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Form 587 Ed. Dec., 1930

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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#### 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. 1

REGISTER NO. 5780 State Florida East General locality Str Andrew Bay Locality Bast Pay, Wetappo River to Richard Bayou Scale 1/10:000 Date of survey Jan. - Feb. , 19 35 Vessel Field Party No. 5 Chief of Party Wm. D. Patterson Surveyed by George E. Morris, Jr. Protracted by J. C. McIlwaine Soundings penciled by Charles R. Smith Soundings in fathousk feet Plane of reference MaLaWa Subdivision of wire dragged areas by ..... Inked by John W. Parsons Verified by Jahn W. Parsons Instructions dated November 30 1934

U. S. GOYERNMENT PRINTING OFFICE: 1851

Remarks:

#### DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. (Field) 1

ST. ANDREW BAY, EAST BAY,

WETAPPO RIVER TO RICHARD BAYOU.

Project HT-195, Wm. D. Patterson, Chief of Party.

DATE OF INSTRUCTIONS:

Director's Instructions 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 deeper parts of the bay from a small launch with the phosphor 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 marked in fathoms and feet.

#### DISCREPANCIES:

The sounding on position 18 h, latitude 30° 01'4, longitude 85° 27'.3 was recorded as 1 fathom 2 feet. It is believed that the leadsman called it wrongly and that it should be 2 fathoms 2 feet. It is recommended that that change be made.

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The soundings from position 56 F to the second sounding after position 57 F latitude 30° 02'.8, longitude 85° 26'.3 fail to check the soundings on cross lines by 2 feet. It is recommended that these soundings be rejected and the shoaler depths be charted.

#### DANGERS:

The shoal water near shore and in the bayous are strewn with fallen trees and sunken logs.

In general shoals make well out from the points of land.

The beacons west of longitude  $85^{\circ}$  27' are not set at the outer edges of the shoal points. For that reason, vessels should not pass too close to the beacons.

The deepest water is 580 meters east of Beacon 57.

The deepest water is 400 meters west of and 350 meters south of Beacon 4.

The deepest water is 100 meters north of Beacon 55.

The deepest water is 300 meters south of Beacon 2.

There are several small oyster mounds between latitude 30° 01' and 30° 03' and longitude 85° 25'.5 and 85° 28'. These mounds rise as much as four feet from the general depth. They are small in size and according to local oystermen are continually shifting in location caused, no doubt, by the tonging activities of the oystermen. The oystermen generally have them marked by small stakes. It is understood that the U. S. Engineers will keep the channel clear.

#### CHANNELS:

The main intracoastal waterway passes thru this bay. A dredged channel is maintained from the canal entrance at the Wetappo River to longitude 85° 26°. This channel is very narrow and has a controlling depth of T-feet. It is well marked by black day beacons numbered from 1 to 35 (odd numbers) inclusive except 13 which is missing. These beacons are 115 feet to the westward and southward of the center of the channel. Beacons 1 and 11 have arrows pointing to the center of the channel marked "Center of channel 115 ft."

The channel is not dredged west of beacon 35, but it is marked with black day beacons to latitude 30° 01'.8 numbered 37 to 53 (odd numbers) inclusive. These beacons are to the eastward of the center of the channel and 53 has an arrow marked "Center of channel 115 ft." pointing towards the center of the channel. The least depth in this part of the channel is 7-feet, latitude 30° 02'.8, longitude 85° 26'.0. (Second sounding before position 169C, 7 feet; position 46K, 7.5 feet; third sounding after position 78K, 7 feet; all soundings between position's 80K and 81K, 7 feet).

There are several small oyster mounds or bars in this area. There are two, one on either side of the channel, just north of beacon 49. The least depth on them is 5-feet.

See "Dangers" above.

A narrow channel near the east side of Harrison Bayou (Sandy Creek) with a controlling depth of  $3\frac{1}{2}$  feet (the sounding before position 127 T) latitude  $30^{\circ}$  03'.7, longitude  $85^{\circ}$  26'.1, is marked by brush stakes. Any boat that can enter the channel can continue up Sandy Creek to the highway bridge, approximately 3 miles. This is a good fishing ground.

#### ANCHORAGES:

The small bayou south of Bellisle (latitude 30  $^{\circ}$ Ol'.9, longitude  $85^{\circ}$  30'.0 ) is used as an anchorage by small fishing schooners. The controlling depth is 4-feet.

Any where in the bay except Sand River (Horseshoe Bayou) which contains too many sunken logs is suitable for anhorage.

COMPARISON WITH PREVIOUS SURVEYS:

A close check of the charted depths in this area was made as the survey progressed.

#### OYSTERS:

A special effort was made to locate the oyster beds in the area covered by this sheet. The beds are so scattered and of such limited size that it was only by observing the local oystermen that they could be found. The beds are in the area between latitude 30° 01'.0 and 30° 03'.3 and longitude 85° 25'.5 and 85° 29'.0. None of the beds are more than a few hundred square feet in area. The location of them are continually changing as the oystermen completely remove them in fishing them.

The local oystermen report that since the intracoastal waterway was dredged, the fresh water is rapidly killing off the oysters. They believe that only a cut thru to the salt water of the Gulf from near Farmdale Bayou will prevent the complete extermination of the oysters.

#### GEOGRAPHIC NAMES:

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

#### TIDES:

Portable automatic tide gages were maintained at Farm-dale and the south end of the Wetappo River. Tide reducers were obtained from the Wetappo gage for the area north and east of latitude 30° 02.'3 and from the Farmdale gage for the rest of the area.

The mean low water datum of 2.9 on the Farmdale staff was obtained from a series beginning December 17, 1934 and ending February 21, 1935.

The mean low water datum of the Wetappo staff was 1.8, obtained from a series beginning January 9, 1935 and ending February 21, 1935.

STATISTICS: Day Letter		Color	No. of soundings	No. of positions	Statute miles of soundings	Volumes
A	1/12/35	Red	1059	179	30.4	1
B	1/14	11	1101	209	30.3	1 & 2
č	1/15	**	966	183	24.7	2
Ď.	ī/ī6	11	1187	213	30.5	2 & 3
T.	ī/ī7	11	1110	199	29.4	3 & 4
· E F	ī/īs	11	5 <b>74</b>	107	13.2	4
Ğ	1/21	11	675	126	16.7	4
Ĥ	1/24	11	873	<b>15</b> 8	22.1	4 & 5
H J	1/25	11	676	133	15.7	5
K	1/28	11	899	171	22 <b>.4</b>	5 & 6
Ĺ	1/29	18	· 68 <b>5</b>	152	12.8	6
M	1/30	n	533	124	11.7	6 & 7
N	1/31	11	704	98	7.8	7
P	2/4/35	n	714	137	17.0	7
Q	2'/5'	11	701	145	15.4	7 & 8
Ř	2/6	11	967	159	17.3	8
S	2/7	11	719	129	14.5	8 & 9
T	2′/8	11	662	129	14.1	9
U	2/13	11	345	6 <b>4</b>	7 <b>. 7</b>	9
γ	2/18	11	244	47	4.9	10
Ŵ	2/19	Ħ	953	138	14.0	10
X	2 <b>/2</b> 0	Ħ	1017	151	19.3	10 & 11
<del></del>		Totals	17364	3151	391.9	

Area 8.0 Square Miles.

Respectfully submitted,

George E. Morris, Jr.,

Lieutenant (j.g.)

Approved and forwarded;

D. Vatterson. Wm. D.Patterson, Lieutenant, Chief of Field Party No. 5

## Field Records Section (Charts)

# HYDROGRAPHIC SHEET NO. 57.80

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

Number of positions on sheet	.31.5.1			
Number of positions checked	.187.			
Number of positions revised	30			
Number of soundings recorded	17,364			
Number of soundings revised	./4			
Number of signals erroneously				
plotted or transferred	6			

Date: 7/30/35

Verification by J.W. Parsons

Review by H.W. Muvray

Verification Corrections by H.W.M

## HYDROGRAPHIC SURVEY NO. 5780

Smooth Sheet
Boat Sheet
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 6280
Special Chart for Lighthouse Service None Recod (Circular Nov. 30,1933)
Remarks

GEOGRAPHIC	<b>NAMES</b>
AT TOO TO	

Date. May 23, 1935

Survey No	H 5780
Chart No	
Diagram No	TO#

Approved by the Division of Geographic Names, Department of Interior.  $\stackrel{\textstyle \star}{\times}$  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
	Richard Bayou		See Topo.		
	Sand River (Horseshoe Bayou)	Sand River	**		
	(Sandy Creek) Harrison Bayou	Harrison Bayou	*	"Crook anepte	I hu
	Wetappo Creek	Wetappo River	See Mana	authority of K.T.	A.
	Bull Bayou		See Topo.	-	المرتبيد
	Allenton	Seme			
	Farmdale	17			
	Bellisle	म स्थार	See Topo.		
	Farmdale Bayou	Maddox Bayou	D.R.		
		East Bayl			
		1			•
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					<u> </u>
		APPROVED NAMES UNDERLINED IN RED			
		H. L. Flemen			
		:			

## Report on H-5780

The records are complete and conform to the requirements of the general instructions evaluated in the nevium Hum.

The done fathom curve is the only curve that can be completely drawn within the limits of this sheet.

A considerable amount of extra work was required on this sheet due to the field man not using spacing dividers to plot the soundings

At the north end of Sandy Creek the shore line did not check with the Air Photo. So it was changed to conform with it. This difference caused the signals, How, Are, Bat, Car, Fig and Zag to be moved to To 20 meters south.

Discussed in Rev. IPI Xum.

The junction with the adjacent sheet is satisfactory.

The delineation of the depth curves by the field Plotter was satisfactory, but & toohard a pencil was used.

John W. Parsons

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

May 29, 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 5780

Locality Wetappo River to Richard Bayou, Florida

Chief of Party: W. D. Patterson in 1935
Plane of reference is mean low water reading
1.8 ft. on tide staff at Wetappo River
3.6 ft. below B.M. 1

2.9 ft. on tide staff at Farmdale

3.4 ft. below B. M. 1

Height of mean high water above plane of reference is 1.4 feet at Wetappo River; 1.6 feet at Farmdale.

4 -

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE

#### Section of Field Records

#### REVIEW OF HYDROGRAPHIC SURVEY NO. 5780 (1935) - FIELD NO. 1

Wetappo Creek to Richard Bayou, East 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 - J. W. Parsons.

#### 1. Condition of Records.

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

a. The shoreline and accompanying signals: Fig, Cur, Bat, How and Zag in Sandy Creek (northward of lat. 30° 04') originating with the Graphic Control survey, T-6280 (1935) differed by 10 to 20 m. in a north-south direction from that shown on the Air Photo Compilation, T-5515 (1934). The smooth sheet was changed to agree with the Air Photo Compilation, as recommended in the D. R. of T-6280 (1935), page 4. These changes caused similar differences in the plotted field hydrography, but in view of the uniform character of the bottom and comparative unimportance of the area, no changes were made in the hydrography.

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

#### 2. Compliance with Instructions for the Project.

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

#### 3. Sounding Line Crossings.

Sounding line crossings are satisfactory. Several discrepancies noted by the field party have been disposed of in the Descriptive Report (page 1.). In addition, the 16 foot soundings on line 131 to 132B (red) in lat. 30° 01.7', long. 85° 28.4' which fall in depths of about  $10\frac{1}{2}$  feet are apparently 1 fathom too deep. The 16's have been retained on the smooth sheet but should not be used in charting.

#### 4. Depth Curves.

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

#### 5. Junctions with Contemporary Surveys.

The junction on the west at the outlet of East Bay with H-5781 (1935) is satisfactory.

#### 6. Comparison with Prior Surveys.

#### a. H-1374b (1877).

Soundings of this sparsely developed 1 to 20,000 scale survey are generally in good agreement with the present survey. However, discrepancies of 1 to 5 feet occur in several small areas with depths on the present survey being deeper in some cases and shoeler in others. Such discrepancies are primarily due to incorrect spacing of soundings on the old survey and not to changes in bottom. A number of shoal spots (usually oyster mounds) located on the 1877 survey are also indicated on the present survey by similar depths or depths not differing by more than 1 or 2 feet. In view of the close development on the present survey there is no necessity for any retention of the 1877 shoal spots which should be entirely superseded by H-5780 (1935).

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

#### a. Hydrography.

Soundings shown on the chart originate with surveys discussed in preceding paragraphs and need no further consideration in this review.

#### b. Fixed Aids to Navigation.

- (1) Beacons No. 57, 4, 55 and 2 located on the present survey are in practically the same positions as charted. However, beacons 4 and 2 would be of more value to navigation if they were established further offshore. A photostat of the area has been furnished the L. H. Bureau.
- (2) In the area eastward of long. 85° 27', the numerous day beacons marking the Intracoastal Waterway and located on the present survey are not shown on the chart due to the small scale (1 to 80,000). In this connection, Bn. No. 49 would be more valuable to navigation if it were placed near to the western limit of the 5 foot shoal about 100 m. to the northward.

#### c. Controlling Depth in Channels.

The controlling depth determined on the present survey in the Intracoastal Waterway is 7 feet which is greater than the charted depth of 5 feet as of September, 1934, and which in turn is superseded by 6 feet as of April, 1935 (authority: Chart Letter No. 502 (1935)).

#### 8. Field Plotting.

Field protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual except that numerous soundings were incorrectly spaced with respect to time interval. These were corrected in the office.

#### 9. Additional Field Work Recommended.

This survey is complete and no additional field work is required.

#### 10. Superseding Previous Surveys.

Within the area covered, H-5380 (1935) supersedes the following survey for charting purposes:

H-1374b (1877) in part.

11. Reviewed by - Harold W. Murray, September 14, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green, G. H. Green

Chief, Section of Field Records.

(518) andu Chief, Section of Field Work. chief, Division of Charts.

Chief, Division of H. & T.

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