

6487

Graphic Control

U. S. COAST & GEODETIC SURVEY  
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APR 8 1935

Acc. No.

Form 504  
Ed. June, 1925

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Florida

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No.

X

LOCALITY

St. Johns River, Florida.

Mile Point to Little Marsh Island.

1934.

CHIEF OF PARTY

Robert A. Patton

U. S. GOVERNMENT PRINTING OFFICE: 1925

Graphic Control

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

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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. X

REGISTER NO. 6487a

State Florida

General locality St. Johns River

Locality Mile Point to Little Marsh Island

Scale 1:10,000\* Date of survey November, 1934

~~Vessel~~ Party No. 26

Chief of party Hubert A. Paton

Surveyed by J. M. LeRoy

Inked by C. T. Schwalb & J. M. LeRoy

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

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

Instructions dated December 5, 1933

Remarks:.....

\* *J.P. scale 1:10,000*

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET X  
ST. JOHNS RIVER, FLORIDA.  
MILE POINT TO LITTLE MARSH ISLAND  
PARTY No. 26 PROJECT H. T. 168

February 12, 1935.

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated December 5, 1933.

In the St. Johns River, it was not necessary to locate hydrographic signals because a thorough survey had been made of it by the U. S. Engineers in 1934. Only U. S. E. stations, beacons, and land marks were located in this area.

In Sisters Creek, signals were needed for hydrography. The shoreline north of Latitude  $30^{\circ}25'$  had been traced from photography, by a party under Lieut. (j.g.) S. B. Grenell. South of this parallel, it was believed at first, no shoreline would be received so it was located by the topographer in order to complete the hydrographic sheets. Later, it was learned, the photographs of this area would be compiled by Ensign, T. M. Price, sometime in April, 1935.

LIMITS:

This sheet extends from Sherman Point, (on the South side of the St. Johns River), to Fulton, and about one mile north and south of the river.

This includes a section of the St. Johns River and about one mile of Clapboard Creek and the lower part of Sisters Creek.

METHODS:

The signals on this sheet were located by three or more cuts taken from control stations. No traverses were run, even in the lower part of Sisters Creek where the entire shoreline was rodded in. The abundance of control stations here made it unnecessary.

CONTROL:

There are 35 control stations on this sheet. All of the main-scheme stations of the 1926 triangulation in the St. Johns River were recovered except Fulton 2 and Beacon 6 (new), although ten of the beacons that were located at that time have been removed.

Two new stations were established and located by triangulation, to replace the main-scheme stations. The existing control is sufficient for any work of general nature.

#### DATUM:

The datum used on this sheet is "North American 1927". The stations established by Lieut. C. M. Durgin in 1932 and 1933 had been computed on North American Datum, using the line "Horseshoe 1853, Mt. Cornelia, 1853" as a base. To correct his values, it was necessary to apply the following corrections.

Latitude	-	0.6 meters
Longitude	-	9.6 meters

The stations established by Lieut. W. H. Bainbridge in 1926 had also been computed on the North American Datum, using the line "Bluff-Water Tower E.O.P." in Jacksonville as a base. The correction factors for his values were as follows:

Latitude	-	3.0 meters
Longitude	-	4.4 meters

Both of these factors were obtained by comparison of the two values for several first-order stations in the vicinity which had been adjusted to the desired datum.

#### SHORELINE:

The shoreline on this sheet consists of dredged sand in the St. Johns River, and soft marsh in Sisters Creek, Clapboard Creek, and their tributary streams. The only exception is the south shore of the St. Johns River, from triangulation station St. Johns U. S. E. to triangulation station Fulton 3. Here there is a heavily wooded bluff, ranging from about 10' high at triangulation station St. Johns U. S. E. to about 1' at Shipyard Creek. The woods extend on west to triangulation station Fulton 3.

The lower part of Sisters Creek was rodged in to connect with the topographic shoreline on Sheet "V" which in turn connects with the photophaphic shoreline, but at Clapboard Creek only a short stretch of shoreline on either end of the bridge was located.



JUNCTION:

This sheet joins sheet V on the east and sheet Y on the west. The following stations are common to adjacent sheets.

Sheets X & V

Triangulation Station	Perry U. S. E.	1933
"	T. P. 6 U. S. E.	1933
"	Shell U. S. E.	1933
"	Point U. S. E.	1932
"	Cliff U. S. E.	
"	Round Pond	1853
"	St. Johns River Ward Bank R.R. Light	
"	Mile Point U. S. E.	1926
"	R-2 B-2	1926
"	Sherman	1908
"	Cedar	1926
"	Mayport Pogie Plant tall Stack	1933.

Sheets X & Y

Triangulation Station Beacon No. 6 New 2 1934

The shoreline in Sisters Creek, as rodded in on Sheets X & V, joined with ~~no~~ appreciable error.

MAGNETIC MERIDIAN:

The magnetic meridian, as determined by the declinoire, is  $0^{\circ}16'$  east of true meridian. The index correction for this instrument, determined at the Brunswick Magnetic Station in February 1934, was  $0^{\circ}10'$  East. The corrected declination is  $0^{\circ}26'$ .

RANGES:

There are 7 ranges on this sheet as follows:

Ranges	True	Azimuth
	$0^{\circ}$	$0'$
- Sherman Range	221	35
Mile Point Lower Range	245	20
Mile Point Upper Range	129	21
Training Wall Range	306	39
Short Cut Range	91	00
White Shells Cut Range	56	39
- Little Marsh Island Range	341	17

*see also page 5, this report, last paragraph. ckg*

PERMANENT STATIONS:

The following permanently marked stations were described on Form No. 524:

Stations

Hut  
U. S. E. Mile Point B. M. #1  
U. S. E. White Shells B. M. #1  
Ridge  
U. S. E. Clapboard Creek B. M. #1  
Lybeck  
Gob  
Tel  
Row  
Wat  
Sherman Range Front Beacon  
Sherman Range Rear Beacon  
Mile Point Upper Range Front Beacon  
Pablo Creek Beacon #1  
St. Johns Bluff Beacon #1  
Fulton Beacon  
Little Marsh Island Beacon #4  
House on Bridge  
Little Marsh Island Channel Rear Range Beacon

NEW NAMES:

The name "Hannah Mills Creek" is suggested for the Creek that used to enter the St. Johns River about midway between Sisters Creek and Clapboard Creek. It has been shut off at the mouth by a road fill. 25

The authorities for this name are the U. S. Geologic Survey of this area and the official Duval County Map. 26

LANDMARKS:

A list of landmarks and non-floating aids to navigation are attached.

*where*

COMPARISON WITH OLD SURVEYS:

The new work checked the old surveys very well though there has been quite a bit of change along the St. Johns River, due to dredging operations.

CHANGES IN NAMES OF RANGES:

Since the sheet was inked, changes have been made in the names of several of the ranges, as follows:

"Sherman Rangé" is now called "Sherman Cut Range".

"Little Marsh Island Channel Range" is now called "Fulton Range".

Respectfully submitted,

Approved and Forwarded,

*Hubert A. Paton*  
Hubert A. Paton,  
Lieut., C. & G. S.,  
Chief of Party.

*JM LeRoy*  
J. M. LeRoy,  
Surveyor, C. & G. S.

REVIEW OF GRAPHIC CONTROL SURVEY T-5671, SCALE 1/10,000

Date of Review

Sept 10, 1936.

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5671, , with particular attention to the following details:

- (a) Projection has been checked in the field. ✓
- (b) Accuracy of location of plane table control points. ✓
- (c) Discrepancies between detail on this survey and the air photo compilations listed above. *none*
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. *none*

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T- , , for a more complete discussion of any errors or discrepancies found. *none*

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section. *none*

Notes and corrections resulting from the review are shown on this survey in green. *none*

Leonard C. McGinnis  
Sept. 10, 1936.  
B.G. Jones

Applied to drawing of Chart 577 - May 1937 - JTW



6487 b

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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton, Director	
State: Florida	
DESCRIPTIVE REPORT	
Topographic } Hydrographic }	Sheet No. Y
LOCALITY	
St. Johns River	
(Le Baron Island to New Berlin)	
1934.	
CHIEF OF PARTY	
Hubert A. Patton.	

U. S. GOVERNMENT PRINTING OFFICE: 1923

Graphic Control

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES	REG. NO.
JUL 21 1936	
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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. .... Y .....

REGISTER NO. **6487 b**

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

General locality..... St. Johns River .....

Locality..... Le Baron Island to New Berlin .....

Scale..... 1:10,000 ..... Date of survey..... December ....., 1935<sup>4</sup>

Vessel..... Party No. 26 .....

Chief of party..... Hubert A. Paton .....

Surveyed by..... J. M. LeRoy .....

Inked by..... C. T. Schwalb & J. M. LeRoy .....

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

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

Instructions dated..... December 5 ....., 1933.

Remarks:.....

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET Y  
ST. JOHNS RIVER, FLORIDA.  
LE BARON ISLAND TO NEW BERLIN  
PARTY NO. 26 PROJECT H. T. 168

February 20, 1935.

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated December 5, 1933.

In the St. Johns River, it was not necessary to locate hydrographic signals, as a thorough survey had been made of it by the U. S. Engineers in 1934. Only U. S. E. stations and beacons were located in this area.

LIMITS:

This sheet extends from the mouth of Clapboard Creek west to a point  $\frac{1}{2}$  mile west of Dame Point, and from Browns Island to the lower part of Mill Cove; taking in a section of the St. Johns River and Back River, all of Mill Cove, and the mouths of San Carlos and Browns Creeks.

METHODS:

The signals were all located by the intersection of three or more cuts taken from triangulation stations. No traverses were needed. Some difficulty was encountered in recovering station Palmetto-1855, due to the inadequate description. This was overcome by occupying two control stations (Creek 2 U.S.E. and Jack 2 U.S.E.) and at each station, setting a small signal in the direction of Station Palmetto as indicated by its position on the sheet. It was then a simple matter to proceed to the intersection of the two ranges thus established, and to locate the station.

CONTROL:

There are 15 control stations which were recovered on this sheet. All of the main-scheme stations of the 1926 triangulation in the St. Johns were recovered except "Gator 1926", though all of the beacons and several of the intersection stations have been lost. At "Gator", the mark was found out of place. A new station, Gator 2, was established in approximately the same site

DATUM:

The datum used on this sheet is North American 1927. The stations established by Lieut. W. H. Bainbridge in 1926 had been computed on the North American Datum, using the line "Bluff-Water Tower E.O.P." in Jacksonville, as a base. To correct his values, it was necessary to apply the following corrections.

Latitude	- 3.7 meters.
Longitude	- 6.5 meters.

The correction of Palmetto 1855 was:

Latitude	- 2.9 meters.
Longitude	- 9.2 meters.

These corrections were obtained by comparison of the two values for several first-order stations, in the vicinity, which had been adjusted to the desired datum.

SHORELINE:

The shoreline along the St. Johns River consists of dredged sand, except for a short distance around New Berlin, where there is a wooded bluff.

In San Carlos Creek and Browns Creek, there is a soft marsh except for a short distance at the mouth of each stream, where dredged sand is encountered. Back River has soft marsh on its south and west shore, and on Radcliff Island, while the north shore, with the exception of Radcliff Island, is dredged sand. The small Islands in Mill Cove are all soft marsh, while the cove itself is edged by a narrow strip of marsh. At Gilmore, there is high ground and woods, down to high water line.

Very little shoreline was rodged in along the St. Johns and Back Rivers, as the U. S. Engineers had recently made a thorough survey of this section. A small amount was rodged in at the mouth of Browns and San Carlos Creeks.

The Topographic shoreline at Browns Creek checks very well with the photo-topographic shoreline furnished by Lieut. (j.g.) S. B. Grenell's compilation party.

It is understood that the shoreline south of Latitude 30°25' will be traced by Ensign, T. M. Price's Party sometime in April, 1935.

# JUNCTION:

This sheet joins Sheet X on the East and Sheet Z on the West. Station Beacon 6 New 2-1934 is common to Sheets X and Y. There are no stations or signals common to Sheets Y and Z.

# MAGNETIC MERIDIAN:

The magnetic meridian, as determined by the declinatoire, is 1°00' East of the true meridian. The index correction for this instrument, determined at the Brunswick Magnetic Station in February, 1934, was 0°10' East. The corrected declination is 1°10' East.

# RANGES:

There are four ranges on this sheet. They are as follows:

Name	True °	Azimuth 00'
Clapboard Creek Range	300	22
New Berlin Cut Range	27	27
Quarantine Island Lower Range	198	13
Quarantine Island Upper Range	146	12

# PERMANENT STATIONS:

The following permanently marked stations were described on Form #524:

## Name of Stations

Bay	Ate (Clapboard Cr. Fr. R. Beacon #8)
U.S.E. B.M. #1 at Beacon #10	Ran ( " " R. R. " )
Reed	Ten (New Berlin Cut Front Range Beacon #10).
Mill	
U.S.E. New Berlin B.M. "A"	Dame Point Beacon #12
U.S.E. Dame Point B.M. #3	" " " #14
Marion 2 U.S.E.	" " " #16
Con (Vicks Island Beacon #3)	" " " #18
Pro ( " " " #5)	Quarantine Island Lower Front
Bus ( " " " #5A)	Range.

NEW NAMES:

The name "Back River" is suggested for the Channel which connects Mill Cove, at Reed Island, with the St. Johns River at Fulton. It runs south of and borders Long Island, Le Barons Island, and Vicks Island, and west of Alligator Island and Radcliff Island. ✓

This name is in use by inhabitants of Fulton and Dame Point and by members of U. S. Engineers field parties. ✓

LANDMARKS:

A list of non-floating Aids to Navigation are attached. There are no objects sufficiently prominent to be listed as landmarks.

COMPARISON WITH OLD SURVEY:

The work checks very well with old surveys of fairly recent date. However, there has been a great deal of change in the St. Johns River, due to dredging of the channel.

CHANGES IN NAMES OF RANGES:

Since the sheet was inked, changes have been made in the names of several of the ranges, namely:

"Clapboard Creek Range" is now called "Browns Creek Cut Range".  
"New Berlin Cut Range" " " " "St. Charles Creek Cut Range". ✓

Respectfully submitted,

Approved and forwarded,

*Hubert A. Paton*  
Hubert A. Paton,  
Lieut., C. & G. S.,  
Chief of Party.

*JM LeRoy*  
J. M. LeRoy,  
Surveyor, C. & G. S.



REVIEW OF GRAPHIC CONTROL SURVEY T-5671, SCALE 1/10,000Date of Review *Sept 10, 1936.*

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5671, T-5670, with particular attention to the following details:

- (a) Projection has been checked in the Field. ✓
- (b) Accuracy of location of plane table control points. ✓
- (c) Discrepancies between detail on this survey and the air photo compilations listed above. *none* ✓
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. *none* ✓

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5670, , , for a more complete discussion of any errors or discrepancies found. *none* ✓

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section. *none* ✓

Notes and corrections resulting from the review are shown on this survey in green. *none* ✓

*Lemard A. Van Gann*  
*Sept. 10, 1936.*  
*B.G. Jones*

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOGRAPH~~

~~No. 11~~

No. T 6487a & b

received July 21, 1936  
registered July 29, 1936  
verified  
reviewed  
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	C.K. Green
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7/30/36