

5796

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. 11
~~Hydrographic~~ }

State FLORIDA

LOCALITY
Vicinity of Apalachicola Bay
LAKE WIMICO ~~Florida Route~~

~~INLAND ROUTE~~

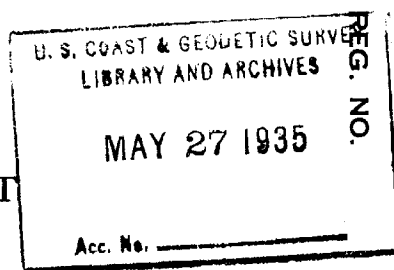
1935

CHIEF OF PARTY

G. A. Egner

5796

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



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. 11

REGISTER NO. **5796**

State Florida

General locality ~~Gulf Coast~~ Vicinity of Apalachicola **Bay**

Locality ~~Inside Route~~ Vicinity of Lake Wimico ~~Inside Route~~

Scale 1/10000 Date of survey March-May, 19 35

Vessel Party No. 23

Chief of Party C. A. Egner.

Surveyed by R. E. Dille

Protracted by M. C. Burr, C. A. Egner.

Soundings penciled by C. A. Egner.

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by _____

Inked by Mrs. M. D. Olsen

Verified by R. BURTON G. W. SCHUCKER

Instructions dated Nov. 30, 1934., 19

Remarks: _____

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC

SHEET NO. 11

INSTRUCTIONS:

This sheet was executed under instructions dated November 30, 1934, covering operations of Field Party No. 23, as a part of the combined project from Apalachicola Bay to Mobile Bay. ✓

PURPOSE:

To provide a comprehensive survey of the Inside Route from Apalachicola to Panama City, none having existed, and to furnish data to the U. S. Engineers' Department for the proper maintenance of dredged channels along this Route. ✓

LIMITS AND JUNCTIONS:

This sheet covers Lake Wimico and about three (3) miles of dredged cut extending to the N. W. of Lake. The sheet is joined by sheet #10 to the southward. This sheet forms the limits of territory surveyed by this party in the Route to the northward, and joins work of Lt. Patterson at triangulation station U. S. E. D. 32 near White City. ✓

Survey not yet accomplished

CONTROL:

Control for hydrography in Lake Wimico was furnished by signals located with plane table based on the scheme of 2nd order triangulation by Lt. Anderson. Additional U.S.E.D. triangulation in Lake Wimico was found to be of suitable accuracy to be used in connection with

the work of Lt. Anderson. All were reduced to the same datum by recomputing the U.S.E.D. data. Below Lake Wimico what few stations as are found on this sheet are based on a theodolite and stadia traverse between U.S.E.D. 14 and U.S.E.D. stations in Lake Wimico. All topographic signals were located from this traverse as a basis. Engineers' work depends upon traverse of doubtful accuracy and localized by sections of this inside route.

The day beacons, in the Lake, cut in by plane table were the only additional signals used.

The traverse established ^{by} the U.S.E.D. on the R. Q. W. of the dredged cut above Lake Wimico to U.S.E.D. 32 was not used as it involved more work than was considered justified. It was not possible to set the plane table up on the banks of the cut. It is our understanding that the U.S.E. Department will do their own topography along this Route, the data for which will be available at some future date. Topography being impractical in the dredged cut above the Lake the hydrography was spotted. Entire shoreline for sheet depends on photos obtained from photo-compilation unit under Lt. Reese. Only dredged cut and dredged channels were sounded, omitting all side creeks, as they were practically unimportant. Controlling depth in dredged cut through lake established by $7\frac{1}{2}$ foot sounding opposite day beacon #21. the natural channel in lower end of Lake Wimico was not used by the U.S. Engineers, as they preferred to keep the channel straight from end to end.

Right of way

CONTROL -- VERTICAL:

Soundings were reduced from tidal data obtained from staffs and gages established and operated at Huckleberry landing and White City. Planes for Huckleberry and White City were determined by direct comparison with the portable automatic gage at Apalachicola, the plane for which was in turn derived from Key West. The U.S. Engineers established a tide gage at U.S.E. 14 with an assumed plane. Their Bench Mark (U.S.E. 14 station mark) was used as one of our Bench Marks and the plane re-established by direct comparison with Apalachicola. This furnished the U.S.E. Department with a comparison with

our plane. There is very little tide in the lake, the water level depending more on wind conditions than upon the tide.

COMPARISON WITH PREVIOUS SURVEYS:

Only Reconnaissance existed previously, in this vicinity and the location and shape of waters were badly charted, the error being as much as $1\frac{1}{2}$ miles in places.

No attempt was made to do hydrography in the minor creeks bordering Lake Wimico as they have no importance whatsoever.

In dredging the channel in Lake Wimico, a spoil bank was formed on the S.W. side of the line of beacons. Sounding over this spoil bank seemed to serve no useful purpose, so it was omitted.

The channel here is maintained at a depth of 6 feet and a width of 65 feet.

No drawbridges or ferries cross the Inside Route within the confines of this sheet.

COAST PILOT NOTES:

These are taken up for the season as a whole, and form a separate report.

STATISTICS:

Accompany this report.

TIDAL DATA:

Curves showing data for the reduction of soundings accompany this report.

LIST OF SIGNALS USED:

One copy herewith, the duplicate under the fly leaf of Volume No. 1.

Respectfully submitted,

R. E. Dille

R. E. Dille, Surveyor

Approved and forwarded,

C. A. Egnor
C. A. Egnor, Lieut.,
Chief of Party #23.

LIST OF SIGNALS SHEET NO. 11

<u>TRIANGULATION NAME</u>	<u>TOPOGRAPHIC</u>	
T.P. 25	3	31
T. P. 26	5	33
E. I. 18	7	35
East Base	9	37
West Base	11	39
Tower	13	41
Columbus Bayou	15	43
Double Bayou	17	45
Shell Point	19	47
Coldwater Point	21	49
Indian Bayou	23	51
Searcy	25	
	27	
	29	

HYDROGRAPHIC NAME

25
 26
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STATISTICS FOR HYDROGRAPHIC SHEET NO. 11

<u>DATE</u>	<u>DAY LETTER</u>	<u>BOAT</u>	<u>SOUNDINGS</u>	<u>POSITIONS</u>	<u>MILES</u>	<u>VOLUME</u>
3/13/35	a	GONDOLA #2	619	125	18.4	1
3/14	b	"	105	23	2.9	1
3/15	c	"	736	132	20.1	1
3/19	d	"	491	103	16.7	1
3/20	e	"	755	182	23.4	2
5/6	f	"	289	77	8.6	2
TOTALS			2995	642	90.1	

HYDROGRAPHIC SURVEY NO. H5796

Smooth Sheet 1

Boat Sheet 1

Sounding Records 2 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes in Vol. 1

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party C. A. Eger

Recoverable Station Cards (Form 524) _____

Special Chart for Lighthouse Service _____
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ...5796

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

Number of positions on sheet	642.
Number of positions checked	209.
Number of positions revised	4.
Number of soundings recorded	2995.
Number of soundings revised	22.
Number of signals erroneously plotted or transferred	0.

Date: 7/12/35

Verification by R. BURTON, G.W. SCHUCKER

Inking Mes. M. D. Olsen

Review by

V. D. Behn
R. J. Christman

Time: 26 hrs.

Time: 25 hrs.

Time: 6 hrs.

1 1/2

RAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 11, 1935

Division of Hydrography and Topography:

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

Tide Reducers are approved in
2 volumes of sounding records for

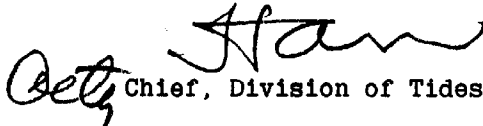
HYDROGRAPHIC SHEET 5796

Locality Lake Wimico and Inside Route, Florida

Chief of Party: C. A. Egner in 1935
Plane of reference is mean low water reading
2.2 ft. on tide staff at Huckleberry Landing
1.6 ft. below B.M.1
3.6 ft. on tide staff at White City
3.5 ft. below B.M. 1

Height of mean high water above plane of reference is 0.7 foot at
Huckleberry Landing; 0.5 foot at White City.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

Verification Report H-5796

I Conformity to Hydrographic Manual

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

II Depth Curves

The six, twelve, eighteen, and thirty foot curves are drawn. It may be necessary to change the position of the six foot curve along the dredged channel when we receive information about the width and correct location of channel.

III Field and Office Plotting

The field plotting as a whole was satisfactory. Mr. R. Barton the verifier who verified most of this sheet did not remove any half-feet and these were all inked by the Inking Division. This is complicated two areas that they were removed and replotted. (Positions [17c to 19c, 22c to 24c, 16f to 29f] and [11a to 14a, 30f to 48f, 7f to 8f, 39a to 41a]).

IV Junctions

There are no junctions with other sheets except with sheet H 5797 which is the continuation of this survey.

V Remarks

Mr. R. Barton verified all of this sheet except part of the day and the sheet was inked by the Inking Division.

The shoreline was checked with Air Photo Compilation sheet T 5505 and found to be correct.

The $\frac{1}{2}$ feet which were inked by the Inking Division have been removed causing a slight displacement of some of the soundings.

The soundings which appear on both 5796 and 6797
were inked in red. The sdps on H-5796 were over inked in black.
RHP

Respectfully submitted,
Gery N. Schucka

7/12/35

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5796 (1935) - FIELD NO. 11

Lake Wimico, Vicinity of Apalachicola Bay, Florida
Surveyed in March - May, 1935
Instructions dated November 30, 1934 (C. A. Egner)

Hand Lead Soundings.

3 Point Fixes on Shore Signals
And Positions Spotted in Refer-
ence to Shore Line

Chief of Party - C. A. Egner.
Surveyed by - R. E. Dille.
Protracted by - M. C. Burr, C. A. Egner.
Soundings penciled by - C. A. Egner.
Verified by - R. Burton, G. W. Schucker.
Inked by - M. D. Olsen.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. No copy of Landmarks for Charts on Form 567 accompanied this particular sheet.
- b. Degree and minute symbols were not shown on the smooth sheet. These have been added in the office.

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, except that no cross lines were run.

3. Sounding Line Crossings.

No cross lines were run, however adjacent parallel lines are in good agreement.

4. Depth Curves.

Within the limits of the survey the usual depth curves can be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

The junction with H-5797 (1935) on the southeast is satisfactory.

No contemporary surveys of the Intracoastal Waterway, to the west of this survey, have been received.

6. Comparison with Prior Surveys.

There are no prior hydrographic surveys of this Bureau within the area of the present survey.

7. Comparison with Charts No. 183 and 184.

a. Hydrography.

Except for one sounding at the junction of Jackson River and Lake Wimico (lat. $29^{\circ}46.5'$, long. $85^{\circ}06.5'$), no hydrography is shown on the chart within this area. This sounding originates with a U. S. Engineers survey of 1909 (Bp. 15100) and is in fair agreement with the present depths. However, in view of the completeness of the present survey, this Engineers survey should not be used in future charting.

b. Controlling Depths.

The Descriptive Report, page 3, states that the dredged channel through Lake Wimico is maintained at a depth of 6 feet and a width of 65 feet. The least depth through this cut shown on the present survey is $7\frac{1}{2}$ feet near Bn. 21.

c. Aids to Navigation.

The day beacons marking the channel through Lake Wimico were located by plane table. These beacons are not shown on the present editions of the charts.

8. Field Plotting.

The field plotting and protracting is satisfactory and conforms to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

This survey is complete and no additional work is required.

10. Superseding Old Surveys.

There are no prior hydrographic surveys of this Bureau within the area of the new survey.

11. Reviewed by - V. D. Behn, July 20, 1935.

Inspected by - R. L. Johnston.

Examined and approved:

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

L. O. Robert
Chief, Division of Charts.

J. S. Borden
Chief, Section of Field Work.

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

applied to chart 1262 - Jan. 1940. J.H.S.
applied to IWW #866 Apr 1946 CRN
~~applied to~~
Applied to chart 867 7/13/46 WAB.