

6436

6436

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. H-6436
Hydrographic }

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
APR 1 1940
Acc. No.

State Florida *Sea 458*

LOCALITY
St. Johns River

Lake Jessup

1939

CHIEF OF PARTY
F. L. Gallen

U. S. GOVERNMENT PRINTING OFFICE

68 112

458

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. 62

H6436

REGISTER NO. H-6436

State Florida

General locality St. Johns River

Locality Lake Jessup

Scale 1:10,000 Date of survey March, 1939

Vessel Launch MIKAWA

Chief of Party F. L. Gallen

Surveyed by C. A. Schanck

Protracted by Marvin C. Jenkins

Soundings penciled by Marvin C. Jenkins

Soundings in ~~fathoms~~ feet

Plane of reference Mean Local Low Water
M.S.L.

Subdivision of wire dragged areas by _____

Inked by L. S. Straw

Verified by L. S. S.

Instructions dated October 20, 1938

Remarks: _____

Smooth Sheet H-6436 (Field No. 62)

Prepared in Washington office January 22, 1940.

Projection on ruling machine by S. Kass.

Shore line transferred in projector from air photographic surveys T-5619, T-5618, and T-5690, by R. E. Elkins and J. P. Dunich.

Shore line checked by R. E. Elkins.

Sent to field with shore line in pencil.

The air photographic surveys T-5619, T-5618, and T-5690 show no hydrographic or topographic signals.

Triangulation stations have not been plotted.

Please make this memorandum a part of the descriptive report.

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet H-6436

INSTRUCTIONS - (Supplemental) October 20, 1938, Project HT-212

SURVEY METHODS

The work on this sheet was accomplished using a 25 foot skiff propelled by two 9 H.P. outboard motors. Practically all soundings were taken with a sounding pole, the lead being used only in the vicinity of holes of more than seven feet depth. The positions of the lines were determined by visual fixes of signals located by triangulation or graphic control on aluminum sheets of the same scale as the hydrographic sheet. The hydrography was executed prior to the location of the shoreline.

DISCREPANCIES

There are no appreciable discrepancies on this sheet. There are a number of one half foot discrepancies in depth where cross lines were run. This is due to the extreme softness of the bottom and the shoaler depth is recommended in each instance.

DANGERS

The lake is practically free from dangers for any boat that can enter its outlet. Along the southern shore of the lake between hydrographic signals Hue and Nil there are a number of old piling projecting six to twelve feet above the water and several piling and snags slightly below the surface. With the exception of two snags *(one called a submerged pile)* the northern limits of this foul area is established by the line run between positions 139e and 145e. The locations of the two snags outside this line were determined.

In the cove between triangulation station Whites Wharf and Signal Gal the water for about 100 to 150 meters offshore is foul with submerged logs and snags.

As clearly indicated by the survey a rather extensive shoal makes off to the southeast from the southern end of Bird Island.

SIGNALS

Due to the extreme shoalness of the water and the softness of the bottom and the marsh near the water line, the majority of the signals on the sheet were built from a boat and are a few meters outside the low water line. With the following exceptions the signals were flags or banners on 2x4 or 2x2 stakes pushed down in the mud: Signals Hue, Jay, Kit and Mud are single piling. Signal Irk is a cluster pile. Signal Bug is the north gable of a small old boathouse. Signals Ape and Zev are temporary signals made of 2x4 stakes. They are a considerable distance outside the waterline due to the fact that at the time they were established a hyacinth mat prohibited a closer approach to the shore.

CHANNELS

There is no channel at either the inlet or the outlet of the lake and no appreciable channel anywhere in the lake although the water is deeper along the south shore than in other parts of the lake. Although a controlling depth of $1\frac{1}{2}$ feet was found entering the lake, boats drawing not more than two feet can enter the lake at low water by dragging over the very soft mud bottom.

25

COMPARISON WITH PREVIOUS SURVEYS

There has been no previous hydrographic survey of Lake Jessup. A satisfactory junction was made with the hydrography of Field Sheet No. 58, Scale 1:5,000. *T-1512 (1883) (contains hydrography).*

GEOGRAPHIC NAMES

No information relative to geographic names is included in this report since the air photographic survey party working in this area will submit a report on geographic names that will include not only the names in the immediate vicinity of the lake but also for a considerable area around the lake not visited by the hydrographic party. While on the working grounds the hydrographic party compared notes with the air photographic survey party and verified all names that had been obtained by the hydrographic party.

GENERAL

The hydrographic survey of Lake Jessup was made when the water level of the lake was unusually low. During the time of the survey the outlet of the lake was free of hyacinths but according to local reports the outlet is sometimes choked with them for weeks at a time, when the lake level is up due to heavy rains and the current through the outlet is strong. Nearly all sloughs feeding into the lake were choked with hyacinth mats at the time of the survey and large numbers of them were found in the southeastern part of the lake, shifting about with the changes in the direction of the wind and making sections along the southern shore impassable during northerly winds and choking bights and coves along the northern shore when the prevailing wind was southerly.

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LANDMARKS FOR CHARTS

There are no landmarks worthy of charting anywhere along the shores of the lake or in the water area of the lake.

Approved

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

Submitted by,


Charles A. Schanck
Charles A. Schanck
Jr. H. & G. Engr.

H6436

STATISTICS

Date	Day	Statute Miles	Soundings	Positions
March 17	a	13.5	844	163
20	b	22.7	1077	158
21	c	27.5	1183	169
22	d	23.8	1042	165
23	e	27.2	1211	169
24	f	17.8	776	101
27	g	23.0	1117	172
28	h	31.4	1400	193
29	j	3.7	170	24
		<hr/>	<hr/>	<hr/>
		190.6	8820	1314

Smooth sheet No. H-6436 was plotted under the immediate supervision of the Chief of Party. The sheet and records have been inspected and are approved.


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

Remarks.

Decisions

1		287812
2		U.S.G.B
3		287812
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GEOGRAPHIC NAMES

Survey No. H-6436

Name on Survey

On Chart No.
On previous survey No.
On U. S. quadrangle Maps
From local information
On local Maps
P. O. Guide or Map
Rand McNally Atlas
U. S. Light List

A, B, C, D, E, F, G, H, K

Lake Jessup

St. Johns River

Bird Island

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Names underlined in red approved
by L. Heck on 4/22/40

HYDROGRAPHIC SURVEY NO. H6436

Smooth Sheet One

Boat Sheet One

Records; Sounding 5 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) No *See DR*

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service
(Circular Nov.30, 1933) No

Hydrography: Total Days 10 ; Last Date March 29, 1939

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6436**

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

Number of positions on sheet	131.4
Number of positions checked 2
Number of positions revised 0
Number of soundings recorded	8820
Number of soundings revised 0
Number of soundings erroneously spaced 50
Number of signals erroneously plotted or transferred 0

Date: *April 16, 1940*

Verification by *L. S. Straw*

Review by

L. S. Straw

Time: *22½ hours.*

Time: *22 "*

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOGRAPH OF~~

No. H-6436

~~NO. 1~~

received April 1, 1940
registered April 2, 1940
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>HK</i>	<i>Pages 1 and 2</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	Lieut. Reed
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✓ *JOSOR*

RAC
#102

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 6, 1940

Division of Hydrography and Topography:

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

Plane of reference approved in
5 volumes of sounding records for

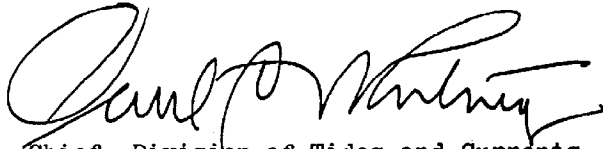
HYDROGRAPHIC SHEET 6436

Locality Lake Jessup, St. Johns River

Chief of Party: F. L. Gallen in 1939
Plane of reference is mean low water reading
2.7 ft. on tide staff at Lake Jessup
2.2 ft. below B. M. Triangulation Station "Cooper"

There is no periodic tide in this area. The plane of reference is average water level during the period of lower lake levels and corresponds approximately to the sea-level datum of the Level-net.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6436 (1939) FIELD NO. 62

Florida, St. Johns River, Lake Jessup
Surveyed in March 1939, Scale 1:10,000
Instructions dated October 20, 1938 (MIKAWA)

Soundings:
Pole and hand lead,
where over 7 feet deep.

Control:
Three point fixes on shore signals.

Chief of Party - F. L. Gallen.
Surveyed by - C. A. Schanck.
Protracted by - M. C. Jenkins.
Soundings plotted by - M. C. Jenkins.
Verified and inked by - L. S. Straw.
Reviewed by - L. S. Straw, April 16, 1940.
Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

The shoreline is from topographic maps T-5618, T-5619 and T-5690. The signals are from control sheets (not to be registered) 179-M, 180-M and 181-M. All signals outside of the high water line are of a temporary nature unless otherwise indicated.

2. Depth Curves.

The six foot curve is completely shown; no other curves are shown on the survey.

3. Sounding Line Crossings.

Satisfactory.

4. Junction with Contemporary Surveys.

The junction with H-6432 (1939) will be considered in the review of that survey.

5. Comparison with Prior Surveys.

T-1512 (1883) scale 1:80,000.

Within the limits of the present survey this old small scale survey consists of a single line of soundings run around the lake about 250 meters from shore. The soundings are generally 2 to 3 feet deeper than the depths on the present survey.

Within the common area the present survey should supersede the hydrography on this old survey.

6. Comparison with Chart.

No soundings from the present survey fall within the area of a published chart. This area is to be included in the new chart No. 688.

7. Condition of Survey.

Satisfactory.

8. Compliance with Instructions for the Project.

Satisfactory.

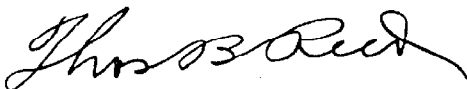
9. Additional Field Work Recommended.

No additional field work is required.

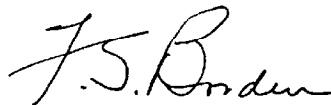
10. Superseded Old Surveys.

T-1512 (1883) in part, (contains hydrography).

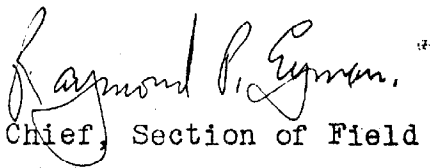
Examined and approved:



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. 688, May 6, 1940. H. Mae Ewson