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DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic Sheet No. 5131 Hudrographic

Florida

LOCALITY

Vicinity of Nassau Sound

Massau River to St. Johns Riv

Nassau River

1935

CHIEF OF PARTY

S. B. Grenell

Applied to drawing of Chart 577 - Dec. 20,1935 - JTG.
plied 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
StateFlorida
General locality Plorida Fast Coast Vicinity of Nassau Sound
Nassau River Locality Fassau River to St. Johns River
photographs: 9-21-33; 10-13-33 Scale 1:20,000 Date of *** comp.: , 19
Reviewed and recommended for approval:- Chief of party Lieut. (j.g.) S. B. Grenell Chotographs plotted by:- F. B. Hickman
Inked by John Tassapoulos
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
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 121,621 registered

-- NOTES OF COMPILATION-

One copy of this form must accompany each chart from begining to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnell will endeaver 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

ВУ	START	FINISH
ROUGH RADIAL FLOT BELLINGS		
SCALE FACTOR (1929 BUBBLES)	A state of the sta	Market Company of the
SCALE FACTOR CHECKED S. B. Grenell		
PROJECTION A. M. Gruber	11-8-34	11-8-34
PROJECTION CHECKED F. B. Hickman	11-8-34	11-8-34
CONTROL PLOTTED W. R. Taylor, Jr.	11-10-34	11-10-3/1
CONTROL CHECKED R. C. Schrimper	11-21-3/	11-21-3/1
TOFOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED SELLAND	Various Tim	ns
SMOOTH RADIAL LINE PLOT F B Hickman	11-22-34	11-27-34
RADIAL LINE PLOT CHECKED S. B. Grenel	-	11-27-34
DETAIL INCED John Tassapoulog onles	1-8-35	3-15-35
AREA DETAIL INKED 122.0	Square Statute	Milos
LENGTH OF SHORE LINE OVER 200m.	53.2 Statut	o Milos
LENGTH OF SHORE LINE UNDER 200m	84.3 Statut	o Milos
GENERAL LOCATION Florida Foot	Coast Vicinity	f Nassau Sound
LOCATION Nassau River to St. Je	ohms River Nass	au River
DATUM STATION Duval North Base, 1932	LATITUDE 30°-291	-21, 100" (71,2.1M) (Adj.)
DATUM N. A. 1927	LONGITUDE 81°-37	'-32.274" (860.7M)

INSPECTION REPORT for COMPILATION No. 5131 Scale: 1:20,000

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. 5114.

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. Meaney, 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 Creek Dunn Creek with rodded detail from the aluminum control sheets executed by Lieut. H. A. Paton in 1934.

Landmarks and Coast Pilot Notes:

The above have been submitted for this area by H. A. Paton in 1934.

Bridge Data: -

Draw, span and clearance have been shown on the overlay sheet for the highway and A. C. L. R.R. bridges crossing Godar Creek on the South edge of the compilation. (Clearance from Bridge Buk) Broward

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,

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-68, part of the traverse run KINGSLAND to ITALIA toDUVAL 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-68 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 of 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 EROOKS - 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 in the collection of the collection of the 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 H.W. L. has been made Continuous. The broken march lines show partially flooded areas.

O MPARISONS 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: -

No.	to	No.	Date	Time	Stage of Tide
M-66	15L	166	9 - 21 -3 3	9:30AM	High Tide
M-68	37	50	10-13-33	9:30AM	High Tide

John Jarry ouls John Tassapoufos Draftsman

Approved:

S. B. Grenell

The statement of probable ener given above is considered for high a better estimate would be 0.3 to 0.5 m.m. In will ditail. In well defined detail and 0.3 to 1.0 m.m. In vider detail. Frank 4. Endine

GEOGRAPHIC	NAMES	20/2
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Survey No. 7-5/3/	
Chart No. 1243, 577	
Diagram No	

Date.	1-11.35	
	apy	

- *, Approved by the Division of Geographic Names, Department of Interior.
- otan, Not Approved by the Division of Geographic Names, Department of Interior.
- R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	lame on Survey Name on Chart On 1243 On 577		New Names in local use <i>On P.M.ID</i> .	Names assigned by Field Quad Jack		Location <i>380 VIIIe. Fla</i>	
,	Starrett Creek	Some	Same'		Same		\$	
+	Samples Creek ?	"	,, ,	· · · · · ·			<u>s</u>	
	Henderson Londing	None	None	· <u> </u>	/ "		5	
	Burton Creek	Some	,, ,		<i>y</i> ,,		s	
	Nassou River	"	Same	<u>. </u>	/ "		S R P	
	Burton Island	None	None		/	<u>, , , , , , , , , , , , , , , , , , , </u>	\$	
•	Mink Creek ?	Same				<u> </u>	s	
	Wrights Landing	None	,		<u>"</u>		s	
	Deese Greek	Same			"		5	
	Deese Landing	None	//		r	. •	s	
	Lotton Point	Same			/		s	
	Lotton Greek				<u> </u>		5	
	Christopher Creek	<u>"</u>	game"				5	
	Back River	,,					F	
	Inconstantion Creek				<u>"</u>	ن	.s	
· .	Pearson Island	<u>"-</u>			<u> </u>		\$	
	Tisonia	None			"		5 R	
1	Seaton Creek	ار		<u></u> .			\$	
	Seaton Landing ?	"		,	. ' "	-	5	
١	Thomas Creek	Some			 	·	5 R P	
	Seaboard Air Line Ry	, ,	None		<u>"</u>			
	Atlantic Coast Line R.				<u> </u>			
	Broward	None	··· ;		"		J	

GEOGRAPHIC	NAMES	10/2
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Survey No. *T-5131*Chart No. *1243*, *577*

Diagram	No.	

Approved by the Division of Geographic Names, Department of Interior. *\foating Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Date. 7-11-35

Status	Name on Survey	7000 50	me on Chart	New Names in local use	Names assigned by Field	Location
		On 1243	0n577	On P.M.	In. Quad. Jo	acksonville
	Clapboard Creek	Some	Some v	V	Same '	M
	BrownsCreek	,,	Brown Cree	k- "	Brown's CI	eek 5
	Browns Island	п	Brown 1sland	1	Brown's Isl	and 5
	Pelotes Island	11	Same		Same	J
,	Terrapin Creek	None	Terrupin Bran	ch	- " "	J
,	Dunn Creek	Same	Dunny Cree	tr u	,, v	J
	Eastport	- ,,	Same		"	J Sarkar P
	Sweetwoter Creek	,,	,		- " ×	I J
	Dosin	11			"	J
1	Fitzpotrick Creek	"			None	M.
	Broward River		,, ,		Same .	J
	Trout River	- 11		-	/ ,, ·	J
	LemTurner Road	None	None	V	/ "	
	MXXXXXX (omit)	"	"	4	/ " /	J
· /4	Duval	11	,,		111	JR
	Jacksonville Municipal	Airport N	lone "		None	
	U.S. Highway No. 17 (Y	ulee Road	None "		Yulee Road	1
1	Drummend Point	Some	Some *	•	Some .	J
	Broward Point	"	" v	Not on 7-5131	" "	J
	Pumpkin Hill Creek	11	μ 🗸			F
• •	Edwards Creek	,,	,, ~	/	,, ,	5
. ?.	Broward Islands	11	Browardx Island	15	"	5 (M-136)
			us approved "			(M-136)

Survey No.	,	/str	evious	8. 100g	Local side	, of Mo.	Guide	WCHO.	J. J	
	6	Char.	Desirate of	J. Madi	or indirection	Or oco Mar	S. Cripe of	Me de la constant de	N.S. Light	
Name on Survey	/ A,	/ B,	/ C,	/ D	/ E	/ F	/ G	<u>/ H</u>	/ K	_
* Edwards Flats * Tiger Point * Buckhorn Bluff	577								<u> </u>	1
* Tiger Point	577									2
* Buckhorn Bluff	577									3
										4
										5
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REVIEW OF AIR PHOTO COMPILATION NO. 5/3/

S.B. Grenell Chief of Party:

compiled by: John Tassapoulos

Project: F.P. 4, Ga., Party # 18 Instructions dated: Nov. 10, 1433.

- 1. 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)
- 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. 65; and 66 d,e)

 Traverse Italia to Duval N. Base
- Blue-prints and maps from other sources which were transmitted \times by the field party contain sufficient control for their application to the charts. (Par. 28)
- 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.
- 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)
- High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

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." . MAGT

- 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)

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 by M.H.Poton, 1934

- 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)
- 13. The geographic datum of the compilation is N.A. 1927 and the reference station is correctly noted. Adjusted
- 14. V 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:
 - Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 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 G. Enkine

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION T 5131 Scale 1:20,000

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 station, 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) <u>T 1332b</u> (1871), 1:20,000, and <u>T 550</u> (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 A.C. Land.

July 31, 1935.

M. D. CROOK Trunk G. Essine

Over much hour were spent reviewing the shak. A great deal y radial plotting was receising to clear up discupancies with the happin bottool Surveys amounting to from 0.5 mm to 20 mm. But a majority of the cases the compelations was found in incoquite a bet of detail was added to the emplation from the photograph, among the adaption were several islands and see docks.

49E

See note on next page.