

5235

LIBRARY AND ARCHIVES

DEC 17 1934

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

NOV 21 1935

Acc. No. _____

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

_____, Director

State: Florida

DESCRIPTIVE REPORT

Topographic } Sheet No. 5235
Hydrographic }

LOCALITY

Florida East Coast

Little Talbot Island Pt. George River

TALBOT ISLAND

1934

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1928

5235

applied to ch 577 (small correction) 10/10/40 P.B.G.

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. 5235

State Florida

General locality Florida East Coast

Locality Little Talbot Island and Ft. George River

Scale 1/10,000 Date of photographs: 11-24-33
Date of ~~survey~~ Comp. 11-26-33, 19

Vessel Air Photo Compilation Party #18

Reviewed and recommended for approval:

Chief of party Lieut.(j. g.) S. B. Grenell

Photographs plotted by: F. B. Hickman
~~Surveyed by~~

Inked by G. F. Lenoir, Jr.

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 10, 19 33

Remarks: Compilation of aerial photos Nos: (790) M-40 to 51;

(790) M-111 to 121

...

--NOTES OF COMPILATION--

One copy of this form must accompany each chart from beginning to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnell will endeavor to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the chart compiled is based upon the information contained herein.

SHEET No. 5235

PHOTO NO. ^{(790) M-40}
(790) M-111 to PHOTO NO. ^{(790) M-51 Nov. 24-33 12:50-1:10}
(790) M-121 Nov. 26-33 12:00-12:10

BY	START	FINISH
ROUGH RADIAL PLOT _____	_____	_____
SCALE FACTOR () _____	_____	_____
SCALE FACTOR CHECKED <i>S. B. Grenell</i> _____	_____	_____
PROJECTION <i>A. M. Gruber</i> _____	6-19-34	6-19-34
PROJECTION CHECKED <i>F. B. Hickman</i> _____	6-20-34	6-20-34
CONTROL PLOTTED <i>A. A. Putral</i> _____	6-21-34	6-22-34
CONTROL CHECKED <i>F. B. Hickman</i> _____	6-22-34	6-22-34
TOPOGRAPHY TRANSFERRED _____	_____	_____
TOPOGRAPHY CHECKED _____	_____	_____
SMOOTH RADIAL LINE PLOT <i>F. B. Hickman</i> _____	6-25-34	7-3-34
RADIAL LINE PLOT CHECKED <i>S. B. Grenell</i> _____	7-3-34	7-3-34
DETAIL INKED <i>G. F. Lenoir, Jr.</i> _____	7-16-34	9-17-34
AREA DETAIL INKED <u>24.1</u> _____	Square Statute Milos	
LENGTH OF SHORE LINE OVER 200m. <u>14.5</u> _____	Statute Milos	
LENGTH OF SHORE LINE UNDER 200m. <u>70.9</u> _____	Statute Milos	
GENERAL LOCATION _____	Florida East Coast	
LOCATION _____	Little Talbot Island and Ft. George River	
DATUM STATION <u>Ribault Club Water tank, 1932</u> _____	<u>37.742" (1162.2)</u>	
DATUM STATION <u>Ft. George Tank, 1933</u> _____	LATITUDE <u>30° - 25' + 1163.2 meters (adjusted)</u>	
DATUM <u>N. A. 1927</u> _____	LONGITUDE <u>81° - 25' + 31.079" (829.4)</u>	

(corr by REF 10-8-40)

unadjusted

INSPECTION REPORT

Sheet #5235

REFERENCE:

In reviewing this sheet in the Washington office, reference should be made to the General Report for Single Lens sheets filed with sheet #5206

GENERAL INFORMATION:

This sheet extends southward from Nassau Sound to Latitude 30° - 25' where a junction will be made later with single lens flights covering the St. Johns River. the

This sheet is similar in topographic detail to the other sheets of the Inside Route and offers few features worthy of special note. In Lat. 30° - 27/29', Long. 81° - 27/28' Gunnison Cut is bordered with a network of small creeks and flooded marsh areas which were difficult to reproduce on the sheet. This detail has been put in carefully and shows the actual conditions as accurately as possible. The actual edge of the dredged cut has been shown in places by a line of sand dots where the shading in the water areas indicated the limit of dredging.

The vegetation in the wooded areas consists primarily of mixed oak and pine with a scattering of palm and scrub palmetto along the borders of the wooded area.

The highwater line along the outer coast was indicated in most places by the line of drift visible in the photographs. The north end of Talbot Island is a sand dune formation which is constantly shifting where not covered with vegetation with the result that the highwater line varies considerably from time to time - particularly after heavy storms which tear up the beach.

CONTROL:

With the exception of a few scattering stations established at various times the triangulation control came from the coordination scheme of C. M. Durgin, 1932-33. This scheme included many U.S.E.D stations along the inside route which tied in to our control by Lieut. Durgin. No topographic control was used on this sheet but various sections of shoreline from the plane table control sheets were used to check the compilation. All discrepancies were carefully investigated and corrections made.

LANDMARKS FOR CHARTS:

Form 567, a list of landmarks, will be submitted by H. A. Paton, 1934.


COAST PILOT NOTES:

Coast pilot notes have been submitted by H. A. Paton, 1934

NAMES:

All names appearing on this compilation were taken from current issues of charts.

Respectfully submitted,


S. E. Grenell,
Chief of Party

REPORT OF COMPILATION:

COMPILATION METHOD:

In the compilation of this sheet the standard radial line method was used.

ADJUSTMENT OF PHOTOGRAPHS:

The photographs covering this sheet have about the average amount of tilt, except for a few pictures on the western side of sheet, ie, those covered by strip 111-121. Wherever possible these pictures were not used in tracing. Photos 113 and 115 are unusually distorted due most probably to delayed shutter action of the camera. Neither of these was used in tracing the data for same area being obtained from overlapping pictures. In the smooth radial plot no cuts were used from 115 but 113 was used.

The following control stations as plotted on the photographs fail to hold with same as plotted on the celluloid from their G. P.'s:

Braddock, Cedar USE, Horseshoe, Breward and George. The error in plotting these on the photographs was due to difficulty of selecting good definite tie in points and obscurity of the photos.

These stations are located in marshy area with nothing well defined nearby to accurately tie to while station George is located on the outer edge of the pictures where indistinctness prevented accuracy in tying in.

INTERPRETATIONS:

While several of the photos were a little obscure for accurate control plotting none with the exception of #113 and #115, discussed in paragraph under "Adjustment of Photographs", was difficult to interpret for drafting shoreline and detail therefrom. This interpretation was aided by use of field inspection notes, discussion with members of the field party and by use of the stereoscope.

No special graphic symbols were required for the interpretation since standard symbols adequately conveyed the correct or nearly correct interpretations of the existing conditions as portrayed by the photographs.

INFORMATION FROM OTHER SOURCES:

All information for the compilation was obtained from the photographs, by use of the stereoscope and by discussion with members of the field party.

COMPARISON WITH OTHER SURVEYS:

The northern end of this sheet joins the southern end of sheet 5234. This junction was made satisfactorily, both shoreline and detail co-inciding at the junction. No junction at the southern end has been made pending the compilation of the adjoining sheet to be made in the near future.

In heavily wooded areas only roads or portions of roads that show through the wooded sections are shown. By comparison with

"Intercoastal Waterways - Sapelo Sound to St. Augustine chart #3257 compiled from a previous survey, additional roads are shown on this chart in the vicinity of Fort George Golf Course, Lat. 30° - 27' and Long. 81° - 26' roughly. This is a heavily wooded area and only roads or portions of roads which show up on the photos through the trees were drawn as stated above.

ACCURACY AND COMPLETENESS:

The area as covered by this sheet is complete in every detail as nearly as can be determined from the photographs.

All well defined detail is located with a probable error of not more than 4 meters; less well defined detail with an error not more than 10 meters.

PHOTOGRAPHS:

No.	to	No.	Time	Date	Stage of Tide
(790) M-40		(790) M-51	1:15PM	11-24-33	5/6
(790) M-111		(790) M-121	12:15PM	11-26-33	2/5

G. F. Lenoir, Jr.
G. F. Lenoir, Jr.
Draftsman

Approved: *S. B. Grenell*
S. B. Grenell,
Chief of Party

GEOGRAPHIC NAMES

Survey No.

GEOGRAPHIC NAMES										
Survey No.										
Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
Sawpit Creek ✓										1
Gunnisons Cut ✓										2
Talbot Island ✓										3
Simpson Creek ✓										4
Long Island ✓										5
Broward Creek ✓										6
Mud River ✓										7
Garden Creek ✓										8
Fort George River ✓										9
Fort George Island ✓										10
Black Hammock Island ✓										11
Nassau Sound ✓										12
Sisters Creek ✓										13
Myrtle Creek ✓										14
Deep Creek ✓										15
Horseshoe Creek ✓										16
ATLANTIC OCEAN ✓										17
Cedar Pt. ✓										18
Little Talbot Island										19
Fort George Inlet										20
Pumpkin										21
Pumpkin Hill Creek										22
										23
										24
										25
										26
										27

M 234

Names approved
by C.A. Egnor 1/30/96
(duplicate)

Names checked by
N.H. Heck 11-8-90

Remarks

Decisions

1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
M 234		

The review of T-5235 was completed in June, 1936. The review changed the original 5235 by the addition of a number of Beacons and by minor changes in shoreline.

The Beacons were taken from the graphic control surveys which are filed in the vault and which have been reported to standards. The shoreline changes are minor and do not affect the charts. Therefore, the final Whatman copy which will be filed in the vault upon completion of the printing will include the above changes without indicating the differences with the original file copy.

Note: Finished copy of T-5235 filed original temporary copy withdrawn from vault and filed in Air Photo. Unit.

B. G. Jones
B. G. Jones.
10/4/40

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

AND REFER TO No.

November 20, 1935.

MEMORANDUM: Examination of Air Photo Compilation T 5235 (1934)

Scale 1:10,000

Date of office examination, November 20, 1935

At this date the graphic control surveys and hydrographic surveys in this area and the adjoining compilation to the ~~north~~ ^{South} have not been received in this office.

A chart paper print of this compilation is being registered at this time, in advance of the usual verification and review, for application to chart No. 577.

The printing, and verification and review, of this compilation will be completed upon receipt of the contemporary planetable and hydrographic surveys. *See note on page opposite*

The completed Whatmans copy of this compilation will be numbered T 5235A and will be filed with the present chart paper copy.	PAGE 36 6/11/36 B.
The completed report on verification will be numbered T 5235A and will be filed with the present report.	
The compilation T 5235A will be reported as a new survey to the Cartographic Section and any changes from the present copy will be noted on the "A" sheet or in the "A" report.	

See following review completed 6/11/36.

B. G. Jones
B. G. JONES

11/20/35

L. O. Dolbert

C. K. Green
Chief Sec. Field Records.

T 5235 Applied to drawing of Chart 577 Dec. 17, 1935 - J.F.W.

75 Borden

G. H. Hulse

REVIEW OF AIR PHOTO COMPILATION T 5235A
Scale 1:10,000

Comparison with Graphic Control Surveys

T 6376b (1934), 1:10,000

The high water line on the compilation was changed to agree with T 6376b at the point of difference mentioned on page 2 of the descriptive report for T 6376b. No mention is made in the report, T 6376b, of the difference in shoreline at the southerly tip of Little Talbot Island. This difference amounts to nearly 30 meters in places. As the plane table location was not carried to a junction with the photo topography and is incomplete in itself, it is not used on T 5235. Examination of the photographs fails to show any line that might correspond with the planetable location. As the photographs were taken November 1933 and the plane table survey made in October 1934, the shoreline may have been changed by storms, etc. between the two dates.

T 6376a (1934), 1:10,000

The streams and shoreline near station "Simp", 1934, mentioned on page 2 of the descriptive report T 6376a as being 15 meters too far east on T 5235, have been changed in this office. The 1934 triangulation was not available to the field party and was not plotted on the sheet. Therefore the plane table sheet, being better controlled, was probably more accurate in its location. A check on the radial plot of the compilation showed necessity for revision. The plot was very weak in this area due to lack of control, but after revision checked very closely with the plane table. The differences still existing between the compilation and T 6376a are due to interpretation and change. As the plane table survey was very incomplete, no attempt is made to show its location of high water line. For further discussion see paragraph "High Water Line" further on in this review.

The Engineers bench marks near Beacon "3" in the Fort George River were transferred to the compilation from T 6376b. Plotted by R. M. Berry; checked by L. A. McGann. *Lam.* *R.M. Berry*

All detail shown on the graphic control surveys is now shown on the compilation except for magnetic meridian and temporary topographic stations.

Comparison with Contemporaneous Hydrographic Surveys

H 5910 (1935), 1:10,000

Oct 1934 to Apr 1935

H 5910 covers all the inland waters on the compilation.

Many of the soundings in Pumpkin Hill Creek on the west border of the compilation do not fall inside the creek as shown on the compilation. The creek as shown on H 5910 was enlarged from a single 1:20,000 scale 5-lens photograph which showed the creek very indistinctly

on the outer half of a wing print. The shoreline as shown on the compilation was taken from 1:10,000 single lens photographs. Some revisions were made in the shoreline as previously shown on the compilation in order to allow the soundings to be plotted on the proper route. Soundings in this creek were not located by fixes but only by reference to the shoreline. This has been referred to the verifying unit.

Comparison with Chart 577

The compilation was applied to Chart 577 prior to this review. However, a few points of difference occur. An island is shown at the mouth of Simpson Creek at Nassau Sound. This is now part of the mainland. Simpson Creek may be used by very small boats as a through passage from Nassau Sound to Fort George River. It is shown on Chart 577 as two separate creeks.

The position of Fort George River Beacon No. 1 is being changed by hand in the Distribution Branch to correspond to the position as shown on the compilation.

High Water Line

The field inspection with the photographs in this area is inadequate. No field location of high water line is made on the photographs. A line of drift, mentioned on page 2, paragraph 5, descriptive report T 6376a, shows on the photographs but no statement is made as to whether this line was examined in the field. Examination of the photographs in this office indicates that this line of drift is along a low ridge of sand which is actually storm water line. The width of sand between this ridge and the edge of the water does not exceed 20 meters except at lat. 30° 28.6', (where it increases to 30 meters), and the probable error in H.W.L. is not more than 10 to 15 meters which is not large enough to affect the compilation's use for charting.

Around the south tip of Little Talbot Island, south of lat. 30° 25.1', the photographs show a wide expanse of white sand and the only line visible is the edge of the wet sand, at which the H.W.L. has been placed on the compilation. The tide was at 5/6 height at the time the photographs were taken and this indicates little error in the assumption of the position of H.W.L.

Examination of the photographs reveals no line that would fit the H.W. line given on T 6376a and b at the north and south ends of Little Talbot Island, and the difference is evidently due to change during the 10 months interval between the date of the photographs and the date of the plane table surveys (T 6376a and b).

Landmarks and Aids to Navigation

Triangulation station Mt. Cornelia, 1853 was plotted on the compilation in this office because its description states that it is situated on the high point of "Mt. Cornelia", a sand hill 63 feet high that is shown on the charts and mentioned in the Atlantic Coast Pilot, Section D as a landmark. Plotted by R. M. Berry and checked by L. A. McGann. *Lau.*

The beacons along the Intracoastal Waterway and in Fort George River were plotted from the positions listed in the List of Landmarks submitted by Lieut. H. A. Paton and filed in the Nautical Chart Section as chart letter #325 (1935). Plotted by R. M. Berry and checked by L. A. McGann. *Lau.* These beacons were located by graphic control surveys T 6376a and T 6376b (Sept. to Oct., 1934).

The ranges shown on the compilation were transferred from the graphic control surveys and were determined by set-ups on the extensions of the ranges.

Comparison with Previous Topographic SurveysT 4068 (1924), 1:20,000

T 4068 is a shoreline survey covering the entire area of the compilation. Variations in position up to 80 - 100 meters occur. However, this area is low, flat and sandy and large variations are to be expected. Except for magnetic meridian, the compilation is adequate to supersede T 4068 in all points of detail throughout the area common to the two surveys.

T 411 (1853), 1:10,000

T 1232a (1871), 1:20,000

T 1232b (1871), 1:20,000

Except for hachures, the compilation is adequate to supersede each of the above old surveys throughout their common areas.

General

The control of the easterly flight of photographs covering this compilation is weak. Revision of the radial plot was necessary at the north end of Little Talbot Island in order to allow agreement with T 6376a which was controlled in that area by triangulation not available to the photo compiler. Changes up to 20 meters were made in the location of points intersected by the radial plot. Some of this trouble was due to one badly tilted photograph which, in a poorly controlled strip, easily can cause displacements of the order of these discrepancies.

In view of the weak control and the previously discussed lack of field inspection, the accuracy of this compilation should be stated as 2 to 10 meters for intersected points and 2 to 20 meters for other detail.

Ralph Moore Derry

June 11, 1936.

J. S. Jones

REVIEW OF AIR PHOTO COMPILATION NO. 5235

Chief of Party: S. B. GRENELL

Compiled by: G. F. Lenoir Jr.

Project: F.P. 4, Ga. Party # 18

Instructions dated: Nov. 10, 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) ✓
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) *No changes* ✓
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)
~~No supplemental surveys~~ ✓
T-6376 a + b
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* ✓
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. ✓
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) ✓
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44) ✓

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) ✓
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) ✓
Form 524 submitted by H.A. Paton, 1934
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) ✓
*Form 567 submitted by H.A. Paton, 1934
Chart Letter 375 (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) ✓
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) ✓
Approved
13. The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted. ✓
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) ✓
15. The drafting is satisfactory 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:

See preceding review

18. Examined and approved;

Dec. 13, 1904

S. B. Schell

Chief of Party

19. Remarks after review in office:

See preceding review

Reviewed in office by: *Ralph Moore Berry* 6/12/36 ✓ *Ray Jones*

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography
and Topography.