 59.660 87 06 09.202	1837.1 245.5	-3.6 -7.1	1840.7 252.6
WHITE 1934	30 27 55.748 87 03 55.225	1716.6 1473.4	-3.7 -7.2	1720.3 1480.4
LINDSAY 2	30 30 07.085 87 02 50.004	218.2 1333.4	-3.7 -7.0	221.9 1340.4
EAGLE PT.	30 31 52.116 87 02 14.627	1604.9 389.9	-3.9 -7.0	1608.8 396.9
EAST BAY R.R. BN.	³² 30 22 05.111 87 01 55.661	157.4 950.7	-3.9 -6.9	161.3 957.6
ESCRIBANO PT. BN.	30 31 13.466 87 01 44.829	414.7 1195.2	-3.8 -6.9	418.5 1202.1
EAST BAY F.R. BN.	30 31 39.415 87 01 41.209	1213.7 1098.6	-3.9 -7.0	1217.6 1105.6
BLACKWATER BAY F.R.	30 30 30.524 87 02 17.220	940.0 459.1	-4.1 -6.8	944.1 465.9

<u>STATION</u>	<u>N.A. 1927 FINAL POSITION</u>		<u>CORR'N</u>	<u>N.A. 1927 FIELD</u>
	<u>(UNADJUSTED)</u>			
BLACKWATER BAY	30 30 02.127	65.5	-3.8	69.3
R.R.	87 02 36.856	982.8	-7.0	989.8
MIDDLE BN.	30 28 11.774	362.6	-3.0	365.6
East Bay	87 02 21.649	577.5	-6.8	584.3
WHITE PT. BN.	30 26 01.200	37.0	-3.5	40.5
	87 02 42.284	1128.3	-7.0	1135.3

(Average Correction: Lat. -3.65; Long. -6.86)

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

Date. June 6, 1935.

Survey No. T-5484

Chart No. 490 & 1265

Diagram No. _____

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

Under investigation. Q

[illegible]

REVIEW OF AIR PHOTO COMPILATION T-5484
Scale 1:10,000

Comparison with Graphic Control Surveys

T-6319a and b (Feb.-May 1935), 1:20,000
T-6320a and b " " "

The graphic control surveys show only the locations of topographic stations with a few short stretches of rodded shoreline in this area. Shoreline from this compilation is shown in pencil on the graphic control surveys as transferred by the shoreline projector before beginning planetable work. This shoreline is in agreement with the planetable locations of signals.

All detail on the above graphic control surveys within the area of this compilation is shown on the compilation except for temporary stations and the magnetic meridians.

Comparison with Contemporary Hydrographic Surveys

H-5822 (1935), 1:20,000
H-5834a (Feb.-May 1935), 1:20,000

No discrepancies.

Comparison with Previous Topographic Surveys

There are numerous differences in the high water line, due probably to errors in interpretation in marshy areas. There have also been numerous changes in the locations of roads, wharves, docks and other detail. The compilation is complete and adequate to supersede the following previous topographic surveys for the purpose of charting:

T- 717 (1856-58), 1:20,000
T- 797 (1860) "
T-2093 (1892) 1:10,000
T-2157 (1894) "
T-2158 (1894) "
T-2159 (1894-5) "

Comparison with Charts Nos. 490 and 1265

The roads shown on this compilation are sand roads but are in general use and should be charted. The road shown by single dashed line below lat. 30° 29' should be charted and will be corrected to a double dashed line on this compilation at a later printing.

See also pages 2 and 5 of the preceding report, T-5484.

Nov. 11, 1936.

H. H. Schleiter
B. G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. T-5484

Chief of Party: M. H. Reese

Compiled by: L. L. Wright

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)

All information necessary was shown.

- ✓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 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.

- ✓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~~ were 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.

None. See attached Memorandum.

- ✓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)

Yes. See Paragraph III(c) of 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 scale of photographs and due to average range of tide being ~~low~~, low water line was not shown.

only about one foot,

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)

None other than triangulation stations.

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)

Yes. *By Lt. I. E. Rittenborg's 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)

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)

Yes.

13. The geographic datum of the compilation is ~~N.A. 1927~~ ^{unadjusted} ~~un~~ ^{adjusted} and the reference station is correctly noted.

yes.

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

Mentioned in report.

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)

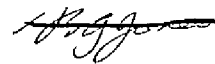
✓ 16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;


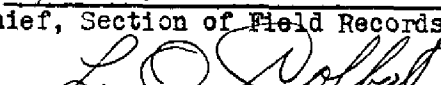

M. H. Reese,
Chief of Party

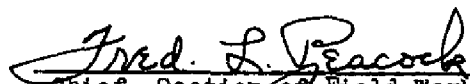

19. Remarks after review in office:



Reviewed in office by: Sleiter ✓ 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.