

5782

U. S. COAST & GEODETIC SURVEY
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Form 804
Ed. June, 1928

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

State: Florida

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 3
Hydrographic }

LOCALITY

St. Andrew Bay
Davis Point
Long Point to Courtney Point Shoal

1935

CHIEF OF PARTY

Wm. D. Patterson

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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REG. NO.
Acc. 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. 3

REGISTER NO. 5782

State Florida

General locality St. Andrew Bay

Locality Long Point to ~~Courtney Shoal~~ Davis Point

Scale 1:10,000 Date of survey Feb. - Mar., 19 35

Vessel Field Party No. 5

Chief of Party Wm. D. Patterson

Surveyed by Lieut. (j.g.) George E. Morris, Jr.

Protracted by J. C. McIlwaine

Soundings penciled by Charles R. Smith

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by S. Rosen

Verified by G. H. Everett + M. Silverberg

Instructions dated November 30, 19 34

Remarks:

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. (field) 3

ST. ANDREW BAY

LONG POINT TO COURTNEY POINT SHOAL

Project HT-195

Wm. D. Patterson

Chief of Party

DATE OF
INSTRUCTIONS:

Director's instructions for Project HT-195, dated
November 30, 1934.

SURVEY
METHODS:

Standard methods of hydrographic surveying were followed. Positions were obtained by three point sextant fixes taken on objects located by triangulation or topography. Depths were measured in the deep parts of the bay from a small launch with a phospher bronze stranded wire center, mahogany tiller rope lead line marked in fathoms and feet, and in the shoal parts of the bay and in the bayous from a large flat bottomed skiff with a sounding pole also marked in fathoms and feet.

DISCREPANCIES:

No discrepancies were noted in cross lines and soundings.

The comparatively deep holes along the shore between longitude 85° 40' and 85° 42', north of latitude 30° 09' are due to dredging in that area to build up the shore.

DANGERS:

The shoal water near shore and in the bayous, east of longitude 85° 40' are strewn with fallen trees and sunken logs.

In general shoals make pretty well out from the points of land and then drop off sharply.

The two beacons east of Red Fish Point are not set on the edge of deep water, for that reason, vessels should not pass too close to the beacons.

There is a large Middle Ground which lies about half-way between Red Fish Point and the mouth of Massalena Bayou. The Middle Ground has a hard bottom with a least depth of $11\frac{1}{2}$ feet.

Watson Bayou north of latitude $30^{\circ} 08'.5$ is strewn with old wrecks and broken piling which makes this body of water dangerous for vessels not familiar with this bayou.

Submerged wreck in Watson Bayou longitude $85^{\circ} 38'$, latitude $30^{\circ} 08'.4$, in ¹⁶ 16 feet of water and bares 2 feet at low water.

Partly submerged wreck in Watson Bayou longitude $85^{\circ} 37'.9$, latitude $30^{\circ} 08'.7$, in ¹⁴ 14 feet of water, one end bares more than 2 feet at low water.

MARINE RAILWAYS:

Millville on Watson Bayou, St. Andrews Foundry and Machine Co. Ship Yard can haul vessels up to 160 feet in length and 500 tons.

Panama City, Massalena Bayou, Marine Railway for small craft up to 50 feet and 60 tons capacity.

CHANNELS:

The main intracoastal waterway passes through this bay. As there is sufficient water in this bay for most any vessel, there is no dredged channel.

ANCHORAGES:

Any where in this bay is suitable for anchorage except the bayous on the south side as they are too shoal to enter.

COMPARISON WITH PREVIOUS SURVEYS:

This sheet compares very closely to the only previous survey, except for the Middle Ground which was found with $11\frac{1}{2}$ feet of water on it, where the previous survey showed a least depth of 13 feet.

↑ 11 to 12' on H-514 (1955).
14 1/2' on H-1375 (1977).
13 on Bp 24863 (1931)
MUM.

OYSTERS:

There were no oyster beds found on this sheet.

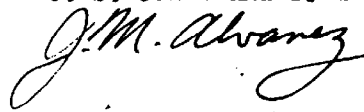
There are probably no beds as the water is too deep to dig them and no dredging of oysters was noted during the survey.

GEOGRAPHIC
NAMES:

The geographic names for places on this sheet are listed under the topographic sheets of the area.

Respectfully submitted,

J. M. Alvarez, Observer,
U. S. Coast and Geodetic Survey.



Approved and forwarded;



Wm. D. Patterson, Lieut.,
Chief of Field Party No. 5.

STATISTICS SHEET 3

Day Letter	Date 1935	Color	Number of Soundings	Number of Positions	Statute miles of soundings	Vol.
A	Feb. 25	Red	918	207	30.8	1
B	Feb. 26	"	219	51	7.9	1
C	Feb. 27	"	830	199	28.3	1 & 2
D	Feb. 28	"	881	203	31.1	2
E	Mar. 1	"	867	187	26.8	2 & 3
F	Mar. 4	"	887	189	22.0	3
G	Mar. 5	"	960	241	40.7	3 & 4
H	Mar. 6	"	1001	240	31.7	4 & 5
J	Mar. 7	"	449	90	7.2	5
K	Mar. 8	"	676	112	11.0	5
L	Mar. 9	"	1123	197	24.0	5 & 6
M	Mar. 11	"	631	116	12.0	6
N	Mar. 13	"	908	216	27.2	6 & 7
P	Mar. 14	"	957	200	22.3	7 & 8
Q	Mar. 15	"	961	176	19.1	8
R	Mar. 18	"	1158	221	18.8	8 & 9
S	Mar. 19	"	790	162	13.5	9
T	Mar. 20	"	1103	214	21.1	9 & 10
U	Mar. 21	"	888	190	20.5	10 & 11
Totals			16,207	3411	416.0	

Area, square statute miles - 9.0

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **5782**

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

Number of positions on sheet	3411
Number of positions checked	306
Number of positions revised	13
Number of soundings recorded	16207
Number of soundings revised	72
Number of signals erroneously plotted or transferred

Date: Aug. 7, 1935

Verification by *M. Silverberg*
G. H. Everett
Inked by - *Rosen (16 3/4 hrs)*

Review by *H. W. Murray*

Verification Corrections by "

Time: $25\frac{3}{4}$ hrs.
86 "
7 $\frac{1}{2}$ "
3 $\frac{3}{4}$ "

REPORT ON H-5782.

General Instructions.

The records conform to the requirements of the General Instructions and were generally well written up.

Field Drafting.

The field drafting was well executed. A few docks shown on the air-photo Compilation sheet were not shown on the smooth sheet and so were inked on this sheet in the office.

Generally the curves as delineated by the field draftsman were satisfactory.

Curves.

The usual depth curves could be drawn. All were complete within the limits of this survey with the exception of the 200 curve, which was only found in spots.

Junctions.

Junction was made with H-5783 (1935) to the west and with H-5781 (1935) to the south east. Both were satisfactory and the curves were adjusted on each to agree with this sheet. (See Rev.)

Remarks.

(1) Lat. 30-08.7, Long. 85-37.9. The boat sheet shows an obstruction or danger with a note "High Point of wreck." The air-photo compilation sheet also shows a shoal area. But the records do not mention anything (See 92T-93T). Soundings have been plotted on this line or bending around this area and the note applied from boat sheet.

(2) Fixed Bridge. Lat. 30-09.2, Long. 85-39.3. See also Vol XI pg. 12. Data for the clearance of this bridge was taken on a day in which no sounding was done and no tide reducer has been entered in the record to determine the clearance at M.H.W. Reduced data listed in the D.R. of T-6302 (1935) accepted and shown on sheet. xum

(3) Small dock, lat. 30-07.3, long 85-36.3. This dock is shown on the air-photo compilation sheet but not mentioned in the records. Its location or existence is questioned as a sounding line cuts thru the dock. The air-photo compilation section has not checked this as yet to date. O.K. ~~MS~~

(4) The piling and sunken logs (lat. 30° 08.9, long. 85° 38') were taken from the Boat sheet.

(5) This survey has been compared with plane table sheets T-6284 and T-6302, Compilation T-5517, 5518, 5519 and all necessary changes made.

* Positions 54 and 116M practically fall on dock and a slight displacement of these positions would tend to disprove the dock. It is quite probable that the dock exists altho not mentioned in the records nor shown on T-6284. Dock retained.

Note Added July 3, 1936

a review of air photo sheet T-5519 (see report for that sheet) disagreed with plane table topography of Watson Bayou (see T-6302) signals Rat, Que and Box were in error according to air photo compilation which was accepted.

These 3 signals were replotted from scaled positions of T-5519 and the ^{other} signals in Watson Bayou were adjusted to these signals. The shore line was ~~transferred~~ ^{corrected} and hydrography replotted in this area.

a complete comparison of the air photo shore line was made for this sheet with aid of the projection machine and changes were made where the shore line showed disagreement with hydro. It is to be noted that the original transfer was not too good and other slight discrepancies were not made. Signals shown on T-5519 checked with this sheet, except ~~by Watson Bayou~~.

In lat 30-07.3, long 85-40.1 The air photo shows pier ruins which were not mentioned in records or shown on B.S. This has been added.

In lat 30-07.7, long 85-39.7 air photo shows projecting points of land as dashed line. This was not changed.

H. Everett

Review remained same after changes were made, at time of correction, sheet had not been applied to the sheet therefore no additional notes to Cartographer section is necessary July 7, 1936 H. M. Murray

Respectfully submitted,

Aug. 7, 1935

George T. Everett
M. Silverberg

Aug. 16, 1935

HYDROGRAPHIC SURVEY NO. 5782

Smooth Sheet 1

Boat Sheet 1

Sounding Records 11 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Filed in Vol. 1

Landmarks for Charts (Form 567) Yes

Statistics Filed in D.R.

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) See T 6284

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

Remarks _____

GEOGRAPHIC NAMES
FLORIDA

Date. May 23, 1935

Survey No. H 5782

Chart No. 184

Diagram No. 184

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>St. Andrew</u>	Same			
	<u>Buena Vista Point</u>	"			
	<u>Panama City</u> ✓	"			140
	<u>Massalima Bayou</u> ✓	-----			120
	<u>Watson Bayou</u> ✓	Same			140
	<u>Millville</u>	"			
	<u>(Martin Bayou)</u> <u>Gainers Bayou</u> ✓	<i>Local name preferred</i> <u>Gainers Bayou</u> <i>See 74284</i>	See Topo. D.R.		120
	<u>Bay Harbor</u>	Same			140
	<u>Town Point</u>	"			
	<u>Bunker Point</u>	"			
	<u>Red Fish Point</u>	<u>Redfish Point</u>			
	<u>Davis Point</u> ✓	"			120
	<u>Snack Bayou</u> ✓	Snack B			120
	<u>Sheephead Bayou</u> ✓	-----			120
	<u>Freshwater Bayou</u> ✓	-----			120
	<u>Palmetto Point</u>	Same			
	<u>Ferry Point</u>	"			
	<u>Parker</u>	"			
	<u>Parker Bayou</u> ✓		See Topo. D.R.		120
	<u>Pitts Bayou</u> ✓		"		120
	<u>Long Point</u> ✓	Same			120
	<u>Pearl Bayou</u> ✓	"		APPROVED NAMES UNDERLINED IN RED <i>H.L. Flame</i>	140

RCE

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 3, 1935.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
11 volumes of sounding records for


HYDROGRAPHIC SHEET 5782

Locality Long Point to Davis Point, St. Andrew Bay, Florida

Chief of Party: W. D. Patterson in 1935
Plane of reference is mean low water reading
2.4 ft. on tide staff at Parker
4.5 ft. below B.M. 1
-0.1 ft. on tide staff at Panama City
5.8 ft. below B. M. 2 (USED)

Height of mean high water above plane of reference is 1.4 feet
at Parker; 1.3 feet at Panama City.

Condition of records satisfactory except as noted below: When tide was
below datum reducers were entered with a minus (-) sign, instead of
a plus (+) sign as called for in Special Publication No. 143,
paragraph 134.


Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5782 (1935) - FIELD NO. 3

Long Point to Davis Point, St. Andrew Bay, Florida
Surveyed in 1935
Instructions dated November 30, 1934 (W. D. Patterson)

Hand Lead and Pole Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - W. D. Patterson.
Surveyed by - G. E. Morris, Jr.
Protracted by - J. C. McIlwaine.
Soundings penciled by - C. R. Smith.
Verified and Inked by - S. Rosen, G. H. Everett and M. Silverberg.

1. Condition of Records.

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

- a. The tide reducers were entered with a minus (-) sign instead of a plus (+) sign when the tide was below the plane of reference. (Par. 134).
- b. A number of topographic details such as piers and piles were not shown on the smooth sheet. These were 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 is an excellent survey and satisfies the instructions for the project in every respect except as noted in paragraph 9 of this review.

3. Sounding Line Crossings.

Agreement of sounding line crossings is satisfactory.

4. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn including portions of the low water curve.

5. Junctions with Contemporary Surveys.

- a. The junction on the southeast with H-5781 (1935) is satisfactory.

- b. The junction on the west and southwest with H-5783 (1935) is satisfactory except that a 16 foot sounding on the present survey in lat. $30^{\circ} 08.8'$, long. $84^{\circ} 41.6'$ falls almost directly on a 23 on H-5783 (1935). The sounding may be 1 fm. too shoal but as a possible shoal is indicated here by an undeveloped 18 about 130 m. westward of the 16 on H-5783 (1935), it is considered advisable to retain the 16.

6. Comparison with Prior Surveys.

- a. H-514 (1855), H-1374b (1877) and H-1375 (1877).

Soundings of the above surveys are generally in close agreement with those of the present survey. Several shoal areas with least depths varying 1 to 2 feet shoaler than those on the present survey are shown on the above surveys; however, these areas are all well developed on H-5782 (1935), which developments should supersede the old surveys for charting purposes.

7. Comparison with Chart No. 184 (Corrected to June 1, 1935).

- a. Hydrography.

Soundings shown on the chart originate with surveys discussed in previous paragraphs of this review and several U. S. Army Engineers' surveys of 1931 (Bps. 24853 and 24854) which cover the area to the westward of long. $85^{\circ} 37'$. Soundings are in good agreement with those of the present survey but should be superseded by the more detailed development on H-5782 (1935) for charting purposes.

- b. Fixed Aids to Navigation.

- (1) Charted beacons are located on the present survey in practically the same positions as charted.
- (2) At the entrance to Massalina Bayou, three beacons were located on the present survey which are not shown on the small scale chart (1 to 80,000). In this connection, L H N to M No. 37 (1935) which is subsequent to the present survey reports the establishment of two additional beacons on August 29: one in lat. $30^{\circ} 09.0'$, long. $85^{\circ} 39.7'$ which agrees closely in position with a pile shown on the present survey; the other in lat. $30^{\circ} 08.6'$, long. $85^{\circ} 39.5'$ which falls in depths of about 6 feet and marks the outer limits of a shoal shown here on the present survey.

8. Field Plotting.

Field protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

- a. Attention is directed to the desirability of completely surveying Martin Bayou which is not covered on the present survey. Although only 1 foot at M. L. W. may be carried into this bayou at the entrance, H-1375 (1877), which covers a small portion of the bayou, shows numerous depths of 13 to 16 feet in the general vicinity of lat. 30° 08.2', long. 85° 36.6'.
- b. When it is considered feasible to execute the above work, the 16 foot sounding discussed in paragraph 5b of this review should be investigated and a definite recommendation made in regard to its retention on the chart.

10. Superseding Previous Surveys.

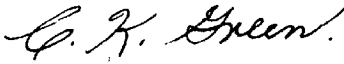
Within the area covered, H-5782 (1935) supersedes the following surveys for charting purposes:

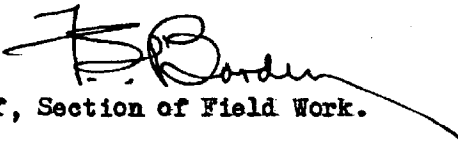
H- 514 (1855) in part.
H-1374b (1877) " "
H-1375 (1877) " "

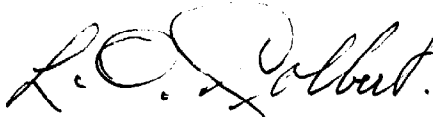
11. Reviewed by - Harold W. Murray, September 17, 1935.


Inspected by - A. L. Shalowitz.

Examined and approved:


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


Chief, Section of Field Work.


Chief, Division of Charts.


Chief, Division of H. & T.

Applied to Chart 1263 - March 1938 - H.A.B.

Applied to Chart 489 Feb. 18, 1943 g.H.S.

Applied to chart 868 Sept 1946 W.A.B.
" " " 869 Oct 1946 g.H.S.