FE193

Diagram No. 1257-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey Field Examination

Field No. HY-2.5-1-63

Office No. FE-193

LOCALITY

State Florida

General Locality Tampa Bay

Locality Hillsborough River

1963

CHIEF OF PARTY
CDR R.M. Stone

LIBRARY & ARCHIVES

DATE

☆ U.S. GOV. PRINTING OFFICE: 1978-666-172

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.7 1963

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FENO. 7 1963

8000

Diag. Cht. No. 1257-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Hydrographic
Type of Survey Pipe Drag

Field No. HY-2.5-1-63 Office No. F.E. # 7, 1963

LOCALITY

State Florida

General locality Tampa Bay

Locality Hillsborough River

19.63

CHIEF OF PARTY

Raymond M. Stone, CDR, C&GS

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

Ch+ 587

ORM C&GS-537	U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	REGISTER NO.
н	YDROGRAPHIC TITLE SHEET	F.E. No. 7, 1963
	Hydrographic Sheet should be accompanied by this form, as possible, when the sheet is forwarded to the Office.	FIELD NO. HY-2.5-1-63
State	Florida	
General locality	Tampa Bay	
Locality	Hillsborough River	
Scale	1:2,500 / Date of sur	vey May 7 - July 1, 1963
	7 June 1962 - Project No.	
Vessel	HYDROGRAPHER Launch HY-2	
Chief of party	Raymond M. Stone, Commander, C&GS /	
Surveyed by	Clinton D. Upham, ICDR, C&GS Donald G. Popejoy, ITJG, C&GS	
	echo sounder, hand lead, potr Raytheon DE-723	Fathometer #217 and hand lead.
	ed by ship's personnel.	
	ked by ship's personnel.	
	D. Upham, LCDR; D. G. Popejoy, LTJG	/
-		
	der inked by D. G. Popejoy, IT JG	
Soundings in was	Mathild feet at MLW WINDS	
REMARKS:	lescriptive report covers both hydrograp	hy and nine drag /
	specified by instructions for SP-15-62	

Descriptive Report to Accompany HYDROGRAPHIC INVESTIGATION Special Project 15-62 Hydrographic Survey Field No. HY-2.5-1-63 Ship HYDROGRAPHER Scale: 1:2,500

Raymond M. Stone, Commander, C&GS ---- Chief of Party

A. Project:

Special Project 15-62, Hillsborough River, Tampa, Florida; instructions dated June 7, 1962.

B. Area Surveyed:

This survey covers an area of 0.08 square nautical miles in the southern part of the Hillsborough River, Tampa, Florida between latitudes 27 56 35 %. and 27 56 45 %.

The hydrography was accomplished on May 7 and July 1, 1963 and the pipe drag investigation (See para. 0, Miscellaneous) was accomplished on July 1, 1963.

This survey falls within the area of prior survey H-8379 (1:5,000 insert) 1957.

C. Sounding Vessel:

All hydrography was done by the launch HY-2, and is identified by red position numbers and day letters.

D. Sounding Equipment:

A Raytheon DE-723 Fathometer (No. 217) was used for all hydrography, except for a few detached positions for which a lead-line was used. The depth ranges from 3 to 15 feet. Lead-line comparisons were made to determine a combined Fathometer correction. These comparisons indicated a correction of -1.0 Ft. with initial set at 2.0 Ft.

E. Smooth Sheet:

The hydrography was smooth-plotted by ship personnel on a letter size tracing cloth overlay of the boat-sheet, in compliance with instructions.

F. Control:

Hydrography on this sheet was controlled entirely by three-point sextant fixes. Seven topographic signals from H-8379 were recovered, and used in locating four additional signals by conventional hydrographic methods.

G. Shoreline:

The shoreline along the east bank of the river was transferred from Hydrographic Survey H-8379. The shoreline along the west bank of the river shown in red on the smooth sheet was located by the hydrographic party using three point sextant fixes.

Η. Crosslines:

Approximately 9% crosslines were run to check the regular sounding lines. They are in excellent agreement with the regular system of lines.

I. Junctions:

See "J", below.

Comparison With Prior Surveys:

The comparison with prior survey H-8379 indicates a general deepening of approximately 2 to 3 feet in the river channel in the area covered. The soundings at the limits of this survey are also approximately 2 to 3 feet deeper than those of the prior survey. All soundings on this survey are in good agreement with the U. S. Army Corps of Engineers Survey of September, 1960.

Κ. Comparison With the Chart:

This survey was compared with Chart 587 (13th Ed., Dec. 17/62). In view of the fact that a closely knit system of sounding lines and subsequent pipe drag (See Sect. "O", this report) failed to verify the existence of the 5 Ft. shoal charted at Lat. 27056.7' N, Long. 82027.58' W, it is rec- See ommended that this feature be deleted from the chart.

The charted 9-foot controlling depth of the channel appears accurate in the area covered by this survey.

Adequacy of Survey: L.

This survey is complete and adequate to supergede prior surveys for charting.

Review

Review

Μ. Aids to Navigation:

There are no aids to Navigation within the area of this survey.

N. Statistics:

On this survey there were 74 positions, and 1.8 nautical miles of sounding lines.

O. Miscellaneous:

On July 1, 1963 a pipe drag survey was conducted in the northern portion of the project area for the purpose of verifying or disproving the existence of the 5 Ft. sounding charted at Lat. 27°56.7' N., Long. 82°27.58' W., which had been added to Hydrographic Survey H-8379 by verifiers in the Washington Office.

Pipe drag equipment consisted of a 27 ft. section of 3/4 inch G.I. pipe supported at each end by uprights (3/16" stainless steel cable) secured to conventional intermediate buoys. Towline consisted of 5/16" diameter stainless steel cable. Two 14 lb. sounding leads were clamped to the top and bottom of the pipe at each end with plumbers tape to provide the necessary weight.

The pipe drag was towed by a single launch at dead slow speed. Lift measurements taken in the usual manner during each drag strip indicated no lift. The distance from the anglemen, at the stem of the launch, to the center of the drag when underway was 31 Ft.. Control was the same as outlined in section "F", this report. The fathometer was operated continuously during pipe drag operations.

The smooth sheet was plotted on a letter size tracing cloth overlay as in section "E", this report. The following color code was used to designate the effective drag depth in the various areas:

RED - 8 Ft. GREEN - 72 Ft. BLUE - 7 Ft.

The area of the charted 5 Ft. was swept to an effective depth of $7\frac{1}{2}$ Ft.. The majority of the remaining area was swept to a depth of 8 Ft. with one drag strip along the easterly bank of the river swept to an effective depth of 7 Ft.

Respectfully submitted:

Donald G. Popejoy,

LTJG, USC&GS

Approved and forwarded:

Mandaer & Randaer

William E. Randall,

CDR, USC&GS

TIDE NOTE

Hydrographic and Pipe Drag Survey (Field No. HY-2.5-1-63) Special Project 15-62 Hillsborough River, Tampa, Florida

Tide corrections originated from inferred hourly heights furnished by Marine Data Division. It is presumed that the inferred values are based on observations at the St. Petersburg tide station as specified in the project instructions.

An abstract of tide corrections is appended to this report.

LIST OF GEOGRAPHIC NAMES

Hydrographic and Pipe Drag Survey
(Field No. HY-2.5-1-63)
Special Project 15-62
Hillsborough River, Tampa, Florida

Tampa

West Tampa

Hillsborough River

ABSTRACT OF TIDE CORRECTIONS

Hydrographic and Pipe Drag Survey
(Field No. HY-2.5-1-63)
Special Project 15-62
Hillsborough River, Tampa, Florida

MAY 7, 1963

Time (75° W. Time Mer.)	Correction (Ft)
From 1200 to 1400	-1.6
" to 1443 /	-1.4
to 1516	-1.2/
to 1543	-1.0 (
to 1612 /	-0.8
to 1640 (-0.6

JULY 1, 1963

From 0819 to	0910 /	-1.4
	1230 /	-1. 6
to	1319	-1.47
to	1356	-1.2/
to	1434	-1.0
to	1512	-0.8
to	1546	-0.6
to	1627	-0.4
to end	of day	-0.2

LIST OF STATIONS ON SPECIAL PROJECT 15-62 HYDROGRAPHIC SURVEY (HY-2.5-1-63)

Name use	ed in	hydrographic	survey:		Origin	of Stations:
		AZO		_	Н	-8379
		BIG		-		n
		מטם		-		IT
		CUE		-		Ħ
		FUN		-		n ·
		GIN		-		11
		GAM		_		II
		ICE		-	HY-2.	5-1-63*
		PIE		-		rı
		RUM		_		11
		BED				H

^{*} See page 3, Sounding Volume 1 of 1.

APPROVAL

Field work and processing of records for this survey were performed under the supervision of Commander Raymond M. Stone prior to my assuming command on September 27, 1963.

The records and smooth sheets have been reviewed, and are approved.

This survey is complete and adequate and no additional field work is recommended.

William E. Randall,

Commander, Coast & Geodetic Survey

ellian & Randall

Commanding Ship HYDROGRAPHER

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 9, 1964

Nautical Chart Division: R. H. Carstens

Plane of reference approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET F. E. No. 7 (1963)

Locality Hillsborough River Tampa, Florida

Chief of Party: R. M. Stone (1963)

Plane of reference is mean low water

ft. on tide staff at

ft. below B. M.

Height of mean high water above plane of reference at the working grounds is 2.0 feet.

Condition of records satisfactory except as noted below:

f. M. Symons Chief, Mides and Currents Branch FORM C&GS-946 (REV. 3-1-64) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. F.E.No.7-1963

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.									
RECORD DESCRIPTION AMO		UNT	RECORD DESCRIPTION		AMOUNT				
SMOOTH SHEET					BOATS				
DESCRIPTIVE RE	PORT		1		enclosed			rets	2
DESCRIPTION	DEPTH RECORDS	HORIZ. CO		PRINT	routs	TAPE ROLLS	PUNCHE	CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	3								
CAHIERS									
VOLUMES	2								
BOXES									
T-SHEET PRINTS	(List)								
SPECIAL REPORT	TS (List)		-						-
	The following st					TIVITIES artographer's repo	rt on the s	survey	
						АМО	UNTS		
PROCESSING ACTIVITY			RE- ICATION	VERIFICATION	REVIÉW		TQTALS		
POSITIONS ON SI	HEET								103
POSITIONS CHECKED				85					
POSITIONS REVISED									
DEPTH SOUNDINGS REVISED				1					
DEPTH SOUNDINGS ERRONEOUSLY SPACED				1					
SIGNALS ERRON	EOUSLY PLOTTED	OR TRANSF	ERRED						
						TIME (MA	NHOURS))	
TOPOGRAP	HIC DETAILS								
JUNCTIONS									
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				1/2 hr.					
SPECIAL A	DJUSTMENTS								
ALL OTHE	R WORK					91/2 hr.	4	hrs.	
	TOTALS	••				10 hrs.		hrs.	
PRE-VERIFICATI	ON BY					BEGINNING DATE		ENDING	DATE
VERIFICATION B	Dele E	Wis	lbr	ook		BEGINNING DATE	7	ENDING	DATE /10/67
REVIEW BY	Dale E	Me	thro	Topo		10/12/67 ENDING DATE			13/67

REVIEW
Field Examination No. 7, 1963
Hydrographic and Pipe Drag
Investigation
Hillsborough River
Tampa, Florida

- 1. This field examination was made in compliance with the instructions for Special Project 15-62, dated June 7, 1962.
- 2. The purpose of the investigation was to verify or disprove a 5-ft. sounding on a possible postruction shown on H-8379 (1:10,000) 1957 in Latitude 27°56'.70, Longitude 82°27'.58, on the east side of the river channel.
- 3. The results of the investigation have been smooth plotted on two tracing cloth sheets enclosed in the Descriptive Report. One sheet shows the depths on sounding lines run during the investigation, and the other shows the area and depths covered by a 27-ft. long pipe drag, utilized to aid in the search.
- 4. The vicinity of the obstruction was cleared by the pipe drag to a depth of 7-1/2 ft. at MLW in depths of 10-ft. It is believed, therefore, that the 5-ft. obstruction was either a stray on the fathogram of H-8379 (1957), or was subsequently removed by dredging by the U. S. Corps of Engineers in 1960 (BP-60153), and no longer exists.
- 5. The obstruction is considered adequately disproved. In addition, since dredging and natural changes have occurred in the area since the 1957 survey, the present field examination is considered adequate to supersede the prior survey and the Corps of Engineers survey of 1960(BP-60153) for charting within the common area.
- 6. A comparison with Chart 587, 11th Ed., April 17, 1967, shows that the 5-ft. obstruction has already been correctly deleted from the chart, and that the present charted soundings adequately reflect the results of this field examination.

7. The Descriptive Report adequately covers all other matters pertinent to this investigation. No further discussion is considered necessary.

Reviewed by: Dale E. Westbrook

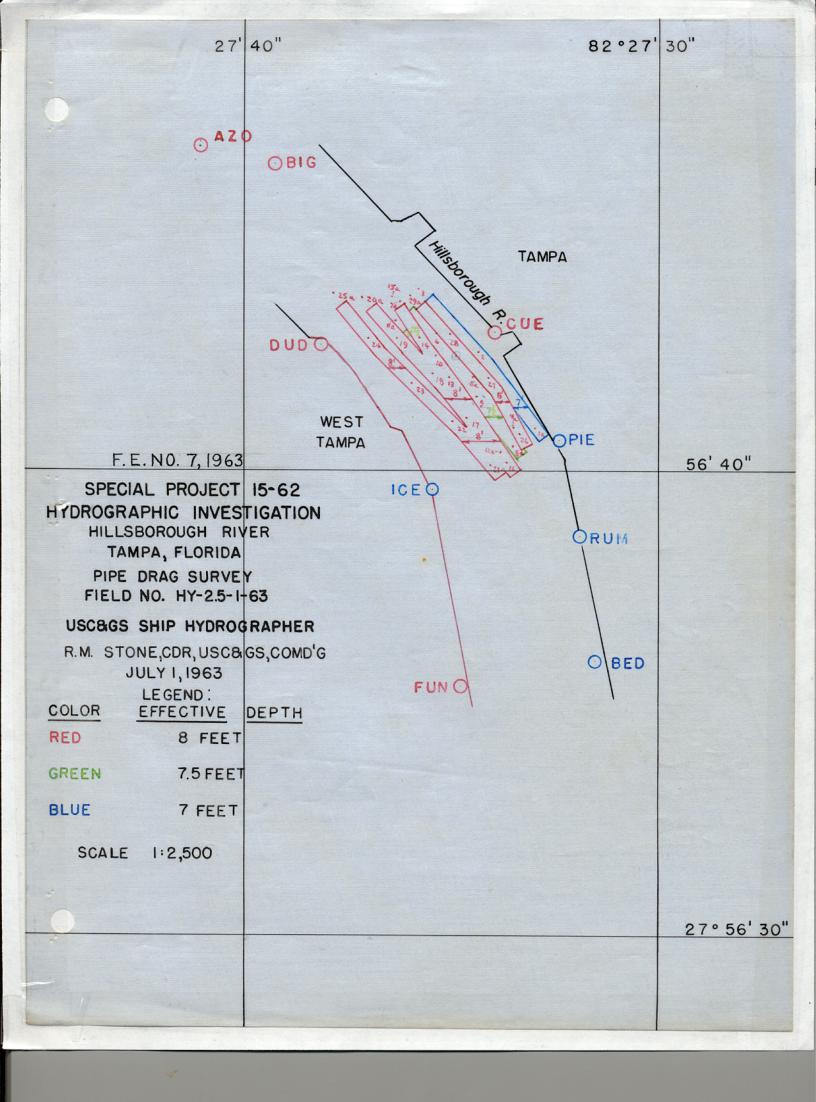
October 13, 1967

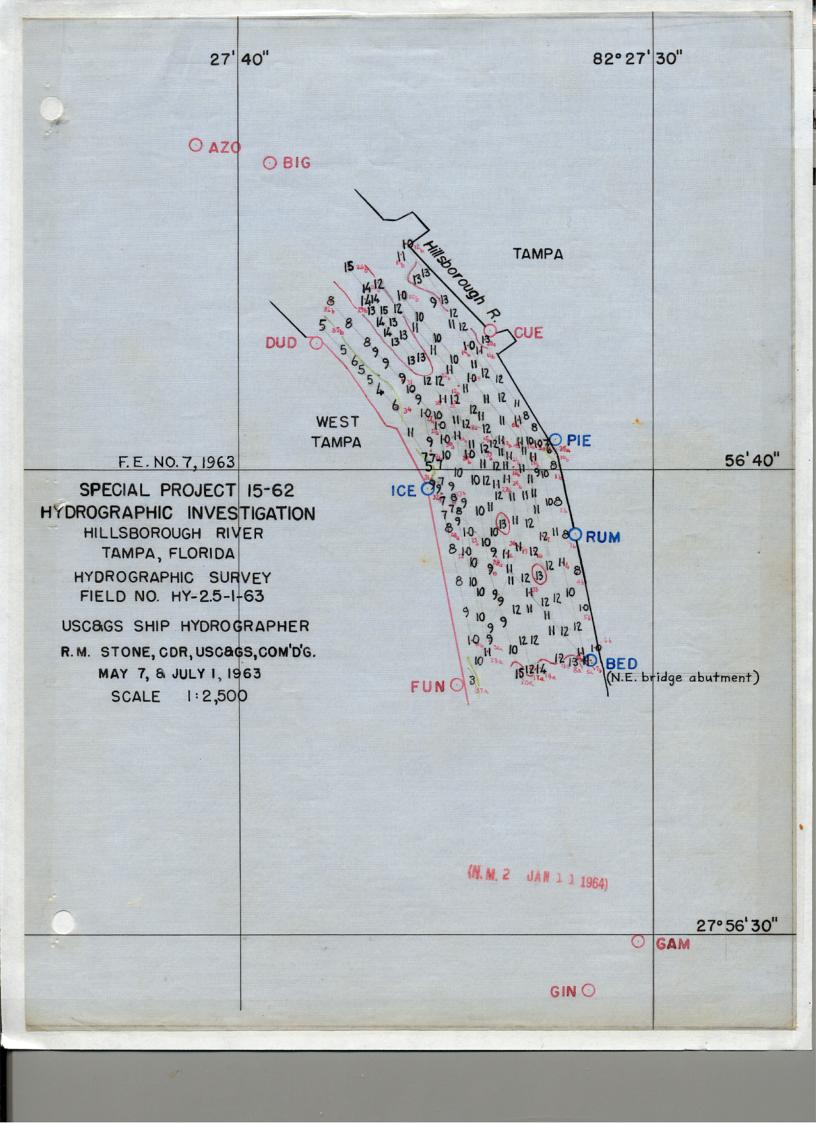
Inspected by: R. H. Carstens

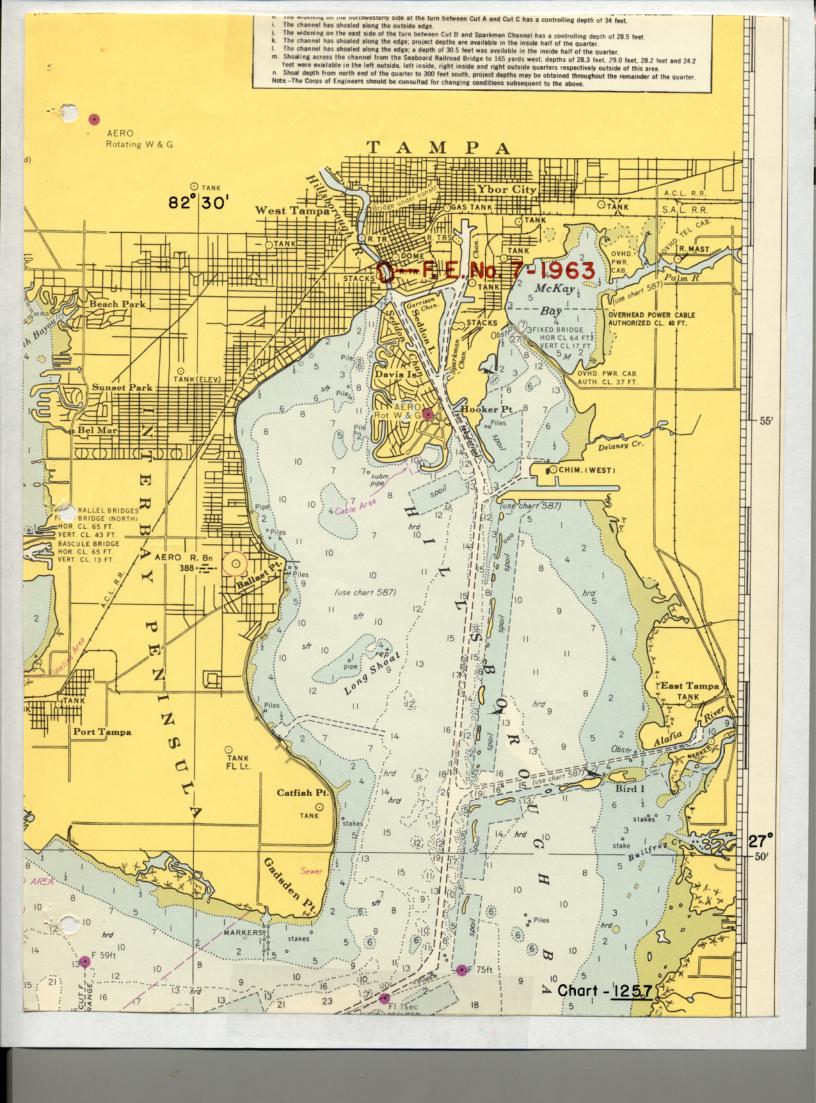
Approved:

John O. Boye

Commander, USESSA Chief, Marine Chart Division







NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. F.E. No. 7-1963

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Revi

CHART	DATE	CARTOGRAPHER	REMARKS
587	3/5/64	J. Weir	Full Part Before After Verification Review Inspection Signed Via
	//		Drawing No.
0587	10/27/76	U. ESchad	Full Part Before After Verification Review Inspection Signed Via
	7,57,70	o Conto	Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
		- 44	Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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