

6290

U. S. COAST & GEODETIC SURVEY  
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508

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
....., Director

State: Florida

**DESCRIPTIVE REPORT**

~~Topographic~~ } Sheet No. 31  
Hydrographic }

LOCALITY

St. Johns River  
Turkey Island to Little Lake George  
~~Wolake~~

1937

CHIEF OF PARTY

L. D. Graham

U. S. GOVERNMENT PRINTING OFFICE: 1928

68

6290

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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. 31

REGISTER NO. H-6290

State Florida

General locality ~~Wekiva~~ St. Johns River

Locality Turkey Island to Little Lake George

Scale 1:5000 Date of survey March, 19 37

Vessel Launch MIKAWA

Chief of Party L. D. Graham

Surveyed by G. W. Lovesee

Protracted by G. W. Lovesee

Soundings penciled by E. F. Hicks

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by G. F. Jordan

Verified by G. F. Jordan

Instructions dated \_\_\_\_\_, November 9, 1936

Remarks: \_\_\_\_\_

\_\_\_\_\_

## DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet 31. H-6290

INSTRUCTIONS - November 9, 1936

Project HT-212

### LIMITS OF SHEET

This sheet starts on the north, at Turkey Island, Lat.  $29^{\circ} 30.3'$ , Long.  $81^{\circ} 41'$  and includes all of the St. Johns River and most of Little Lake George to Lat.  $29^{\circ} 26.4'$ . All creeks emptying into the river were filled with hyacinth and impossible to survey, with the exception of the Oklawaha River. The shoreline of this river was not available at the time of the survey, and development was therefor postponed until a later date. See par. 10  
review.

### SURVEY METHODS

All work on this sheet was accomplished with skiff and two out-board motors. A standard line and lead weighing about 8 pounds was used. Soundings were taken to fathoms and feet and reduced to feet. Sextant fixes were taken to signals on shore located by triangulation and topography.

The shoreline was not available at the time of the survey and was being compiled by the airphoto party of Lieutenant H. A. Paton at Palatka, Florida.

Standard Coast Survey methods were used throughout.

### DISCREPANCIES

No discrepancies were noted when surveying this sheet. Cross lines checked to the nearest foot. Numerous shoals were developed with split lines and by drifting over the shoals to obtain the shoalest soundings.

Considerable grass was encountered in Little Lake George, especially near the shore and, where the sounding lines do not approach the shoreline, it was prevented by heavy grass, which fouled the propeller. Also considerable hyacinth is found along the shoreline and in some instances extends 200 to 300 yards offshore and grows so dense it is practically impossible to force a passage by boat.

### DANGERS

Numerous shoals are found in the St. Johns River but they are mostly marked by lighted beacons. There is a shoal in mid channel at latitude  $29^{\circ} 29.8'$ , Long.  $81^{\circ} 40.7'$  with a shoalest depth of ~~two~~<sup>three</sup> feet. This shoal is not marked and has previously not been mentioned in the Coast Pilot.

25

There is another unmarked shoal in the middle of the river at Lat. 29° 29.37', Long. 81° 41.09' with a least depth of 4 feet. At the time of the survey the shoal was marked by a pole and flag at topo signal POLE. This shoal extends in a southeasterly direction in the middle of the river for about 600 yards but gradually gets deeper.

See "Remarks" below.

All other shoals are marked by beacons and explained in the Coast Pilot.

25

Care should be exercised when navigating close to the shore because of old piling and sunken logs.

CHANNELS

There is a dredged channel corssing the southern part of Little Lake George. The channel is marked by a range and has a controlling depth of 9 feet, which is the controlling depth for this sheet.

ANCHORAGES

Good anchorages can be found most anywhere in the river.

COMPARISON WITH PREVIOUS SURVEYS

The survey checks well with chart No. 508, Last print No. 36-11/12.

GEOGRAPHIC NAMES

No new geographic names are suggested.

LANDMARKS FOR CHARTS AND COAST PILOT NOTES

See separate reports for this area.

SHORELINE

No shoreline was available at the time of the survey as it was being compiled by the airphoto party of Lieutenant H. A. Paton. There are no large docks on this sheet, but the numerous small docks at Welaka were located by the topographer. Ten feet can be carried to most of these docks.

Shoreline added to sheet by Lt. Paton.

REMARKS

The shoal at Lat. 29° 29.37'; Long. 81° 41.09' mentioned under Dangers, has been marked with a red and black obstruction beacon, by the Lighthouse Service after the survey was completed. This beacon was located on on April 4, 1938 and is shown in pencil on the smooth sheet.

Inked.

25

Approved & forwarded:

*F. L. Gallen*  
F. L. Gallen  
H. & G. Engineer  
Chief of Party

Submitted by,

*George W. Lovesee*  
George W. Lovesee  
Jr. H. & G. Engineer

STATISTICS FOR SHEET 31 H-6290

| Date     | Day Letter | Statute Miles | Soundings | Positions |
|----------|------------|---------------|-----------|-----------|
| March 9  | A          | 8.0           | 595       | 108       |
| 10       | B          | 15.4          | 1039      | 205       |
| 15       | C          | 6.0           | 417       | 197       |
| 16       | D          | 14.0          | 1071      | 207       |
| 17       | E          | 16.4          | 1088      | 205       |
| 18       | F          | 16.4          | 1116      | 204       |
| 19       | G          | 13.2          | 954       | 160       |
| 22       | H          | 17.2          | 1069      | 206       |
| 23       | J          | 11.7          | 640       | 117       |
| 25       | K          | 3.1           | 239       | 53        |
| April 13 | L          | <u>0.5</u>    | <u>47</u> | <u>13</u> |
|          |            | 121.9         | 8275      | 1615      |

Square statute miles = 2.5

H-6290  
Smooth sheet No. 31 was plotted under the immediate supervision  
of the Chief of Party. The sheet and accompanying records have been  
inspected and are approved. ✓

*F. L. Gallen*

F. L. Gallen  
H. & G. Engr.  
Chief of Party

# Verifiers' Report on H-6290 (1937)

1. This survey makes a satisfactory junction with H-6131 (1935, 1937) on the north, and with H-6295 (1937) on the south.
2. Control is obtained from T-6394 (1935, 1937), C.S. <sup>130</sup> 131, and C.S. 132.
3. Shoreline already inked was transferred from air photo in the field by projection. Detail comparison was made with T-5151 and T-5152. A few changes in shoreline was made and detail transferred to this survey.
4. The sounding records conform to general instructions.
5. The field plotting was well executed, but it is to be noted that the location of control stations was not marked with a black ink dot. The depth curves are complete.
6. Remarks.
  - (a) All sounding line crossings are in excellent conformity.
  - (b) It is suggested that all signals be described in ink on the boat sheet at least. Some signals so situated have been found to be piles on comparison with the T-sheets.
  - (c) Snags Lat.  $29^{\circ}29.4'$  / Long.  $81^{\circ}41'$  — the easterly snag was on this sheet, compared with boat sheet, and T-6394. However, the verifier plotted the westerly snag from location given in Sounding Records Vol. 1, Pg 11, on line.
  - (d) The following features are now omitted from T-Sheets
    - T-5151
      - Piling -  $28.3/41.1$  — from Boat Sheet
      - Piling -  $28.25/40.7$  — from Boat Sheet and Records.
      - Piling -  $27.9/41.1$
    - T-5152
      - Snags — see (c)
      - Beacons -  $29.3/41.1$  —  $29.7/40.7$  —  $30.2/40.75$  — from Vol. 6, Pg 25
      - Pile and Fool Area -  $29.25/40.7$

Nov. 14, 1938

Respectfully Submitted  
George F. Jordan

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 16, 1938

Division of Hydrography and Topography:

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

plane of reference  
~~Tide Reducers are~~ approved in  
6 volumes of sounding records for

HYDROGRAPHIC SHEET 6290

Locality Turkey Island to Little Lake George, St. Johns River, Florida.

Chief of Party: L. D. Graham in 1937  
Plane of reference is mean low water reading  
3.1 ft. on tide staff at Welaka  
23.0 ft. below B.M. 1

Height of mean high water above plane of reference is 0.5 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.



GEOGRAPHIC NAMES  
Survey No. **H6290**

| Name on Survey              | <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No. <b>506</b></div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div> |   |   |   |   |   |   |   |   |  |    |
|-----------------------------|---|---|---|---|---|---|---|---|---|--|----|
|                             | A   | B | C | D | E | F | G | H | K |  |    |
| <del>Buzzard Islands</del>  |   |   |   |   |   |   |   |   |   |  | 1  |
| X <u>Turkey Island</u>      | ✓   |   |   |   |   |   |   |   |   |  | 2  |
| X <u>Welaka Springs</u>     | ✓   |   |   |   |   |   |   |   |   |  | 3  |
| X <u>Stephens Point</u>     | GNS   |   |   |   |   |   |   |   |   |  | 4  |
| X <u>Saint Johns River</u>  | ✓   |   |   |   |   |   |   |   |   |  | 5  |
| X <u>Welaka</u>             | ✓   |   |   |   |   |   |   |   |   |  | 6  |
| X <u>Oklawaha River</u>     | ✓   |   |   |   |   |   |   |   |   |  | 7  |
| X <u>Bear River Creek</u>   | GNS   |   |   |   |   |   |   |   |   |  | 8  |
| X <u>Little Lake George</u> | ✓   |   |   |   |   |   |   |   |   |  | 9  |
| X <u>Beecher Point</u>      | ✓   |   |   |   |   |   |   |   |   |  | 10 |
| X <u>Mud Creek Cove</u>     | GNS   |   |   |   |   |   |   |   |   |  | 11 |
| X <u>Orange Point</u>       | GNS   |   |   |   |   |   |   |   |   |  | 12 |
|                             |   |   |   |   |   |   |   |   |   |  | 13 |
|                             |   |   |   |   |   |   |   |   |   |  | 14 |
|                             |   |   |   |   |   |   |   |   |   |  | 15 |
|                             |   |   |   |   |   |   |   |   |   |  | 16 |
|                             |   |   |   |   |   |   |   |   |   |  | 17 |
|                             |   |   |   |   |   |   |   |   |   |  | 18 |
|                             |   |   |   |   |   |   |   |   |   |  | 19 |
|                             |   |   |   |   |   |   |   |   |   |  | 20 |
|                             |   |   |   |   |   |   |   |   |   |  | 21 |
|                             |   |   |   |   |   |   |   |   |   |  | 22 |
|                             |   |   |   |   |   |   |   |   |   |  | 23 |
|                             |   |   |   |   |   |   |   |   |   |  | 24 |
|                             |   |   |   |   |   |   |   |   |   |  | 25 |
|                             |   |   |   |   |   |   |   |   |   |  | 26 |
|                             |   |   |   |   |   |   |   |   |   |  | 27 |

Checked and found in red approved  
by GLE on 6/8/38

Remarks

Decisions

|    | Remarks | Decisions     |
|----|---------|---------------|
| 1  |         |               |
| 2  |         | See T-5152    |
| 3  |         | " "           |
| 4  |         | " "           |
| 5  |         | USGB decision |
| 6  |         | " "           |
| 7  |         | " "           |
| 8  |         | See T-5151    |
| 9  |         | " "           |
| 10 |         | " "           |
| 11 |         | " "           |
| 12 |         | " "           |
| 13 |         |               |
| 14 |         |               |
| 15 |         |               |
| 16 |         |               |
| 17 |         |               |
| 18 |         |               |
| 19 |         |               |
| 20 |         |               |
| 21 |         |               |
| 22 |         |               |
| 23 |         |               |
| 24 |         |               |
| 25 |         |               |
| 26 |         |               |
| 27 |         |               |

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6290** .....

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

|  |                             |
|--|-----------------------------|
| Number of positions on sheet                         | <b>1615.</b>                |
| Number of positions checked                          | <b>126 (115 Vol. 1 + 2)</b> |
| Number of positions revised                          | <b>...2.</b>                |
| Number of soundings recorded                         | <b>8275</b>                 |
| Number of soundings revised                          | <b>...24.</b>               |
| Number of signals erroneously plotted or transferred | <b>....9.</b>               |

Date: **Nov. 14, 1938**

Verification by **George F. Jordan** Time: **65 hrs.**

Review by **J. A. McCormick**, Nov. 21, 1938 Time: **6 hr.**

HYDROGRAPHIC SURVEY NO. H6290

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 6 Vols., Wire Drag     Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol.#1

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None  
(Circular Nov.30, 1933)

Hydrography: Total Days 11 ; Last Date April 13, 1937

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT } No. H-6290  
~~PHOTOSTAT OF~~ } ~~NO. 11~~

received April 27, 1938  
registered May 3, 1938  
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  |
|-------|---|------------|----------------------|
| 20    |   |            |                      |
| 22    |   |            |                      |
| 24    |   |            |                      |
| 25    | ✓ | <i>RFM</i> | <i>Pages 1 and 2</i> |
| 26    |   |            |                      |
| 30    |   |            |                      |
| 40    |   |            |                      |
| 62    |   |            |                      |
| 63    |   |            |                      |
| 82    |   |            |                      |
| 83    |   |            |                      |
| 88    |   |            |                      |
| 90    |   |            |                      |
|       |   |            |                      |
|       |   |            |                      |

RETURN TO

|    |            |
|----|------------|
| 82 | T. B. Reed |
|----|------------|

✓ *TBR*

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6290 (1937) FIELD NO. 31.

Turkey Island to Little Lake George, St. John's River, Florida.  
Surveyed in March, 1937, Scale 1:5000.

Instructions dated November 2, 1936 (MIKAWA)

Hand Lead Soundings.

3 Point fixes on shore signals.

Chief of Party - L. D. Graham.  
Surveyed by - G. W. Lovesee.  
Protracted by - G. W. Lovesee.  
Soundings plotted by - E. F. Hicks.  
Verified and inked by - G. F. Jordan.

1. Condition of Records:

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that several signals near the southern limits of the present survey which fall outside the high water line do not show the features on which they are located.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

Shoreline originates with topographic maps T-5151 (1935) and T-5152 (1935). Topographic signals originate with graphic control survey T-6394 (1935) and correction sheets C.S. 130M and C.S. 132M.

4. Sounding Line Crossings.

Sounding line crossings are satisfactory.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

- a. The junction with H-6131 (1935-37) on the north is satisfactory.
- b. The junction with H-6295 (1937) on the south will be considered in the review of that survey.

7. Comparison with Prior Surveys.

T-2027 (1875), Scale 1:80,000.

This small scale reconnaissance survey contains a single line of soundings in the portion of the river covered by the present work. This survey has been superseded on the charts by later U. S. Engineers' surveys and need not be considered in future charting.

8. Comparison with Chart 508 (New Print dated July 9, 1938).

a. Hydrography.

The chart is based entirely on surveys by the U.S. Engineers', the latest being B. P. 21055 and 21056 of 1925-26 on scales of 1:12,000. The Engineers' surveys are sparsely developed and contain no features which are not more adequately covered by the present work. They should be superseded by the present survey in future charting of the common area.

b. Controlling Depths.

A general note on the chart states that the controlling depth in St. Johns River is 8 feet as of June 1938. Within the area covered, the present survey shows a controlling depth of 9 feet which is slightly greater.

c. Aids to Navigation.

Charted positions of navigational aids in the area are in substantial agreement with those on the survey.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

The survey of Oklawaha River, which was prevented on the present sheet by lack of shoreline, has been authorized as an additional work item in par. 2 of the instructions of October 20, 1938 to the Launch MIKAWA. No other additional work is required.

11. Superseded Old Surveys.

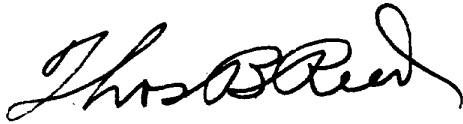
Within the area covered the present survey supersedes the following old survey for charting purposes:

T-2027 (1875) in part.

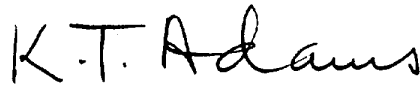
12. Reviewed by J. A. McCormick, November 21, 1938.

Inspected by Harold W. Murray.

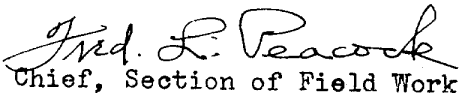
Examined and approved:



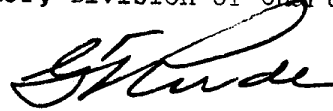
Thos. B. Reed  
Chief, Section of Field Records



Chief, Division of Charts



Chief, Section of Field Work



Chief, Division of Hydrography  
and Topography



DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6290 (1939) Ad.Wk.

FIELD NO. 32

Florida, St. Johns Rivers, Oklawaha River  
Surveyed February 16, 1939, Scale 1:5,000  
Instructions dated October 20, 1938 (MIKAWE)

Soundings:  
Hand Lead

Control:  
Three Point Fixes on Shore signals.

Chief of Party - F. L. Gallen.  
Surveyed by - Edmund L. Jones.  
Protracted by - K. S. Ulm.  
Soundings plotted by - K. S. Ulm.  
Verified and inked by - R. H. Carstens.  
Reviewed by - Harold W. Murray, April 10, 1940.  
Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

- a. The shoreline originates with T-5151 (1935-37). The shoreline westward of long.  $81^{\circ}43'$  (western limit of T-5151) originates with the original drawing of T-5151 which extends sufficiently westward to include this area.
- b. Authority for the signals used is contained in the Descriptive Report (page 1) and in the Sounding Records (Vol. 1, page 3).

2. Sounding Line Crossings.

No cross lines were run. Agreement of adjacent lines, however, is satisfactory.

3. Depth Curves.

Portions of the depth curves may be satisfactorily drawn.

4. Junctions with Contemporary Surveys.

- a. The junction on the east at the mouth of Oklawaha River with the previous 1937 work is satisfactory. The discrepancies listed in the Descriptive Report, page 4 were smoothed out by a slight shifting of the soundings.
- b. The western limit of the present survey represents the limit of the present project.

5. Comparison with Prior Surveys.

No prior surveys have been made in the area covered by the present survey.

6. Comparison with Chart 508 (New Print dated Jan. 23, 1940).

The area covered by the present survey is not charted on Chart 508 and no comparison can, therefore, be made.

7. Condition of Survey.

- a. The sounding records are neat and legible and conform to the requirements.
- b. The field protracting and plotting are satisfactory. Information shown on the smooth sheet submitted by the field party was transferred to the basic smooth sheet, H-6290 (1937) in the office. The submitted smooth sheet was then marked "Boat Sheet."
- c. The Descriptive Report is clear and very comprehensive. The discrepancies in shoreline and signals listed on pages 2 and 3 were, as suspected by the field party, due to discrepancies in transfer and were corrected in the office. A commendable addition to the Descriptive Report is a list (page 2) of all the signals accompanied by individual descriptions of the objects on which each signal was located.

8. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.


9. Additional Field Work Recommended.

No additional field work is necessary.

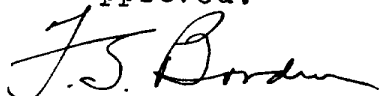
10. Superseded Surveys.

No prior surveys have been made in the area covered by the present survey.

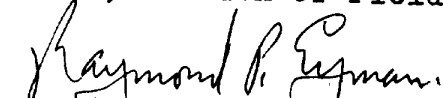
Examined and approved:



T. B. Reed,  
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to Chart Comp. 687 December 15, 1939. L.A. McGowan

# 6290

Additional work 1939

# 6290

Additional work 1939

Form 504  
Rev. April 1935

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 32  
Hydrographic }

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

FEB 19 1940

Acc. No. \_\_\_\_\_

State Florida

LOCALITY

St. Johns River

Oklawaha River

1939

CHIEF OF PARTY

F. L. Gallen

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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. 32

**H6290**

Addl. Wk. 1939

REGISTER NO.

State Florida

General locality St. Johns River

Locality Oklawaha River

Scale 1:5,000 Date of survey Feb. 16, 19 39

Vessel Launch MIKAWA

Chief of Party P. L. Gallen

Surveyed by Edmund L. Jones

Protracted by K. S. Ulm

Soundings penciled by K. S. Ulm

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by R.H. Carstens

Verified by R.H. Carstens

Instructions dated (Supplemental) Oct. 20, 19 38

Remarks:

## DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet 32. H-6290

Oklawaha River, Florida

### INSTRUCTIONS

The hydrography on this sheet is a part of Project HT-212, the Supplemental Instructions for which are dated Oct. 20, 1938.

### SURVEY METHODS

The shoreline and most of the control was furnished by Lieut. H. A. Paton from Air Photographic Surveys made in Palatka, Florida. The shoreline was enlarged from the scale of the air photographic survey (1:10,000) to the scale of the hydrographic survey (1:5,000) by a projector. The signals were scaled from the original sheet and plotted on both the boat sheet and the smooth sheet and are shown by red circles on the smooth sheet.

*changed to purple circles when transferred*

Signal Six (Beacon 86) was located in 1937 on graphic control sheet UU by the party of Lieutenant Commander L. D. Graham.

Air photographic signals were recovered by Lieutenant (j.g.) E. B. Brown, who also established several additional signals by sextometer methods. The additional signals so established are shown by blue circles.

The soundings were taken with a 6 pound lead from a 25 foot skiff powered by a 9½ H.P. outboard motor.

Hydrographic positions were spotted from adjacent topography except at the mouth of the river where three point fixes were taken.

Sounding lines were run parallel with the axis of the river except where marsh grass and hyacinths prevented.

The offshore limits of the hyacinths and broad leafed marsh plant (known locally as tuckahoes) were sketched in the field by the hydrographic party and are so shown on the boat sheet. On the smooth sheet tuckahoes are shown by the "marsh grass in water" symbol since they are attached to the bottom and extend 6 inches to 2 feet above high water; hyacinths are labeled "hyacinths" since they are not attached to the bottom and the limits change with the direction of the wind.

*No symbol. Labeled as tuckahoes.*

Bear Creek, Cooper Creek and part of Machette Creek were blocked by hyacinths at the time of survey and according to local residents are clear of hyacinths only very rarely.

TOPOGRAPHIC AND HYDROGRAPHIC STATIONS

A list of the signals on this sheet and their descriptions is as follows:

Six - Beacon 86  
Rap - fish stake, northeast corner of fish trap  
Why - tree on high water line  
Ebb - temporary stake  
Jon - temporary stake  
Ace - tree  
Box - temporary stake  
Low - snag with 2 feet above water  
Bun - tree  
Nic - temporary stake  
Ton - tree  
Cut - temporary stake  
Log - tree  
Pay - "  
Dit - "  
Wah - temporary stake  
Cig - tree limb 3 meters off high water line  
Cat - branch of over hanging tree  
Dog - branch of bush  
Era - tree  
Fox - bush  
Det - stump  
Nox - temporary stake  
Mop - tree  
Ash - tree  
Cow - tree  
Sex - temporary stake 6 meters off high water line.  
Ant - overhanging tree limb 4 meters off high water line.  
Zog - overhanging limb.  
Tot - temporary stake  
Lot - " "  
Kit - tree on high water line  
Jig - tree  
Ink - overhanging tree limb  
Hot - tree on high water line  
Wow - temporary stake  
Gin - tree

Except for signal Six (see reference on page 1) there are no recoverable topographic or hydrographic stations on this sheet.

DISCREPANCIES.

Three discrepancies with the air photographs were noted while making the hydrographic survey. Since the original air photographic sheet and the pictures have been forwarded to the Washington Office any further investigation of these differences should be made in that office.

The discrepancies are:

1. Deep bight in the tree line in Lat. 29 28.6, Long. 81 43.0. This section of the tree line and shoreline was sketched in the field by the hydrographic party since it was impossible to obtain three point fixes. It is shown on the boat sheet by a heavy solid blue line.

Corrected  
in office.  
R.H.C.

2. Air photo. signal No. 314 (Kit)  
Position - Lat. 29 28 1346 m., Long. 81 42 1343 m.  
Description - Northerly of two 35 foot overhanging gum trees. The signal was recovered on the shoreline while it plots 7 meters off shore on the boat sheet and since it was impossible to take fixes in this vicinity it was not possible for the hydrographic party to take a check fix on the signal or the shoreline. On the boat sheet the signal was spotted on the shoreline abeam of its plotted position and the hydrographic positions were referred to this point. Upon further investigation with the air photographs it may be found that the shoreline is in error in which case the soundings in this vicinity should be replotted.

See verified  
report.  
R.H.C.

3. Air Photo Signal No. 317 (Hot)  
Position - Lat. 29 28 1185 m., Long. 81 42 1011 m.  
Description - 35 foot overhanging gum tree. The signal was recovered on the shoreline while it plots 9 meters offshore on the boat sheet. It was not possible for the hydrographic party to take a check fix on the signal or the shoreline. For use on the boat sheet the signal was spotted on the shoreline abeam of its plotted position and the hydrographic positions were referred to this point. If the shoreline is in error then the soundings in this vicinity should be replotted.

See verified  
report  
R.H.C.

#### DANGERS

There are no dangers to navigation known to exist in the area surveyed.

#### GEOGRAPHIC NAMES

Geographic names for this sheet have been submitted by the air photographic party at Palatka, Florida. Additional names obtained during the hydrographic survey were verified in the field by: Mr. John Peterson, Welaka, Florida, who has been a boatman and fisherman on the Oklawaha River for 20 years. Mr. C. E. Bennett, Welaka, Florida, who has 27 years of local knowledge of this river.

The geographic names obtained by this party are:

- ✓ Oklawaha River - The main river extending from Lat. 29 28.2, Long. 81 41.5 to Lat. 29 28.9, Long. 81 43.1
- ✓ Machette Creek - A creek making off from the Oklawaha in a northwest direction about  $\frac{1}{2}$  mile from the mouth of the Oklawaha.



Johnson Creek - A creek making off the Oklawaha River in a westerly direction in Lat. 29 28.5, Long. 81 42.5.

Bear Creek - A short creek making off from the St. Johns River about 1/4 mile south of the mouth of the Oklawaha and joins Johnson Creek near its junction with the Oklawaha.

Cooper Creek - A small creek making off from the south side of Bear Creek in a westerly direction.

| <u>STATISTICS</u> - | Statute Miles | Soundings | Positions |
|---------------------|---------------|-----------|-----------|
|                     | 10.0          | 621       | 103       |

LANDMARKS

There are no landmarks of sufficient prominent<sup>c</sup> to chart on this sheet.

COMPARISON WITH PREVIOUS SURVEYS

A junction was made at the mouth of the river with hydrographic survey (registry No. H-6290) made in 1937, there being no previous surveys in the Oklawaha River.

There are 4 soundings at the mouth of the river which are not in agreement with the 1937 survey. They are:

1. A 6 foot sounding on a 2 foot sounding of the 1937 survey in Lat. 29 28.3, Long. 81 41.25. agreement of RHC
2. A 16 foot sounding on a 11 foot sounding of the 1937 survey in Lat. 29 28.2, Long. 81 41.4. adjusted RHC
3. A 6 foot sounding on a 10 foot sounding of the 1937 survey in Lat. 29 28.2, Long. 81 41.4. adjusted RHC
4. A 9 foot sounding between a 4 and 5 foot sounding in Lat. 29 28.2, Long. 81 41.4. adjusted RHC

In both surveys the sounding lines paralleled the axis of the stream and the same leadsman sounded this junction on both surveys. The above differences are due to the leadsman sounding on a steep slope of the creek banks where a meter or two difference in the position of the skiff causes a large difference in the soundings.

Submitted by,

*Edmund L. Jones Jr.*  
Edmund L. Jones  
Jr. H. & G. Engr.

Approved by,

*F. L. Gallen*  
F. L. Gallen  
H. & G. Engineer  
Chief of Party

*Note: This office was detached before sheet was plotted & hence not avail. to sign report.*

*H-6290(1939) Add. v.k.*

Smooth sheet, field No. 52, was plotted under the immediate supervision of the Chief of Party. The sheet and records have been inspected and are approved.

*F. L. Gallen*  
F. L. Gallen  
H. & G. Engineer  
Chief of Party

LAC  
HRC

# TIDE NOTE FOR HYDROGRAPHIC SHEET

March 9, 1940

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET

6290

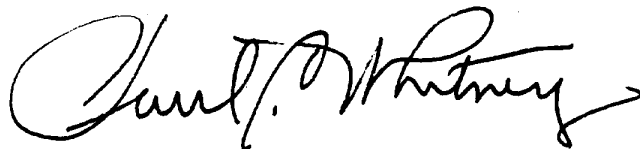
*add work*

Locality Oklawaha River, St. Johns River, Florida

Chief of Party: F. L. Gallen in 1939  
Plane of reference is mean low water reading  
3.1 ft. on tide staff at Welaka  
22.7 ft. below B. M. "Welaka" (1935)

Height of mean high water above plane of reference is 0.5 foot.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Remarks

Decisions

|    | Remarks | Decisions          |
|----|---------|--------------------|
| 1  |         | 294816-17          |
| 2  |         | ..                 |
| 3  |         | 294816-17 U.S.G.B. |
| 4  |         | .                  |
| 5  |         | 294816-17          |
| 6  |         | USG.B.             |
| 7  |         |                    |
| 8  |         |                    |
| 9  |         |                    |
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| 23 |         |                    |
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| 25 |         |                    |
| 26 |         |                    |
| 27 |         |                    |

# GEOGRAPHIC NAMES

Survey No.  
H-6290 Addl. Wk.

Name on Survey

| Name on Survey         | Source          |                           |                             |                           |                  |                       |                       |                     |    |  |  |    |
|------------------------|-----------------|---------------------------|-----------------------------|---------------------------|------------------|-----------------------|-----------------------|---------------------|----|--|--|----|
|                        | 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. |  |  |    |
| <u>Johnson Creek</u>   |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 1  |
| <u>Cooper Creek</u>    |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 2  |
| <u>Oklawaha River</u>  |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 3  |
| <u>Machette Creek</u>  |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 4  |
| <u>Bear Creek</u>      |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 5  |
| <u>St. Johns River</u> |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 6  |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 7  |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 8  |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 9  |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 10 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 11 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 12 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 13 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 14 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 15 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 16 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 17 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 18 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 19 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 20 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 21 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 22 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 23 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 24 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 25 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 26 |
|                        |                 |                           |                             |                           |                  |                       |                       |                     |    |  |  | 27 |

Names checked and approved  
by L. Heck on 5/10/40

Field Records Section (Charts)

**H6290**

HYDROGRAPHIC SHEET NO. ....

**Additional Work 1939**

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

|  |               |
|--|---------------|
| Number of positions on sheet                         | <i>.103.</i>  |
| Number of positions checked                          | <i>.5...</i>  |
| Number of positions revised                          | <i>...4..</i> |
| Number of soundings recorded                         | <i>..6.21</i> |
| Number of soundings revised                          | <i>...6.</i>  |
| Number of soundings erroneously spaced               | <i>....0.</i> |
| Number of signals erroneously plotted or transferred | <i>...2.</i>  |

Date: *March 29, 1940*

Verification by *R.H. Carstens*

Time: *23 hrs*

Review by *Harold W. Murray*

Time: *3 hrs.*

HYDROGRAPHIC SURVEY NO. H6290

Additional Work 1939

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 1 Vols., Wire Drag     Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) None

Statistics No

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None  
(Circular Nov.30, 1933)

Hydrography: Total Days 1 ; Last Date Feb. 16, 1939

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# MEMORANDUM

## IMMEDIATE ATTENTION

|  |   |  |   |  |
|--|---|--|---|--|
| SURVEY<br>DESCRIPTIVE REPORT<br>PHOTOSTAT OF | } | No. H 6290<br>Addl. Wk. 1939<br><del>No. 1</del> | { | received<br>registered<br>verified<br>reviewed<br>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 |
|-------|--|---------|---------------------|
| 20    |  |         |                     |
| 22    |  |         |                     |
| 24    |  |         |                     |
| 25    |  |         |                     |
| 26    |  |         |                     |
| 30    |  |         |                     |
| 40    |  |         |                     |
| 62    |  |         |                     |
| 63    |  |         |                     |
| 82    |  |         |                     |
| 83    |  |         |                     |
| 88    |  |         |                     |
| 90    |  |         |                     |
|       |  |         |                     |
|       |  |         |                     |

RETURN TO

|    |            |
|----|------------|
| 82 | T. B. Reed |
|----|------------|

✓ TBR



Verifier Report for H-6290 (1939) Add'l Wk.

1. The shoreline originates with T-5151 (1935). See descriptive report for origin of signals. The shoreline and signals were transferred from the smooth sheet sent in by the field party to H-6290 (1937) signals, located by the air photographic party, originally inked in red were changed to purple in order to differentiate between them and signals already on H-6290 (1937) located by graphic control.
2. Depth curves could be satisfactorily drawn.
3. Junction with H-6290 (1937) was satisfactory.
4. Condition of sounding records was satisfactory.
5. Field protracting was satisfactory.
6. Field plotting of soundings was satisfactory.
7. The shoreline mentioned in discrepancies 2 and 3 of page 3, descriptive report, was found to be transferred in error and was altered. Signals Kit and Hot were replotted on the shoreline only a couple of meters from the positions given by the air photographic party.

Respectfully submitted

R. H. Carstens

4/30/40