

5688

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~~ } Sheet No. 4
Hydrographic }

State Georgia

LOCALITY

Little Satilla River (upper part)

(Upper Part)

1934

CHIEF OF PARTY

Hubert A. Paton

5688

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 4

REGISTER NO. 5688

State Georgia

General locality Little Satilla River

Locality (Upper part)

Scale 1:10,000 Date of survey Apr. 4, 1934-Jan. 2, 1935

Vessel Party No. 26

Chief of Party Hubert A. Paton

Surveyed by George W. Lovesee and A. F. Jankowski

Protracted by T. M. Williams

Soundings penciled by T.M.W.

Soundings in fathoms-feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by _____

Inked by R.W. Cochran

Verified by R.W.S.

Instructions dated Nov. 17 and Dec. 5, 19 33

Remarks: _____

U.D.S.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET 4
LITTLE SATILLA RIVER (upper part)
PARTY NO. 26 PROJECT H.T. 168

January 18, 1935.

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated November 17 and December 5, 1933.

LIMITS:

This sheet is a survey of the ^{illa}Satilla River from Longitude 81° 33' to the limits of navigation of all its branches. There is included the survey of the upper portion of Maiden Creek and the south end of Fancy Bluff Creek.

The limit set by Director's Letter, dated May 9, 1934, fell in the vicinity of the bridge, - Longitude 81° 36.8'. The work had been carried about one-half of a mile west of this limit prior to that date.

After the shoreline was received it was found that the streams could be surveyed to the limits of navigation with little additional expense.

JUNCTIONS:

This sheet joins sheets 2 and 3 on the east.

DATUM:

The datum used on the smooth sheet is North American 1927. The triangulation stations had been computed on the North American Datum, using as a base the line "Col, 1898-Brunswick Southeast Base, 1917". By comparing the values for the adjusted first-order triangulation stations in the vicinity, the following corrections were obtained which would shift the positions to the desired datum:

Latitude - 1 meter
Longitude + 2 meters

All signals and shoreline had been corrected in the same way, so they could be transferred without difficulty.

The reference station has not been adjusted, so the seconds and meters were left in pencil in order that the final value can be inked when available.

SIGNALS:

The topographic signals were located on Whatman paper, see sheet G. T-4897

SHORELINE:

Practically all the shoreline was transferred from a phototopographic sheet, compiled by Lieut. (j.g.) S. B. Grenell, on a scale of 1:20,000, which was enlarged to 1:10,000 scale. A few short portions of the shore had been located on sheet G which checked very well in all but one case. In the vicinity of station Forest, 1933, there is a wooden bulkhead which probably did not show plainly on the photographs.

See Descriptive Report for sheet G for a description of the shoreline within its limits.

SURVEY METHODS:

All soundings were taken with a hand-lead-line marked in fathoms and feet. The weight of the lead was eight pounds.

The vessels used were a skiff drawing about $1\frac{1}{2}$ feet and a launch drawing 2 feet.

For a general discussion of the method see Descriptive Report of sheet 1.

Positions were located with three-point fix in the Little Satilla River as far upstream as there were topographic signals. Above this point the positions were located on the boat sheet by reference to the shoreline, and later transferred to the smooth sheet. Maiden Creek and the unnamed stream on the opposite side of the Little Satilla River were surveyed by the latter method.

CHANNELS:

The deeper parts of the channels are found near the "ebb-tide-bends". In the Little Satilla, the controlling depth is 10 feet which occurs at Signal War. This depth can be carried two miles above the bridge.

For the portion of Maiden Creek which is shown on this sheet, ten feet can be carried up to Latitude $31^{\circ} 04.3'$ Longitude $81^{\circ} 34'$, where a depth of 9 feet is found. This latter depth can then be carried 1.3 miles farther upstream where it branches into a tortuous basin.

The unnamed stream on the opposite side of the Little Satilla River from Maiden Creek has a least depth, on this sheet of 10 feet to Latitude $31^{\circ} 05.7'$ Longitude $81^{\circ} 33.1'$, and 4 feet, 500 meters farther upstream.

The least depth in Fancy Bluff Creek is 3 feet which occurs 150 meters from the southern entrance.

Near Station Over there is an island in the Little Satilla River. The channel on the south side has a least depth of 3 feet, near the west end of the island.

About $\frac{3}{4}$ of a mile above the bridge Buck Creek empties into the Little Satilla from the northwest. This stream has a least depth of $\frac{1}{2}$ foot about 100 meters above its mouth.

The only commercial use for these streams is the transportation of lumber in the form of log rafts. These rafts are assembled in the upper reaches of the river. The channels in this area are obstructed by water soaked logs which are a menace to navigation and the rafts completely block the channels.

DOCKS:

There is but one wharf on this sheet: at Signal War. This is well built and in good repair but is too narrow for anything larger than a small launch to tie up at the outer end. A depth of eight feet at mean low water will be found there.

COMPARISON WITH PREVIOUS SURVEYS:

A short portion of the Little Satilla River and all of Fancy Bluff Creek is shown on Chart No. 447. In the former the depths are about the same as found on this survey. In the latter there has been some shoaling, there being about three feet where four feet was shown before.

For the rest of the area there have been no previous hydrographic surveys made by this bureau.

NAMES:

The name "Spring Bluff" is shown on Geological Survey Maps and is in common use for the settlement about one mile southwest of the bridge.

Buck Creek is the name given to the stream emptying into the Little Satilla about $\frac{3}{4}$ mile above the bridge, by this survey party. It drains from Buck Swamp, a term used on Geological Survey Maps. It is recommended the above names be adopted for use on the charts.

AIDS TO NAVIGATION:

There are no Aids to Navigation located on this sheet.

STATISTICS:

Total number of Positions	1115
Total Number of soundings	6943
Statute miles of sounding lines	131.3

MISCELLANEOUS:

For list of Landmarks see Report of Sheet G. ^{F4897.} It is believed that no further surveys are needed in this area. ✓

The intracoastal water way consists of two routes in this vicinity: one through Jekyll Creek and the other through Jointer Creek. This second route, at present, goes dry at mean low water. A third route about 10 miles longer, through Fancy Bluff Creek and the Little Satilla River, has a least depth of three feet at mean low water. ✓

Respectfully submitted,

George W. Lovesee
George W. Lovesee,
Lieut. (j.g.) U.S.C.&G.S.

1/22/11

TO ACCOMPANY SHEET 4.

This sheet and accompanying records have been inspected and
are approved.

Hubert A. Paton
Hubert A. Paton,
Chief of Party.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ..5688

The following statistics will be submitted with the
cartographer's report on the sheet:

Number of positions on sheet	..1115.
Number of positions checked	..110.
Number of positions revised0.
Number of soundings recorded	..6943
Number of soundings revised6.
Number of signals erroneously plotted or transferred0.
Number of fractions added	..79

Date: *June 26, 1935*

Verification by *R. W. Cochran*

Review by

[Signature]

Time: *69 hours*

Time: *8 hr.*

Date. March 19, 1935 **GEOGRAPHIC NAMES**
GEORGIA

Survey No. 5688

Chart No. 1242

Diagram No. 1242-2

Approved by the Division of Geographic Names, Department of Interior. ✕

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

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Little Satilla River</u> ✓	Same			✓
	<u>Buck Creek</u> ✓				✓
	<u>Fancy Bluff Creek</u> ✓	Same			✓
	<u>Spring Bluff</u>				
	<u>Maiden Creek</u> ✓	Same			✓
		APPROVED NAMES UNDERLINED IN RED H. L. Fenn			

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 4, 1935

Division of Hydrography and Topography:

✓ Division of Charts: Attention Mr. E. P. Ellis

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5688

Locality Little Satilla River (Upper Part), Georgia

Chief of Party: H. A. Paton in 1934, 1935
Plane of reference is mean low water reading
5.0 ft. on tide staff at Forest
12.1 ft. below B.M. 1

2.3 ft. on tide staff at Spring Bluff
19.5 ft. below B. M. 1

Height of mean high water above plane of reference is 7.3 feet
at Forest; 7.5 feet at Spring Bluff.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

6/26/35

Verifiers report on sheet H-5688

- 1.) The records conform to the requirements of the General Instructions.
- 2.) The usual depth curves can not be completely drawn and in some places they fall about on top of each other.
- 3.) The field plotting was completed to the extent prescribed in the Hydrographic Manual.
- 4.) The office draftsman did not have to do over any part of drafting done by the field party.
- 5.) The junction with contemporary adjacent sheet H-5687 is satisfactory. Adjacent sheet H-5686 has not as yet been verified.
- 6.) The shore line of the Little Satilla River had to be taken out in places because some of the positions fell outside it. The air photo.

map for this section
could not be used as a
check because as yet it has
not been reviewed.

Respectfully submitted,
R. W. Cochran.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5688 (1934-35) - FIELD NO. 4

Little Satilla River, Upper Part, Georgia
Surveyed in 1934-35

Instructions dated November 17 and December 5, 1933 (H. A. Paton)

Hand Lead Soundings

3 Point Fixes on Shore Signals
and positions spotted on boat
sheet in relation to shoreline

Chief of Party - H. A. Paton.
Surveyed by - G. W. Lovesee and A. F. Jankowski.
Protracted by - T. M. Williams.
Soundings penciled by - T. M. Williams.
Verified and Inked by - R. W. Cochran.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The "Descriptive Report" is clear and comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

This survey complies with the instructions for the project. The relative unimportance of the upper reaches of Little Satilla River justifies the use of shoreline control for the hydrography.

3. Sounding Line Crossings.

No crosslines were run. The soundings on adjacent parallel lines are in good agreement.

4. Depth Curves.

The usual depth curves can be satisfactorily drawn including portions of the low water curve.

5. Junctions with Contemporary Surveys.

The junction on the east with H-5687 (1934-35) is satisfactory.

The junction with H-5686 (1934-35) will be considered in the review of that survey.

6. Comparison with Prior Surveys.

There are no prior hydrographic surveys by this Bureau within the area covered by this survey.

7. Comparison with Chart 447.

a. Hydrography.

The soundings on the chart in Fancy Bluff Creek and a short section of Little Satilla River originate with U. S. Army Engineers Bp's. 14483 (1912), 15490 (1914), and 16434 (1915). The charted soundings in the Satilla River originate with Bp. #14483 (1912). All are in excellent agreement with the present survey. The 4 foot soundings (charted) in Fancy Bluff Cut, which connects Fancy Bluff Creek with Little Satilla River, originate with Bp. #16434 (1915). The present survey shows three feet in this waterway. For future charting within the common area the new survey should supersede the information on the chart.

b. Controlling Depths.

The controlling depth of Fancy Bluff Creek as charted is $2\frac{1}{2}$ feet as of May, 1934. The present survey shows 3 feet as the controlling depth in Fancy Bluff Cut.

8. Field Plotting.

The field plotting is satisfactory.

9. Additional Field Work Recommended.

This water way is very well sounded and no additional field work is required.

10. Superseding Old Surveys.

There are no old surveys by this Bureau to be superseded.

11. Reviewed by - Leo. S. Straw, July 5, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, *C. K. Green*
Chief, Section of Field Records.

F. L. Borden
Chief, Section of Field Work.

L. O. Tolbert
Chief, Division of Charts.

G. Wade
Chief, Division of H. & T.

Applied to Chart 447
Mar. 13, 1936 G.H.S.

25 Jan 6, 1936

Applied to Chart 448, Aug 1937

Applied to Chart 1242, Mar. 16, 1939

W.S.
J.S.

G.H.S.