5521
5523

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-5521 & T-5523

State Florida

LOCALITY
T 5521
St. Andrew Bay
~~West Bay~~
T5523
WEST BAY
WEST BAY CREEK & VICINITY

1934

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

Top 5521 applied to Chr 1263 - Jan 1938 - [illegible]
" 5523 " " " " " " [illegible]
Top 5523 applied to chart 1264 Jan. 31, 1938 g. H. S.
" 5521 " " " 489 Feb. 13, 1943 g. H. S.
Applied to SWW #869 Sept 1946 [illegible]
applied to chart 870 July 1946 [illegible]

Form 537a
Ed. Nov. 1929

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. T5521 T5523

REGISTER NO.s. T-5521 & T-5523.

State: Florida

General locality: ~~West Bay~~ St. Andrew Bay

Locality: ~~Hathaway Bridge to Philip's Inlet~~ West Bay

Scale: ~~1:21,052~~ 1:20 000 * Date of ~~survey~~ photos 7/21 & 9/7, 19 34

~~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: F. A. Donadieu

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

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

Instructions dated June 7, 19 34

Remarks: Compiled on scale of 1:21,052. Enlarged and printed by photolithography on scale of 1:20,000. Scale factor 0.95.

* Temporary Block line contact Print on scale 1:21,052

Compiled as one sheet. Made into two sheets to facilitate printing.
Bgg.

- STATISTICS -

on

SHEET, FIELD NO._____, REG. NOS. T-5521 & T-5523

PHOTOS, NO. 725 1013 TO NO. 74~~3~~4 1034

DATE OF PHOTOGRAPHS 7/21/34 9/7/34 TIME 8:00 a.m. 2:00 p.m.

	BY	DATE FROM	TO
ROUGH RADIAL PLOT	L. L. Wright	4/4/35	
SCALE FACTOR (0.95)	L. L. Wright	4/4/35	
SCALE FACTOR CHECKED	M. H. Reese	4/4/35	
PROJECTION	E. P. Hernandez, Jr.	4/5/35	
PROJECTION CHECKED	G. O. Coignet	4/5/35	
CONTROL PLOTTED	H. C. Smith	4/8/35	
CONTROL CHECKED	S. S. Gill	4/9/35	
TOPOGRAPHY TRANSFERRED			
TOPOGRAPHY CHECKED			
SMOOTH RADIAL LINE PLOT	H. C. Smith	4/9-13/35	
RADIAL LINE PLOT CHECKED			
DETAIL INKED	F. A. Donadieu	4/22-30/35 5/6-18/35	
PRELIMINARY REVIEW OF SHEET	H. C. Carefield	6/6/35	

TOTAL AREA OF SHEET 142 sq. Statute Miles
AREA OF DETAIL INKED 107 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) 60 Statute Miles
LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide) 90 Statute Miles

GENERAL LOCATION West Bay

LOCATION Hathaway Bridge to Philip's Inlet

DATUM North American 1927 (Unadjusted)

Reference Station T-5523
Wye, 1935
Lat. 30° 13' 21."962 (676.2 m)
Long. 85° 53' 27."693 (740.5 m)
(Unadjusted)

STATION SWAN 2 - 1910-1935 (Unadjusted) T-5521

Latitude 30°14'12.~~505"~~ 504 (385.0 m.)
Longitude 85°49'22.~~770"~~ 764 (608.~~8~~ 6 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NOS. T-5521 & T-5523

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The 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 in areas where the draftsman could not determine the exact nature of the detail from the photographs.

The names appearing on this sheet were obtained from U.S. C. & G. Survey Charts Nos. 184 and 185, U. S. Geological Survey Map of Florida, and from the field inspection party.

Control Station NORTH BAY PT., established in 1870, is now outside the high water line. Its position was computed in 1935 on the North American 1927 Datum (Unadjusted). This station will probably be lost within a short time.

The area covered by this sheet consists of swampy land, having numerous streams cutting up its area, small lakes, ponds, a large bay in the eastern section, some marshy areas along the bay and streams, cut-over timber land, grass areas, and trails. A macadam road, Florida Highway No. 115, follows the Gulf shore, and another branches to the north, Florida Highway No. 10, at the center of the sheet; a graded sand road branches off from the macadam road north of West Bay River and runs east.

Cultivated areas and houses are found along the streams in this area, and some near the highways and sand roads. Houses are found along the road paralleling the Gulf shore, and a bathing resort is located at Long Beach.

In most ofthe wooded area on this sheet are found numerous fire trails and fire breaks. These are too numerous to be shown on the sheet, but these areas are indicated on the overlay sheet. Only the main trails through these areas are shown on the compilation. The graded sand roads, which are in use, are shown with double broken lines. These sand roads are used mainly by trucks, transporting lumber, and by crews from turpentine camps located in this area.

In the settlement of West Bay, a few of the houses are shown. This area appears at a distance from the center of the photographs and some of the houses are not shown, as the area is somewhat blurred and the exact nature and position of objects could not be accurately determined.

The shore lines on this sheet were drawn as determined by the field inspection party in all accessible places. The draftsman of this sheet was a member of the field party in some of the areas.

Along the Gulf shore, measurements, at intervals of approximately one mile, were taken from the center line of the highway, paralleling the Gulf, to the high water line, and were used in locating the high water line in this area.

In some marshy areas along West Bay the exact position of shore line was very hard to ascertain, and in some cases impossible, in which places the shore line is shown broken. In some places the marshes become covered by water at very high tides, and also some of the sand flats shown along the Bay.

The range of tide in this area is approximately one foot, and there is very little difference between the high and low water mark, except as stated above. The high water line, as determined by the field inspection party, is shown on this sheet.

The area covered by this sheet was traced from photographs made by the Aero Service Corporation's five-lens camera H.U.I.-33-C: Photographs Nos. 725 to 745, inclusive, running approximately northwest; and Nos. 1013 to 1034, inclusive, running approximately northwest.

II. CONTROL:

(A) Sources.

The sources of control used in the compilation of this sheet are:

(a) Triangulation by Lieut. George L. Anderson; March-April 1934, and January to March 1935.

(b) Triangulation by Lieut. Wm. D. Patterson, 1934-35.

The control for this sheet is adequate and all except that mentioned below was computed from the North American 1927 Adjusted Datum.

The following names stations are on the North American 1927 Adjusted Datum:

BURNT	1934-35
MEDWAY 3	1934-35
ORCUS 3	1934-35
WEST	1934-35
CRANE PT. 2	1934-35

(B) Errors.

There were no errors in control used on 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 tracing this sheet were free from excessive tilt, but were not very close to the scale of the projection so that more than the usual adjustment was necessary in the tracing.

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

(C) Interpretation.

The graphic symbols used are those authorized by the Board of Surveys and Maps, 1932, except the symbol (⸮) used to denote brush in general.

A circle 2.5 mm. in diameter was used to denote topographic stations plotted on this sheet, that were scaled from the aluminum sheets.

(D) Information from other sources.

The position of the wharf at the entrace of West Bay River and positions of topographic stations plotted on this sheet, as described above, were obtained from Lieut. Wm. D. Patterson's topographic sheets.

(E) Conflicting names.

On charts of the U.S. C. & G. Survey, the name "St. Andrew Bay" appears, while on U. S. Geological Survey charts it is "St. Andrews Bay". The name as appearing on the U.S. C. & G. Survey charts was used.

The name of the body of water shown on previous charts as "Philip's Inlet" is no longer in use, but is known as "Powell Lake" among the residents of this area. However, the inlet connecting the lake with the Gulf of Mexico is known as "Philip's Inlet". The inlet is intermittent and is only open during extremely high tides. This information was obtained by the field inspection party from residents of this area, and it is recommended that the above names be adopted.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets to the East (T-5522), Southeast (T-5519 and T-5520), and to the Northwest (T-5524 and T-5525) are satisfactory.

In comparing this sheet with the topographic sheet of this area by Lieut. Wm. D. Patterson, it was noted that the shore line and the entrance to streams corresponded very well, except the position of the stream and small island at approximate Latitude 30°15'50" and Longitude 85°42'05", in which there is an error of ~~10~~ 20 meters. T-6306

The two streams between Latitude 30°13' and 30°14' - Longitude 85°46' and 85°46'30" check with topographic sheet in shape, but a shifting in position of about ~~15~~ 5 meters is noted as the distance from the inlet increases. Photographs were re-oriented and checked, and no reason for this difference could be found. T-6305

There is a discrepancy of about ~~10~~ 5 meters in the shoreline of a small marsh island at approximate Latitude 30°17'40" and Longitude 85°51'30". T-6305

A small error of approximately 15 meters is noted in the shore line at approximate Latitude 30°16'50" and Longitude 85°51'10", where a small stream enters the Bay. T-6305

V. LANDMARKS:

Landmarks of value to navigation in this area are submitted by the hydrographic party under 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 required.

Submitted by: F. A. Donadieu,
Draftsman.

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

This compilation is considered correct within 0.3 to 0.5 m.m. for intersected points and 0.3 to 0.8 m.m. for other detail.
T.S.E.

Survey No. T- 5521-23

GEOGRAPHIC NAMES

Date. July 10, 1935

Chart No. 184 & 185

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

✓ Applied to Chart 867 [illegible] 5-24

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
✓	✓ West Bay Creek	✓ Same			
✓	✓ Graze Point	✓			
✓	✓ Cedar Point	✓			
✓	✓ Burnt Mill Creek	✓			
✓	✓ Walsonham Point	✓			
✓	✓ Doil Bayou	✓			
✓	✓ Crooked Creek	✓			
	✓ Powell Lake				
✓	✓ Warren Bayou	✓			
	~~Phillips Inlet~~ Not on standards Bgg.				
✓	✓ West Bay	✓			
✓	✓ Breakfast Point	✓			
✓	✓ Long Point	✓			
✓	✓ West Bay Point R ~~Q~~	✓ USGB decision			
✓	✓ North Bay	✓			
✓	✓ Shell Point R ~~Q~~	✓ USGB decision			
✓	✓ Big Johnson Bayou	✓			
✓	✓ Botheration Bayou	✓			
✓	✓ Sulphur Point	✓			
✓	✓ St Andrew Bay	✓			
✓	✓ Grand Lagoon	✓			
✓	Murfee.				

Names underlined in red are approved.

W J Woods

(M-136)

REVIEW OF AIR PHOTO COMPILATIONS T-5524 AND T-5523

Scale 1:20,000

Comparison with Graphic Control Surveys

T-6303 (1935), 1:10,000

Covers only a small portion of Grand Lagoon in the southeast corner of this survey.

No discrepancies.

T-6304 (1935), 1:10,000

Covers extreme eastern part of this survey.

There are only a few minor discrepancies, all of which are probably due to interpretation.

T-6304 shows a low water line south of Hathaway Bridge which is not shown on this survey.

T-6305 (1935), 1:20,000

Covers major portion of this survey.

The three discrepancies mentioned on page 5 of the descriptive report have been investigated and the air photo compilation is accepted as correct.

Sketching was done across the entrance to several small streams on T-6305.

A local pole beacon (station REG), a pile (station ROE), and the centerline of the proposed canal in West Bay Creek were transferred to this survey.

Signal TRI, tripod of piles, falls in an area where the compilation shows five piles. This signal was not transferred.

Quite a difference in interpretation is noted in Johnsons Bayou. The compilation is accepted.

Four flags used to mark dredging operations were not transferred from T-6305 to the compilation.

The scaling of six described stations was found in error. These were corrected.

T-6306 (1935), 1:20,000

Covers extreme eastern part of this survey.

As mentioned on page 5 of the descriptive report, at 30° 15', 85° 42' a 20 meter difference in shoreline exists. The compilation is accepted.

T-6306 shows a small stretch of low water line which is not shown on this survey.

All detail on T-6303, T-6304, T-6305, and T-6306 common to this survey is shown except mangetic meridians, temporary signals, low water lines, and as mentioned above, signal TRI and four flag dredging markers.

Comparison with Previous Topographic Surveys

T- 477 (1855), 1:20,000
T-1146 (1870), 1:20,000
T-1147a (1870), 1:20,000
T-1187 (1871), 1:20,000
T-1358a (1872), 1:20,000

Very few material changes have taken place in this area since these old surveys. The major change consists of the construction of the Hathaway Bridge which caused Sulphur Point to be built out.

T-5521 and T-5523 are adequate to supersede the above surveys over the common area except for contours.

Comparison with Contemporary Hydrographic Surveys

H-5812 (1935), 1:20,000
H-5783 (1935), 1:10,000

There are no conflicts with the hydrography.
There is a wreck on H-5783 which has not been transferred to this survey.

Comparison with Charts 184 and 185

T-5521 and T-5523 are adequate for corrections and additions to the charts, the major additions being roads and bridges.

All landmarks and aids to navigation submitted by the field are shown on this survey.

Frank G. Erskine

July 18, 1936. Frank G. Erskine.

REVIEW OF AIR PHOTO COMPILATION NO. T-5521 - T-5523

Chief of Party: M. H. Reese Compiled by: F.A.Donadieu

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)

   All changes are discussed 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.

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)

   Tracing of high-water line discussed in 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." M-67

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)

No low water line was shown because of the small difference between high and low water line.

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)

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)

By hydrographic party. chart letter #467 (1935)

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 (Unadjusted) and the reference station is correctly noted.

~~Stations CRANE PT. 2, MEDWAY 3, ORCUS 3, WEST, and BURNT are on the N.A. 1927 Adjusted Datum.~~

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:

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. Erskine

Examained and approved:

C. K. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

L. O. Colbert
Chief, Division of Charts

M. H. Reese
Chief, Division of Hydrography and Topography.