DESCRIPTIVE REPORT

State: Florida

LOCALITY

Florida East Coast

Vicinity of Nassau Sound

Nassau River to St. Johns River

1935

CHIEF OF PARTY

S. B. Grenell
Applied to drawing & Chart 577 - Dec. 20, 1935 - JF.

Applied to Chart 841 - March 24, 1936 - W.A. Bruder
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. 5131

State  
Florida

General locality  
Florida East Coast, Vicinity of Nassau Sound

Locality  
Nassau River

Nassau River to St. John's River

photographs: 9-21-33; 10-13-33

Scale  
1:20,000

Date of aerial comp.  
19

Vessel  
Aerial photo compilation party No. 10

Reviewed and recommended for approval:  
Chief of party  
Lieut. (j.g.) E. B. Grunell

Photographs plotted by:  
F. B. Hickman

Surveyed by

Inked by  
John Tassapoulos

Heights in feet above  
to ground to tops of trees

Contour, Approximate contour, Form line interval

feet

Instructions dated  
November 10, 1933

19...

Remarks:  Compilation of aerial photos Nos.:  
M-68. 36 to 50:

M-66. 153 to 166  
Blue print on a scale of 1:21,621 registered
--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 personnel 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. 5131
M-68 36 50
PHOTO No. 66 153 to PHOTO No. 166

BY
ROUGH RADIAL PLOT
B. B. Bowers

SCALE FACTOR (.925)
B. B. Bowers

SCALE FACTOR CHECKED
J. B. Granell

PROJECTION
A. M. Gerber

PROJECTION CHECKED
F. E. Hickman

CONTROL PLOTTED W. R. Taylor, Jr.

CONTROL CHECKED R. C. Schrimer

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED
F. E. Hickman Various Times

SMOOTH RADIAL LINE PLOT F. E. Hickman

RADIAL LINE PLOT CHECKED J. B. Granell

DETAIL INKED
John Tassamoulo

AREA DETAIL INKED 122.0 Square Statute Miles

LENGTH OF SHORE LINE OVER 200m. 53.2 Statute Miles

LENGTH OF SHORE LINE UNDER 200m. 84.3 Statute Miles

GENERAL LOCATION Florida East Coast Vicinity of Nassau Sound

LOCATION Nassau River to St. Johns River Nassau River

DATUM STATION Duval North Base, 1932 LATITUDE 30°-29'-22.100" (742.144) (Adj.)

DATUM N. A. 1927 LONGITUDE 81°-37'-32.274" (869.744)
REFERENCE:

In reviewing this sheet in the Washington office reference should be made to the General Report for 5-Lens Compilations forwarded with Compilation No. 5131.

General Information:

This compilation covers the general area westward from single lens 1:10,000 compilations of the Inland Route between Nassau River on the north to Lat. 30° 25' where a junction will be made later with the single lens 1:10,000 flights of the St. Johns River which will be compiled by Ensign T. M. Price.

The various topographical features have been clearly shown by conventional symbol and have been noted in the compilers report. No further comment is required by the Chief of Party.

Control:

The radial plot was controlled entirely by triangulation and traverse from the following sources:

First Order Coastal Arc by C. D. Meany, 1932
Coordinating scheme by C. M. Durgin, 1933
Traverse by the compilation party ITALIA to DUVAL NORTH BASE.

Comparison With Contemporary Surveys:

All junctions have been completed with adjoining compilations. Shoreline detail has been checked in the Nassau River, Cedar Creek and Dunn Creek with rodded detail from the aluminum control sheets executed by Lieut. H. A. Paton in 1931.

Landmarks and Coast Pilot Notes:

The above have been submitted for this area by H. A. Paton in 1931.

Bridge Data:

Draw, span and clearance have been shown on the overlay sheet for the highway and A. C. L. R.R. bridges crossing Cedar Creek on the south edge of the compilation.

Names on Overlay Sheet:

All names shown on the overlay sheet were taken from current issues of charts and Geological Survey Quadrangles of the area.

Respectfully submitted,

S. E. Grisell,
Chief of Party
REPORT OF COMPILATION:

Radial Line Plot:

This sheet was compiled by the standard radial line plot method. Some difficulty was experienced in holding plot at station CARLOS, flight M-66. Due to lack of control on flight M-66, part of the traverse run KINGSLAND to ITALIA to DUVAL NORTH BASE was used. The plot was rerun in the area surrounding, and controlled by BROOKS - SCANLON W.T. which was picked in error on several photographs.

Common points were found in error in several places which error was attributed to both obscurity of detail and misinterpretation of landmarks.

Plot was continued across the North Junction with no trouble there being no scale difference in the two sheets.

Adjustment of Photographs:

Excessive tilt was encountered throughout both flights, M-66 and M-66 necessitating minute adjustment between points. Additional points were supplied by interlacing definite radial positions. Points for the most part were, however, well selected and distributed.

INTERPRETATION:

Pictures were not very clear on flight M-66 and considerable difficulty was experienced in defining detail, much of this was caused by sun glare over water areas. Heavily wooded tracery on this sheet indicates the natural drainage of the land. These swampy areas are composed largely of gum and cypress trees. Telegraph lines are shown by strip of open area paralleling the main highway. Broken high water line and marsh lining indicates partially flooded areas - such conditions are noted along the eastern border of the sheet.

COMPARISONS WITH CONTEMPORARY SURVEYS:

Junctions with adjoining sheets made in this office are complete and satisfactory. The shoreline was checked against hydro sheets and found to be correct except shoreline of Cedar Creek and Dunn Creek at 30°-25'. Through check with rodded shoreline executed by party of H.A. Paton, error was found in plotted points in this area. After careful check of control picked on photographs, Station BROOKS - SCANLON W.T. was found picked consistently in error on practically all photographs. After correction was made and new points intersected shoreline traced checked perfectly with field topography. An additional check was noted in the agreement of docks, trestles etc of compilation to rodded topography of the field party.

NOTE: - Upper reaches Pumpkin Hill Creek compiled on this sheet for hydro party under H.A. Paton and supersedes tracing on single lens 1:10,000 scale sheet No. 5235.

Blue tracing on eastern border of sheet was incorporated as a junction medium through use of camera projector in order that these single lens sheets could be dispatched to the Washington D.C. office on schedule.

* In most places the broken N.W.E. has been made continuous. The broken marsh lines show partially flooded areas.
COMPARISONS WITH OTHER SURVEYS:

The area covered by this compilation has not been recently charted; therefore no checks could be made relative to the removal of detail. Checks were made with two Geological charts, and general features were found very similar.

ACCURACY AND COMPLETENESS:

Area 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 is located with a probable error of not more than 10 meters.

PHOTOGRAPHS:

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<th>No.</th>
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<td>10-13-33</td>
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John Tassapoulos
Draftsman

Approved:

S. E. Grenell

The statement of probable error given above is conservative for high relief. A better estimate would be 0.3 to 0.5 mm for well defined detail and 0.3 to 1.0 mm for other detail.

Frank E. Endline
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<th>Name on Chart</th>
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Approved by the Division of Geographic Names, Department of Interior. X

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

Under investigation. Q

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Names approved: 9/3/5 KTA
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<th>C.</th>
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* Geographic Names standard examined 6-28-40 REE
Chief of Party: S. B. Grenell
Project: F.P. 4, Ga., Party 18

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)

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. 25; and 66 d, e)

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. 29)

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."
9. 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 33, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

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)

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. C.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

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

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:

18. Examined and approved; April 3, 1935

Chief of Party

19. Remarks after review in office:

Reviewed in office by: Frank F. Eakin

Examined and approved:

C. F. Green

Chief, Section of Field Records

L. D. Roberts

Chief, Division of Charts

E. F. Borden

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.
Comparison with Graphic Control Surveys

(a) T 6234 (1934), 1:10,000 covers a short section of Back River in the northeast corner of this compilation.

No discrepancies.

(b) T 4899 (1934), 1:10,000 covers all of Nassau River and Pumpkin Hill Creek shown on this compilation.

No discrepancies.

All detail on T 6234 and T 4899 within the limits of this compilation is shown on T 5131 except temporary stations, temporary tide stations, and magnetic meridian.

Comparison with Contemporary Hydrographic Surveys

(a, b, and c) H 5757, H 5799 and H 5800 (1934, 1935) scale 1:10,000

There are no conflicts between the hydrography and T 5131.

Comparison with Previous Topographic Surveys

(a) T 1232a (1871), 1:20,000, covers eastern third of T 5131.

Numerous changes have occurred in the many small islands in Nassau River, Pumpkin Hill Creek, and Edwards Creek. The islands shown on this compilation are all that are now in existence.

The general outline of streams and high ground has remained practically the same.

T 5131 is adequate to supersede T 1232a for the area covered.

(b and c) T 1332b (1871), 1:20,000, and T 550 (1855), 1:10,000, cover a small area of Browns Creek.

The large marsh island at the mouth of Browns Creek is no longer in existence.

T 5131 is adequate to supersede T 1232b and T 550 for the area covered.

(d) T 551 (1855), 1:10,000, covers a small part of the compilation north of lat. 30° 25'.

The compilation is adequate to supersede T 551 for the area it covers.
Comparison with Charts

(a and b) Charts Nos. 577, 1243

Turner Pond (lat. 30° 24.9', long. 81° 38.2') does not extend north of lat. 30° 25' as shown on the charts.

Mill Pond on chart 577 at lat. 30° 26.5', long. 81° 39' is no longer in existence.

San Carlos Creek (lat. 30° 25', long. 81° 32.8') does not extend north to join Browns Creek as shown on the charts.

Additional corrections to the chart as a result of this survey have been discussed under Comparison with Previous Topographic Surveys.

No new landmarks or aids to navigation have been submitted within the limits of this compilation. All aids to navigation on the charts are shown on this compilation.

Remarks

Eleven triangulation stations were added to the compilation by

M. D. CROOK and checked by F. S. Lunde.

July 31, 1935. M. D. CROOK

Our thirty hours were spent reviewing the charts.
A great deal of radial plotting was necessary to clear up discrepancies with the topographic survey amounting to from 0.5 mm. to 2.0 mm. In a majority of the cases the compilations were found in error. Quite a bit of detail was added to the compilation from the photographs, among the additions were sound islands and sill decks.

See notes on next page.