

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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

DESCRIPTIVE REPORT

Topographic Sheet No. T-5518 ROGICE O EXCEPTACE

Florida

LOCALITY

Vicinity of St. Andrew Bay

Western Half of East Bay

193 5

CHIEF OF PARTY

M. H. Reese

U.S. GOVERNMENT PRINTING OFFICE: 1934

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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	applicat To CAN 1563 - Det. 1938 - ND-
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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-5518
StateFlorida
General locality <u>Feet Bay</u> Vicinity of St. Andrew Bay
photographs
photographs Scale 1:10,638 Date of sourcey July 21 19 34
Veccel Air Photo Compilation Party No. 24, Pensacola, Fla.
Chief of party M. H. Reese
Surveyed by See data sheet in descriptive report. H. A. Wallers, H.
Inked by H. A. Butters, Jr.
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated
Remarks: Committed 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. I	10. T-551	3	
PHOTOS, NO.				
DATE OF PHOTOGRAPHS	7/21/35	TIME	9:00 a.m.	
	BY		DATE FROM	<u>TO</u>
ROUGH RADIAL PLOT				
SCALE FACTOR (0.94)				
SCALE FACTOR CHECKED		, ,		
PROJECTION	E. P. Hernand	ez, Jr.	2/28	/35
PROJECTION CHECKED	H. C. Smith		2/28	/35
CONTROL PLOTTED	H. A. Butters	, Jr.	2/28	/35
CONTROL CHECKED	C. Carter Bro	wn	3/1/	35
TOPOGRAPHY TRANSFERRED				to do not the Condition
TOPOGRAPHY CHECKED		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
SMOOTH RADIAL LINE PLOT	H. A. Butters	, Jr.	3/15	/35
RADIAL LINE PLOT CHECKED	M. H. Reese		3/15	/35
DETAIL INKED	H. A. Butters	, Jr.	3/19 - 4	/2/35
PRELIMINARY REVIEW OF SHEET	E. L. Pitch	es, Jr.	4/30	/35
TOTAL AREA OF SHEET 25.2 S AREA OF DETAIL INKED 15.2 S AREA OF DETAIL INKED S	q. Statute Mil	es (
LENGTH OF SHORELINE (more th				ore)
LENGTH OF SHORELINE (rivers	and sloughs le	Statute Mi ss than 20 Statute Mi	O m. wide)	
GENERAL LOCATION East Bay		t. Andrew	Bay	
LOCATION Gainer's Bayou to	Didi Point			
DATUM North American 1927				56" (171.1 m.)
STATION Dixon 3 - 1934 (a	yosad) :	Longitude_	85034 09.8	73" (264.3 m.)
STATION Dixon 3 - 1934 (a	ivsted) Lat. Long.	30° 07' .	14.672" (58.652" (1	451.8) m. 1 1570.2) m. 1

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5518

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The information used in the compilation of this sheet was obtained from notes and sketches on field photographs and from members of the field inspection party in areas where the draftsman could not determine the exact nature of the detail from the photographs.

All names appearing on the sheet were taken from the U.S.C. & G.S. Chart No. 184 or from field inspection notes.

The area covered by this sheet shows the northwestern shore line of East Bay and includes the settlements of Parker, Callaway and Cooks, and the eastern part of Bay Harbor.

The western part of the sheet is heavily wooded except for occasional cultivated areas. The central and eastern section of the sheet is sparsely settled and consists of cutover land. The whole area is characterized by several bayous which extend inland from one to two miles. At several places there are swampy areas, heavily wooded with pine, hardwood and brush, which drain into the bayous. The area bordering on East Bay east of Long Point is low and, in many places, marshy. Elevations increase gradually as one moves inland.

The fixed wooden bridges over the several bayous are in poor condition.

The range of normal tide in this area is about a foot, and the difference between high and low water is so small that only the high water line was used in tracing shore lines.

All the area covered by this sheet was traced from photos Nos. 799-820, taken by the Aero Service Corp.'s H.U.I.-33 fivelens camera.

II. CONTROL:

(A) Sources.

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

- (a) Triangulation by Lieut. Geo. L. Anderson, 1934-1935. The geographic positions of these stations were computed in the North American 1927 Datum (Adjusted).
- (b) Triangulation by Lieut. Wm. D. Patterson, 1934-35.
- (c) Plane table survey by Lieut. Wm. D. Patterson, 1934-35. The geographic positions of these stations were scaled from the plane table sheet.

Station Parker 3 (1934) could not be tied in on photos; consequently, the inshore end of a dock approximately 125 meters north of the station was tied in and its position determined by traverse. This point was used for control and Station Parker 3 (1934) located on sheet by its geographic position.

The control for the area covered by this sheet is adequate except that there are no triangulation stations north of the center line of flight.

Six sheet was complete with the adjusted and among enter transported authority adjusted authority of the completion.

(B) Errors.

Hydrographic station "Tom" would not hold and was, therefore, located by radial line intersection.

(C) Discrepancies.

No discrepancies were found in the compilation of this sheet.

III. COMPILATION:

(A) Method.

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

(B) Adjustment of plot.

Most of the photographs used in the tracing of this sheet were free from excessive tilt and their scale did not differ greatly from that of the projection.

The scales of the various photos are reasonably uniform.

(c) Interpretation.

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

The limits of marsh grass extending beyond the high water line were denoted by broken lines.

(D) Information from other sources.

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

(E) Conflicting names.

No conflicting names were found on the different charts of this area.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets Nos. T-5519 on the west, T-5517 & T-5516 on the south, and T-5515 on the east are satisfactory.

A comparison of this sheet with Chart 184 shows no discrepancies in the general shape of bays, inlets, etc.

A comparison of the shore line, as traced from the photos, was made with that traced from the topo sheets for the area, with the following results:

- (a) Along the shores of East Bay the agreement is reasonably good; the differences noted being five meters or less. Discrepancies were, however, found in the tracing of sand spits which form the entrance to several of the bays or inlets, principally at Latitude 30°07.5' Longitude 85°33.1', Latitude 30°07' Longitude 58°34.6', and Latitude 30°07.2' Longitude 85°35.8'. These discrepancies may be due to differences in interpretation of the shore line or to actual changes in the latter produced by wave or current action.
- (b) At Latitude 30°07.4' Longitude 85°33.7' a small inlet is shown by the field inspection party, which was not located on the topo sheets.
- (c) In the upper reaches of Parker Bayou, Pitt's Bayou, Callaway Bayou, and Liard's Bayou, discrepancies of 15 meters were found. They are probably due to differences in interpretation of the high water line and to inaccurate rod readings and errors in orientation of plane table.

(d) The position for topo station "Tom" as shown on this sheet, Latitude 30°08: 736 m. - Longitude 85°34: 301 m., was determined by radial line intersection, as the original topo position (Latitude 30°08: 749 m. - Longitude 85°34: 311 m.) would not hold. Similarly, for topo station "Pol", the radial line intersection is shown (Latitude 30008: 8 m. - Longitude 85°31' 0 m.) in place of the original topo position (Latitude 30°08' 7 m. - Longitude 85°31' 0 m.). In the first case the position was changed 18.0 m., and in the second 1.0 m.

Corrections made by ack 8/13/35

(e) At points where discrepancies occur, the radial line plot has been doubly checked, and the high water line as shown on this compilation is believed to be correct.

.V. LANDMARKS:

The list of landmarks of value to navigation in this area will be submitted by Lieut. Wm. D. Patterson'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 needed.

H. A. Buttere, fr. Submitted by: H. A. Butters, Jr., Draftsman.

Approved by:

Chief of Party.

GEOGRAPHIC NAMES

Date. July 3, 1935

Survey	No.	T-	5	51	.8	

Chart	No 3	L84		
Ullait	140. =	ter C . sin	 	 _

Florida

Diagram	No.	
	-	

Approved by the Division of Geographic Names, Department of Interior.

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

Under investigation. Q

v Applied to 896 Sett. 5-24-46

V Applied to 876 July , 5-24-46							
Status Name on Survey		Name on Chart	New Names in local use	Names assigned by Field	Location		
	Bay Harbor	Same					
V	Martin Gainers Bayou	✓ n					
V	Callaway Bayou*	· II					
V	Parker	ν π					
v	Parker Bayou	у п					
W	Pitt Bayou	/ 11					
~	Long Point	/ 11					
2	Lairds Point	/ 11					
	Lairds Bayou	≠ n					
	Cook	1 11					
	Didi Point *	TT.					
age. V	East Bay	11					
V	Callaway	¥					
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		APPROVED NAMES					
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		Jett .			(M-136		

REVIEW OF AIR PHOTO COMPILATION T-5518.

Comparison with Graphic Control Surveys.

(a) T-6282 (1934) 1:10,000. -

T-6282 covers the short stretch of shoreline east of Didi Point for T-5518.

There are only minor differences (10 meters) in the high-water line between T-6282 and T-5518. T-5518 is accepted as correct.

(b) T-6283 (1934) 1:10,000.

T-6283 covers the northern shore of East Bay from Callaway Bayou, to Didi Point for T-5518. There are several minor discrepancies in the highwater line of the northern shoreline of East Bay.

The greater differences (up to 20 meters) occur in Callaway Bayou and Lairds Bayou where planetable traverse was run without check. The highwater line as shown on T-5518 is accepted as correct in all cases.

(c) T-6284 (1934) 1:10,000.

T-6284 covers the northern shore of East Bay from approximately west of Callaway Bayou to Gainers Bayou for the air photo compilation. Comparison shows several minor discrepancies in the highwater line. Although the Descriptive Report for T-6284 suggests using the rodded shoreline in Parker and Pitts Bayous, where discrepancies of 46 meters and 18 meters, respectively, are shown, the air photo compilation party checked the radial plot and T-5518 is accepted.

(d) All detail on T-6282, T-6283 and T-6284 within the area of the compilation is now shown thereon, except the magnetic declination and the temporary planetable stations and as mentioned above.

Comparison with Previous Topographic Surveys.

(a) T-477 (1855) 1:20,000.

T-477 covers the shoreline of Gainers Bayou and the shoreline at entrances to Parker and Pitts Bayous for the air photo compilation.

The general shape of the shoreline of these bayous as shown on T-477 agrees closely with same shown on the air photo compilation. This compilation is adequate to supersede T-477, except for the contour.

(b) T-1146 (1870) 1:20,000.

T-1146 covers the northern shoreline of East Bay from Parker Bayou to the small unnamed bayou east of the entrance to Callaway Bayou for T-5518. Comparison shows small changes in shoreline. This compilation is adequate to supersede T-1146.

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

T-1147b covers the northern and eastern shore of East Bay from Callaway Bayou to Didi Point and the shoreline of Callaway and Lands Bayous for T-5518. On comparison of the two an approximate difference of + 200 m. is noted. In general the shoreline agreement between T-1147b and T-5518 is good. This compilation therefore is adequate to supersede T-1147b.

(d) More bluffs are shown on these old surveys than appear on T-5518. The area was thoroughly field inspected and the photographs examined under the stereoscope, and all bluffs of consequence to charting are shown on T-5518.

Comparison of Contemporary Hydrographic Surveys.

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

There are no conflicts between H-5781 and T-5518.

(b) H-5782 (1935) 1:10,000.

There are no conflicts between H-5782 and T-5518.

Comparison with Chart 184 (1930-1931) 1:80,000.

Corrections to the chart as a result of this survey have been discussed in the comparison with previous surveys.

Landmarks.

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

Aids to Navigation.

Beacons in this area on Chart 184 are shown on T-5518 (from chart letter 467 (1935). There are no lights in this area on Chart 184 nor in the 1935 Light List.

Remarks.

This compilation is believed to have a probable arror of not more than 5 meters for intersected points and 10 meters for other detail.

Hank G. Endine Bagones

August 28, 1935.

REVIEW OF AIR PHOTO COMPILATION NO. T-5518

Chief of Party: M. H. Reese Compiled by: H.A.Butters, Jr.

Project: Florida Compilation Instructi

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 1; 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)

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 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.

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 mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

Yes.

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, rests, sorul rests, and legends pertaining in them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Due to the small difference between low and high water lines couly 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)

Yes.

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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 Lieut. Wm. D. Patterson.

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)

Yes.

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 and the reference station is correctly noted.

Yes.

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

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 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;

Chief of Party

19. Remarks after review in office:

Reviewed in office by:

Frank & Enkine, B. g. goras

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief. Section of Field Work

Chief, Division of Hydrography and Topography.