

5516

U. S. COAST & GEODETIC SURVEY
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Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5516
~~Hydrographic~~

State Florida

LOCALITY

~~East Bay~~

~~Goose Point to Tarndale~~

VICINITY OF ST. ANDREW SOUND

CROOKED ISLAND

1935

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

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Applied to Chas. 1263 - March 1938 - W.S.B.
Applied to boat 868 Aug 1946 W.S.B.

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.

REGISTER NO. T-5516 '84

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

General locality.....East Bay VICINITY OF ST ANDREW SOUND

Locality.....Goose Point to Ferdale CROOKED ISLAND

Scale.....1:10,752.6.....Date of ^{photographs} ~~survey~~ 9/13 & 9/7, 1934

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

Chief of party.....M. H. Reese.....

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

Inked by.....H. C. Moore.....

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 1:10,752.6 and enlarged and
printed on scale of 1:10,000 by photolithography. Scale
factor 0.93.

- STATISTICS -

on

SHEET, FIELD NO. _____, REG. NO. T-5516
 C-79 C-84
 PHOTOS, NO. 982 TO NO. 999
 9/13/34 9:20 a.m.
 DATE OF PHOTOGRAPHS 9/7/34 TIME 1:30 p.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	<i>L. L. Wright</i> L. L. Wright	2/16/35
SCALE FACTOR (0.93)	<i>J. O. Coignet</i> J. O. Coignet	2/16/35
SCALE FACTOR CHECKED	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	2/16/35
PROJECTION	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	2/18/35
PROJECTION CHECKED	<i>H. C. Smith</i> H. C. Smith	2/18/35
CONTROL PLOTTED	<i>H. C. Smith</i> H. C. Smith	2/19/35
CONTROL CHECKED	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	2/19/35
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<i>H. C. Ingerson</i> H. C. Ingerson	2/23/35
RADIAL LINE PLOT CHECKED	<i>E. P. Hernandez, Jr.</i> E. P. Hernandez, Jr.	2/25/35
DETAIL INKED	<i>H. C. Moore</i> H. C. Moore	3/5 - 3/8/35
	<i>E. L. Fitch</i> E. L. Fitch	3/18 - 3/28/35
PRELIMINARY REVIEW OF SHEET	E. L. Fitch	5/1/35.

TOTAL AREA OF SHEET 29.1 sq. Statute Miles
 AREA OF DETAIL INKED 18 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)
 36.8 Statute Miles
 LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
 34.0 Statute Miles

GENERAL LOCATION ~~East Bay~~ VICINITY OF ST. ANDREW SOUND

LOCATION ~~Goose Point to Farmdale~~ CROOKED ISLAND

DATUM North American 1927 Unadjusted ✓

STATION *Bird 1935*
~~U.S.E. 23~~

Latitude $30^{\circ} 01' 55.351''$ (1704.4)
 ~~$30^{\circ} 03' 04.067''$ (125.2 m.)~~
 Longitude $85^{\circ} 30' 23.686''$ (634.6)
 ~~$85^{\circ} 30' 39.833''$ (1067.1 m.)~~

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5516

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

Information used in the compilation of this sheet was obtained from notes and sketches on the field photographs and from members of the field inspection party.

The land area of this sheet consists of cut over pine and low swamp land. There is a settlement known as Farmdale and an abandoned town called Bellisle. The shore along St. Andrews Sound is marshy. Crooked Island is a strip of sandy flats with occasional dunes sparsely covered with grass, brush and pine.

Beacons, U.S.E. stations, ~~used~~ ^{located by top party} used for control on this sheet, and station reference marks are marked with a 2.5 mm circle.

The range of tide in this area is 1.3 feet. The difference between the high and the low water-line is so slight that only the high water-line was used in tracing the shore line. This was indicated on photos by the field inspection party.

This sheet was compiled from photographs taken by the Aero Service Corporation, five lens camera H.U.I.-33, and from single lens prints. Photographs C-79 to C-84 run approximately north-west along the Gulf and photos 982 to 999 run parallel to this flight.

II. CONTROL:

(A) Sources.

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

- (a) ~~Triangulation by E. S., 1910.~~
- (b) Triangulation by Geo. L. Anderson, 1934-35.
- (c) Triangulation by Wm. D. Patterson, 1934-35.

Stations ASP and ARROW could not be found, but their reference marks were located and they were used for control. ✓

The geographic positions of these stations were computed ~~on~~ ^{from} the North American 1927 Datum (~~Unadjusted~~) *Adjusted values*

No control established by other organizations was used in this compilation.

(B) Errors.

The control used was found adequate for the radial line plot.

(C) Discrepancies.

No discrepancies in the geographic positions of the control stations were found.

III. COMPILATION:

(A) Method.

The usual radial line method of plotting was used in this compilation.

(B) Adjustment of plot.

No more than the usual amount of tilt and scale distortion was encountered.

(C) Interpretation.

Only graphic symbols approved by the Board of Surveys & Maps (1932) were used in this compilation, except the symbol (ξ) to denote brush.

(D) Information from other sources.

None.

(E) Conflicting names.

There are no conflicting names.

(F) New names.

Several new names were submitted by the field inspection party. They are:

and Sup. Party

Maddox Bayou
Blind Alligator Bayou
Strange Bayou
Strange Point
Little Oyster Bay Point
Baker Point
Baker Bayou
Miller Point) *Noted as MURRAY on overlying sheet*
Miller Bayou)
Davis Point

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheet T-550³ to the southeast, sheet T-5515 to the northeast, and with sheet T-5517 to the northwest are all satisfactory.

The town of Bellisle as shown on previous charts is now abandoned, according to reports of the field inspection party. Crooked Island has changed shape considerably, moving out into the Gulf, and flattening its turns. Goose Point has broken away from the mainland, into a number of small islands.

Comparison of this sheet with the plane table sheets of Lieut. Wm. D. Patterson shows some variation of shore line. In Maddox Bayou, the rodged shore line is rather uniformly drawn about 5 to 10 meters west of this shore line. There is a discrepancy of almost 20 meters starting just east of U.S.E. 17. Two docks in that area do not agree. There is a slight difference in the mouth of Baker Bayou. Another disagreement occurs along the northern tip of the bayou just north of Blind Alligator Bayou. About 300 meters west of U.S.E. 23 there is a discrepancy of about 20 meters for almost 150 meters. The mouth of the first stream west of Station CAN disagrees, falling about 20 meters east of the shore line of this sheet. Northeast of the mouth of the large stream below Goose Point there is a shore line difference of 5 to 20 meters for about 200 meters. The southern part of the large island formed by the breaking away of the tip of Goose Point has an error of from 5 to 20 meters. Point north of Beacon #4 and west of U.S.E. 20 is off approximately 30 meters.

There are also numerous slight discrepancies of less than 5 meters all along the southern shore of East Bay.

V. LANDMARKS:

The list of landmarks of this area is being 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 necessary.

H. C. Moore
Submitted by: H. C. Moore,
Draftsman.


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

MEMORANDUM TO ACCOMPANY SHEET NO. T-5516.

The high water line of this sheet was rodded by Lieutenant Patterson's party. The shore line from the aluminum sheet was transferred to the celluloid compilation before the radial line plot was made. Extreme caution was used to determine the causes of the various discrepancies which exist. The radial line plot of the area in the vicinity of Maddox Bayou was rerun three times, but we were unable to make it agree with the rodded shore line. It seems that the topographic party apparently got off in azimuth when going up in this bayou, as the difference in the compilation is fairly uniform.

The errors on the sheet have been taken care of in the Descriptive Report, and I attribute the differences between the compilation and the topographic data to: (1) errors in rod readings; (2) misinterpretation of the high water line by the topographic and field inspection parties. The day marks and marked stations were scaled from Lieut. Patterson's aluminum sheet and transferred to the compilation.

A close inspection along the shore line will reveal the differences between the two surveys, as the shore line shown in light blue is as obtained from the plane table sheet.


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

Date. August 28, 1935 GEOGRAPHIC NAMES

Survey No. T- 5516

Chart No. 184 - 1263

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Goose Point</u>	✓ Same			
	<u>Little Oyster Bay Point</u>	✓	Same		
	<u>Blind Alligator Bayou</u>	✓			
	<u>Davis Point</u>	✓			
	<u>Murray Bayou</u>	✓			
	<u>Strange Bayou</u>	✓			
	<u>Strange Point</u>	✓			
	<u>Baker Point</u>	✓			
	<u>Baker Bayou</u>	✓			
	<u>Murray Point</u>	✓			
	<u>Crooked Island</u>	✓ Same			
	<u>St Andrew Sound</u>				
	<u>Maddox Bayou</u>	✓	Same		
	<u>Wild Goose Lagoon</u>	✓ Same			
	<u>Farmdale</u>	✓			
	<u>East Bay</u>				
	<u>Gulf of Mexico</u>				
	Names underlined in red are approved.				
		W.J.Woods			
		<i>W.J.Woods.</i>			

Review of Air Photo Compilation T 5516

Scale 1:10,000

Comparison with Graphic Control Surveys

(a) T 6281 (1934), 1:10,000 .

T 6281 covers the southwestern shore of East Bay from Little Oyster Bay Point southeastward and part of the northern shore at Murray Bayou for T 5516.

There are several minor differences in the high water line between T 6281 and the air photo compilation. Because of the marshy and shallow shore along this bay, discrepancies in the judgment of the high water line are unavoidable but that shown on the air photo compilation is believed to represent about the true determination.

A discrepancy of 25 meters maximum exists in the high water line along Maddox Bayou, between the graphic control survey and the air photo survey. Wm. D. Patterson in his descriptive report for T 6281 suggests using the high water line of the air photo compilation. This has been done and accepted as correct.

All detail on T 6281 within the area of this compilation is shown thereon except the magnetic declination and the temporary stations.

(b) T 6282 (1934), 1:10,000 .

T 6282 covers the southwest shore of East Bay from Goose Point to Little Oyster Bay Point for T 5516.

There are several minor differences in the high water line between T 6282 and the air photo compilation. A 21 meter discrepancy in the high water line exists about 400 meters west of Little Oyster Bay Point. The high water line as shown on this compilation (T 5516) is accepted.

All detail on T 6282 within the area of the compilation is shown thereon except the magnetic declination and the temporary stations.

There are no graphic control surveys covering the shoreline of St. Andrews Sound and the outer Gulf coast.

Comparison with Previous Topographic Surveys

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

T 477 covers the lower half for the air photo compilation sheet. A comparison of the high water line between this compilation and T 477 indicates fair general agreement of the shoreline. This compilation is adequate to supersede T 477 except for the contours.

(b) T 1147 b (1870), 1:20,000

T 1147 b covers the southwestern shore of East Bay for the air photo compilation. Comparison shows up an approximate difference of 250 meters. ~~In general the shoreline agreement is good except at Goose Point, where changes have actually taken place.~~ This compilation is adequate to supersede T 1147 b.

Comparison with Contemporary Hydrographic Surveys

(a) H 5780 (1935), 1:10,000

There are no conflicts between H 5780 and T 5516.

(b) H 5781 (1935), 1:10,000

There are no conflicts between H 5781 and T 5516.

Comparison with Chart No. 184, 1:80,000

Corrections to the chart as a result of this survey have been discussed in the comparison with previous surveys. There are no contemporary hydrographic or topographic surveys covering the shoreline of Crooked Island. The outline of the island as shown on this compilation is accepted, and the difference with the old surveys attributed to shoreline changes.

Landmarks

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

Aids to Navigation

All beacons in the area covered by this compilation on chart No. 184 are on T 5516 (from Chart letter No. 467 (1935)). There are no lights in the area covered by T 5516 nor in the 1935 Light List.

Remarks

This compilation is believed to have a probable error of 0.3 mm. to 0.5 mm. for intersected points and 0.3 mm. to 0.8 mm. for other detail.

All bluffs of charting value are shown on T 5516.

A. T. RANNUSS
Aug. 21, 1935.

Frank G. Eakin, B.G.

A.T. Rannus

REVIEW OF AIR PHOTO COMPILATION NO. T-5516

Chief of Party: M. H. Reese

Compiled by: H. C. Moore

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)

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 were necessary.

- ✓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 ~~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.

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)

High water line was drawn as indicated by the field inspection party on the 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 ^{high} ~~low~~ water lines, ~~reefs, coral reefs and~~
~~rocks, and legends pertaining to them~~ is satisfactory. (Par.
36, 37, 38, 39, 40, 41)

Yes.

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)

Submitted by 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 to navigation.

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)

Mentioned in descriptive report and shown on overlay tracing.

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

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

Yes.

15. The drafting is ~~satisfactory~~ ^{fair} 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:


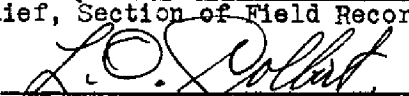
~~18.~~ Examined and approved;

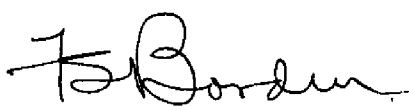
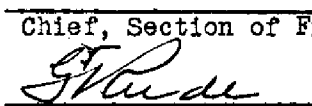

M. H. Reese
Chief of Party

19. Remarks after review in office:

Reviewed in office by: 

Examained and approved:


Chief, Section of Field Records

Chief, Division of Charts


Chief, Section of Field Work

Chief, Division of Hydrography
and Topography.