7749

Diag. Cht. No. 1114

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey OFFSHORE HYDROCRAPHIC

Field No. HY-10548 Office No. H-7749

LOCALITY

State FLORIDA

General locality GULF OF MEXICO

Locality NORTHWEST OF TAMPA BAY

1948-1949 -1950

CHIEF OF PARTY

G. L. Anderson

LIBRARY & ARCHIVES

DATE MARCH 28, 1951

B-1870-1 (1)

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.

REGISTER No. H-7749

Field No. HY-10548

State	Florida	~
General locali	tyGulf of Mexico	~
Locality	Northwest of Tampa Bay, Florida	~
Scale	1:100,000 Date of survey 1948-1949-1950 26 September 1946. Supplemental Instructions dated 9 July	10/7
Instructions d	lated 6 October 1948 and 15 March 1949.	1741,
Vessel	Ship HYDROGRAPHER	
G Surveyed by G H	George L. Anderson L. Anderson, C.I. Aslakson, F.G. Johnson, R.C. Rowse, J.D. Th C. Mast, W.N. Martin, F.J. Bryant, N.E. Taylor, L.S. Baker, F. Dunbrook, W.R. Kachel ken by fathometer, graphic recorder, hand-lead, wire	urmond
Fathograms c	caled by Ships Personnel & O.V. Cederstrom (1949 Work thecked by " " & D. Moscopulos (1949 Work	
Protracted by	Andrew Anninos	e 59
Soundings pe	nciled by Andrew Anninos	
REMARKS:	fathoms feet at MLW MILW (and are true depths) Positioning by EPI system	٢

DESCRIPTIVE REPORT

TO ACCOMPANY OFFSHORE HYDROGRAPHIC SURVEY H-7749 (FIELD NO. HY-10548)

Scale 1:100,000

Ship HYDROGRAPHER

George L. Anderson, Commanding

A. PROJECT

This Survey is part of Project No. CS-328. Original instructions are dated 26 September 1946. Supplemental instructions are dated 9 July 1947, 6 October 1948, and 15 March 1949.

B. SURVEY LIMITS AND DATES

The general locality of this survey is offshore northwest of Tampa Bay, Florida.

The survey limits are from latitude 28° 00' N. to 29° 00' N. and from longitude 83° 30' W. to 84° 30' W.

H-7679(48-49)

"It joins with Survey HY-10448 on the west, with future Survey
HY-10248 on the north, with unfinished Survey HY-10648 on the east and par. 4.

With future Survey HY-10848 on the south.

(H-7820-50)

The field work on this survey began on 9 October 1948 and ended 22 December 1948 for the 1948 season. Work was resumed on 12 June 1949 and the survey completed on 25 September 1949.

C. VESSEL AND EQUIPMENT

All hydrography on this survey was accomplished from the Ship HYDROGRAPHER. The majority of soundings were recorded by 808-J type Fathometers Nos. 131-SG and 132-SG. Some soundings were taken in 1948 and early 1949 using the NMC-1 No. 206 during breakdowns or while paper rolls were being changed on the 808. On 8 July 1949, a second 808-J type depth recorder was installed in the pilot house for a standby recorder and the NMC-1 was not used after this date.

Positioning control was entirely by the EPI system.

The normal turning radius of the ship HYDROGRAPHER is from 80 meters to 120 meters depending on the direction and strength of the wind and current

D. TIDE AND CURRENT STATIONS

The Tampa Bay Primary Tide Station at St. Petersburg, Florida was used for the reduction of all soundings. A time correction of minus 2 hours and a range factor of 0.0 feet was used in accordance with Office letters dated 13 January 1949 and 4 October 1949.

Current stations were observed at Buoys 6, 8, and 12 on this sheet. Tidal readings using an 808-J type depth recorder were observed at the same times at Buoy 12. The station at buoy 12 was observed for $46\frac{1}{2}$ hours on 8 and 9 June 1949, the station at buoy 8 for $10\frac{1}{2}$ hours on 12 and 13 June 1949 and the station near buoy 6 for 9 hours on 13 and 14 June 1949.

E. SMOOTH SHEET

The smooth sheet projection with 50 micro-second circles for Stations EPIC and EPID was prepared at the Washington Office in 1948. Additional circles for new station EPICC were drawn on the sheets in April 1949. At this time, errors were found in the original EPIC and EPID circles and these were corrected by orange and green lines respectively.

F. CONTROL STATIONS

The hydrography on this survey was controlled by three EPI shore stations. In 1948, station EPIC was located at Dekle Beach, Florida, latitude 29° 50' 50".8 longitude 83° 37' 01".2. Station EPID was located at Venice, Florida, latitude 27° 04' 53".4 longitude 82° 26' 47".7. In the spring of 1949, station EPIC was dismantled and the equipment moved to station EPICC at Cedar Keys, Florida, latitude 29° 07' 48".0 longitude 83° 03' 07".7 while station EPID at Venice continued in operation during the 1949 Season. The stations were located by inspection and short traverse from planimetric maps of the areas. Station EPIC and EPID were located by Ensign H.F. Dunbrook and Station EPICC by Lt. Comdr. F.J. Bryant.

The length of baseline between EPIC and EPID was approximately 201 statute miles and between EPICC and EPID approximately 144 statute miles. The least angle of intersection on the sheet is 55 degrees.

For control used for location of fixed buoys of Tampa Bay Entrance and Cape St. George, see cahier Geodetic Computations for fixed EPI positions, 1948, transmitted 6 May 1949 and cahier Computation of Fixed Buoys, 1949, transmitted 26 October 1949.

H. SOUNDINGS

Sounding corrections for velocity of sound and instrumental errors were controlled by adequate salinity and temperature serials and by frequent vertical cast comparisons using sounding machine No. H-141 with stranded wire over calibrated sheaves Nos. 403, 389, and 377.

The effective length of stylus arms for 808-J depth recorders was checked at frequent intervals, and the stylus speed was checked approximately once each watch using the revolution count method.

As the northeast corner of the survey covers part of the area of chart 1259 which is printed in feet, the soundings on this portion of the survey were sounded and recorded in feet.

Summaries of the velocity, instrumental and settlement and squat corrections are attached to this report.

I. CONTROL OF HYDROGRAPHY

All hydrography on this survey is controlled by the EPI system using stations EPIC and EPID in 1948 and EPICC and EPID in 1949. Special test buoys were planted near shore and on the working grounds to obtain corrections to the EPI distances received during hydrography. For the explanation of the use of these buoys, see Special Report on EPI Corrections, 1949 sent 26 October 1949.

J. ADEQUACY OF SURVEY

The survey coverage of this offshore area is complete and no excessive gaps or holidays at the junctions with other surveys appear.

Sufficient EPI tests were made at the test buoys to adequately control the sounding lines.

Sufficient development was done in the broken Middle Ground area in the central western portion of the survey to adequately delineate the depth curves. A system of lines along the ridges of these shoals was run with the purpose of further developing these areas and finding the least depths. The least depth found on these shoals was 13 fathoms.

H-7679 (1948-49)

Junctions with Surveys HY-10448 on the west and HY-10648 on the Review, east are excellent.

Par.4.

M. COMPARISON WITH CHART 1114

The E-W line of soundings on Chart 1114 at latitude 28° 08'.4 N. differs from this survey by 6 fathoms at the western end decreasing to 2 fathoms at the eastern end. This same line of soundings extends west-par.5. ward to Survey HY-10448 and there were larger discrepancies on that survey, increasing with the depth. A discrepancy of 6 fathoms exists at latitude 28° 23' N., longitude 84° 20' W. Soundings over the remainder of the flat

areas of the chart agree within 3 fathoms but show evidence of position displacement. The shoal soundings in the broken Middle Ground area sometimes show a displacement discrepancy up to two miles.

Review,

As the positioning and sounding methods are much superior to that used heretofore, it is recommended that this survey entirely supercede the soundings shown on Chart 1114.

N. DANGERS AND SHOALS

Wreck No. 626 shown at latitude 280 12'.7 N. longitude 830 42'.8 W. seelf J was searched for in 1948 and again in 1949. In 1948, a temporary buoy 4 1820 was dropped at the charted location and a system of closely spaced sound-(1950) . ing lines was run over the area to a distance of approximately one mile from the buoy. In 1949, a temporary buoy was again dropped and a clover- See p. 7 leaf system was run over the area for approximately 32 hours but it was Desc. Report not found. A local snapper fisherman said he had found the wreck but it only projected about 6 feet from the bottom and because his fishing lines became fouled on the remains of the wreck, he had not made efforts. par. 5. to return to the spot. Because of these reasons, it is recommended that the wreck be deleted from the chart. Deleted from Chart Drawing) 1114 * and those given on pg.7

During the survey of the Middle Ground area, light shoal peak soundings would sometimes appear on the fathograms, especially at the edges of subteranean cliffs. Although the true bottom could usually be seen at the base of these peaks, three of them were investigated. The most successful was on 6 August 1949. A temporary buoy was dropped at the EPI location and a clove-leaf system run around the buoy. The peak was again found as shown on the fathogram, but a wire sounding showed the full bottom depth and a grappling hook brought up nothing. It is believed that these peak soundings are caused by some light form of marine growth, or possibly in some instances by schools of fish.

R. GEOGRAPHIC NAMES. 854-

The broken shoal area in the west central portion of the sheet has been referred to previously in this report as the Middle Ground. It has been called this by commercial fishermen throughout this area for a number of years. The Captain of the Diane of St. Petersburg said he had been fishing in these waters for 38 years and it had always been called the Middle Ground (not Middle Ground Shoal). Another commercial fisherman from Pensacola said Middle Ground had been the accepted name for this area for 30 years to his knowledge. Commander Goddard, Commanding Officer of the Ship American Mariner, USMS said that he had also heard the area referred to as the Middle Ground. For these reasons, it is recommended that this shoal area be named Middle Ground.

According to these fishermen, at one time the Middle Ground was a very productive area for red snapper and grouper, but the results at present are only fair.

Add' WK. 1950

ADDENDA TO

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY H-7749

Field No. HY-10548

Ship HYDROGRAPHER

George L. Anderson Chief of Party

L. & M. COMPARISON WITH PREVIOUS SURVEYS

Additional work was accomplished in the vicinity of wreck No. 626 on 25 August 1950. This wreck was searched for by using the sonar while running a system of closely spaced sounding lines extending at least $1\frac{1}{2}$ miles from the charted position of the wreck. A total of 2 hours was spent in this vicinity. No indication of the wreck was found.

Review, par. 5

Your attention is invited to:

- 1. The Commanding Officer's letter to the Director on 9/1/50 Subject: Investigation of wrecks, Project CS 328
- 2. The Director's letter dated 9/13/50, reference 22-JR C.L. 685 (1950)

The work accomplished in 1950 has been plotted on the boat sheet for Survey H-7820 (HY-10848) and the tracing accompanying this report was prepared from this work.

J. E. Waugh ICdr, USC&GS

Approved & forwarded:

Goorge L. Anderson Commander, USC&GS Chief of Party

STATISTICS

Vol.	Day	Date	No. of	Statute Miles of Soundings
No.	Letter	19 50	Positions	
50	CC	25 August	27	48.8

Z. TABULATION OF APPLICABLE DATA

FOR USE WITH 1948 SEASON

- 1. 1 Cahier Tidal Data From October to December 1948 Sent 8 April 1949.
- 2. 1 Cahier EPI Correction Data "C" and "D" October to December 1948 Sent 8 April 1949.
- 3. 1 Cahier Geodetic Computations for Fixed EPI Positions 6 October to 21 December 1948 Sent 6 May 1949.
- 4. Report on Calibration of Registering Sheaves Nos. H-403 and H-405 made 17 June 1948 Sent 17 May 1949.
- 5. 1 Cahier Records of Temperatures and Salinities, 1948. Sent 27 May 1949.
- 6. 1 Cahier Fathometer Corrections 1948 Sent 27 May, 1949.

Z.(cont)

TABULATION OF APPLICABLE DATA

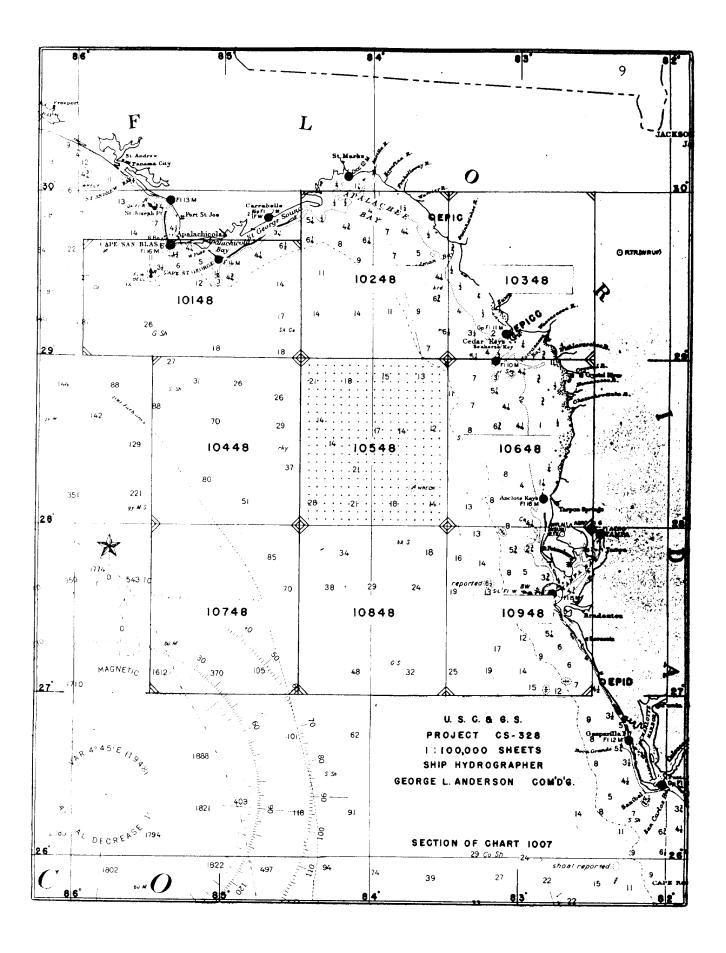
FOR USE WITH 1949 SEASON

- 1. Report on Calibration of Registering Sheave No. 403 Sent 5 May 1949.
- 2. Report on Calibration of Registering Sheaves Nos. 377 and 389 Sent 26 May 1949.
- 3. Report of Settlement and Squat Test, 10 June 1949 Sent 17 August 1949.
- 4. 1 Cahier Special Report on EPI Corrections, 1949 Sent 26 October 1949.
- 5. 1 Cahier Computation of Fixed Buoys, 1949 Sent 26 October 1949.
- 6. 1 Cahier Records of Temperatures and Salinities, 1949 To be forwarded later.
- 7. 1 Cahier Fathometer Corrections, 1949 To be forwarded later.
- 8. 1 Cahier Tidal Observations and Computations at Buoy 8.
 - 1 Cahier Tidal Observations and Computations at Buoy 12.
 - 1 Volume Record of Current Observations at Buoys 8 and 12 All transmitted 16 June 1949.
- 9. 1 Volume Record of Current Observations from 11 to 15 June at Buoys 13, 8, 6, and 5. Transmitted 15 July 1949.

23 November 1949

Submitted

William N. Martin Lieut. Commander, C&GS



STATISTICS FOR HYDROGRAPHIC SURVEY H-____(HY-10548, 1948 & 1949)

Ship HYDROGRAPHER

Project CS-328

Letter	Sim.	No. of	Statute Miles of
Vol. No. Day Date	Comp. T&S	Positions	Sounding Lines
1 & 2 A)_ 9 Oct.		76	126.6
2 & 3 B 10 Oct.		132	213.8
3 & 4 C 11 Oct.		112	184.3
4 & 5 D 12 Oct.		76	123.3
5 E) 20 Oct.		41	65.8
5 F 21 Oct.		12	14.5
5 E 20 Oct. 5 F 21 Oct. 5 & 6 G - 22 Oct. 6 H 24 Oct.		69	100.0
6 H) 24 Oct.		75	122.5
7 J\ 25 Oct.		6	8.8
7 K _1 28 Oct.		37	63.3
7 K 28 Oct. 7 L 29 Oct. 7 & 8 M 10 Nov.		62	66.0
		89	149.0
8 N _ 11 Nov.		4	5.2
8 & 9 P 12 Nov.		109	169.2
9 & 10 Q 17 Nov.		63	104.4
10 & 11 R 18 Nov. 11 S 19 Nov.		123	195.6
		22	33.6
11 <u>T</u> 20 Nov. 11 & 12 U 21 Nov.		16	24.7
,		135	222.8
12 & 13 V 22 Nov.		138	178.4
13 W 23 Nov.		123	136.3
14 & 15 X 24 Nov.		122	152.6
15 & 16 Y 25 Nov.		125	156.9
16 Z 4 Dec.		11	15.0
17 AA 5 Dec. 17 BA 8 Dec.		30	54.7
- استان		34	53.9
		77	141.0
		21	32.9
18 EA 16 Dec. 18 & 19 FA 17 Dec.		27	39.4
19 & 20 GA 18 Dec.		118	194.7
20 & 21 HA 19 Dec.	(29-1948) (14-19	134	203.1
21 JA 21 Dec.			165.2
21 & 22 KA 22 Dec.	(neggon) (neggo	30	27.0 48.1
		<i>)</i> U	40 • T

STATISTICS Page 2

	Vol.	Letter		Sim.		No. of	Statute Miles of
	No.	Day	Date	Comp.	T&S	Positions	Sounding Lines
			1040				
	23	LA	1949			35	55 7
•	23	MA	12 June 13 June			54	55.1 85.3
	23 &	1	29 June	ı	1	70	109.0
	24	PA	7 July	.	_	70 55	86.0
		25 QA)	12 July	1		99	150.2
		26 RA -	13 July	1		134	217.2
	26 &	27 SA	14 July		1	121	178.8
	27 a	TA -	15 July		т.	23	40.3
		28 UA	21 July			89	125.1
		29 VA)	22 July	1	1	132	205.9
		30 WA	23 July	ī		139	194.1
	30	XA)	24 July	_		45	73.0
	31	YA)	25 July	2	1	47 47	68 . 8
		32 ZĀ	26 July	2 2	ī	109	157.7
	32 &		27 July	~		133	213.9
		34 BB	28 July	1	ı	118	187.1
	34	CB	29 July	ī	-	19	32.2
•	34	DB	5 Aug.	2	1	79	119.1
•		36 EB / \	6 Aug.	ĩ	_	118	183.8
	36	FB	7 Aug.	2		115	178.1
		38 GB)-1	8 Aug.	2		136	210.3
	38 &		9 Aug.			140	215.6
	39	JB	10 Aug.			50	73.0
		40 KB	ll Aug.			65	82.0
	40	LB	19 Aug.		1	123	166.0
		42 MB)-1	20 Aug.		_	139	208.0
		43 NB)	21 Aug.	1		135	186.5
		44 PB)-	22 Aug.	2		125	179.5
	44	QB	23 Aug.			32	47.7
		45 RB	24 Aug.	1	1	114	180.5
	45	SB	25 Aug.			6	8.8
	45	TB) 1	3 Sept.			21	31.1
1	45 &	46 UB	4 Sept.			70	75.5
	46	VB Ý	5 Sept.	1	1	103	150.2
•	47	W7B/	6 Sept.			21	30.8
	47	XB —	10 Sept.		•	41	54.2
,	47	YB \	11 Sept.			14	18.0
	48	ZBJ,	21 Sept.			40	62.1
	48	AC V X	24 Sept.	1	l	40	46.3
	48 &	49 BC~V'	25 Sept.			52	49.6
	<i>5</i> 0	cc)-	25 Aug. 1950	•		27	<i>48</i> . <i>8</i>
TOTALS	49 50	74		52	25	-5580	8329.0
1						5607	8377.8
	Total	Square St	tatute Miles		4217.		

TIDE NOTE

Tide Station -- Tampa Bay Primary (St. Petersburg)
Latitude -- 27° 46'
Longitude - 82° 38'
Height of tide staff at MLW - 3.3 feet.
*Time Correction ---- Minus 2 hours
*Height Correction -- 0.0 feet
Hourly heights furnished by Washington Office

*See letters from Washington Office dated 13 January and 4 October 1949.

FATHUMETER VELOCITY CORRECTIONS, 1943

SURVET NOS. NY-10145, HY-10448, HY-20548 PATRON SCALES

SCE-J CORRECTIONS, 820 Pms. per Sec.

5 t	o 30 October	9 Nevenber to	22 Dougoban
Corr.	To Depth	Cory.	To Depth
Fram.	Fms.	Yra.	Fma.
0.3	9.0	0.1	9.5
0.2	13.5	0.2	15.0
0.3	18.5	0.3	19.5
0.4	22.0	0.4	24.5
0.5	25.5	0.5	29.5
0.6	30. 0	0.6	39.5
0.7	<i>3</i> 5.0	0.8	50.0
8.0	41.5	1.0	65.0
1.0	51.0		-, , ,
1.2	61.5		
1.4	65 2 0		

NMC-I CORRECTIONS, 800 Fes. per Sec.

6 4 Corr. FMS. 0.2 0.3 0.4 0.5 0.6 0.7 0.8	to 30 Octobar To Depth Fms. 7.5 9.5 11.5 14.0 16.0 18.0	9 Tovember to Core. Vms. 6.3 0.4 0.5 0.6 0.7 0.3 0.9	22 December To Depth Page. 10.0 12.0 14.0 16.0 19.0 21.0
1.1 1.3 1.4 1.6 1.6 2.0 2.4 2.8 3.0	25.5 27.5 27.5 27.5 37.0 42.0 45.5 49.5 54.0 65.0	1.2 2.4 2.6 2.3 2.2 2.6	29.5 31.0 38.0 40.5 45.0 45.5 54.5 59.0

PATHOMETER - INSTRUMENTAL

GCRRETTIONS, 1948
Abstract of Instrumental Corrections and Sottlement and Sount, Fathomotors 808J No. 1315G & 1325G; NHO-1 No. 206

FATHOM SCALES SURVEYS HY-10148, HY-10448, and HY-10548 .

Fath. No.	Dates 1948	Scalo	Comm. The	To Depth Fns
NMG1-206	1 Sept, 6 Oct 22 Dec.		-0.5 -0.6	31.0 Over 31.0
8 08J-1315 G	6 Oct 13 Nov.	A A B	40.1 0.0 +1.2	31.0 55.0 90.0
80 8J-1 328 0	14 Nov. ~ 22 Dec.	A A B	1.0-4- 0.0 0.1-	31.0 55.0 90.0

FOOT SCALES SURVEYS HY-10148, HY-10648 and HY-10948

Fath. No.	Datos	Scale	Corr Ft.	To Dopth Ft.
8087-137.56	6 Oct 13 For.	A B G D	+0.5 +1.0 +2.0 +2.0	55 90 125 160
80 6J-1 32 5 G	1 Sept., 14 Nov 22 Dec.	A B C D	♣0.5 ←3.0 -3.5 -0.5	55 90 125 160

Comp: FJB Gnacked: FGJ

SCS FATHOMETER VELOCITY CORRECTIONS CORRECTIONS IN FATHOMS To be used between 1 July and 11 Sept. 1949 For depths to 40 Fathoms SURVEY NOS: HY10148; HY10448; HY10548

Corrn	To Depth	•	
Fms	Fas		
0.1	7.5		
0.2	11.5		
0.3	15.5		
0.4	20.5		
0.5	25.5		
0.6	36.5	Comp:	FJB
0.8	40.0	Onecked:	TIRK

808 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FATHOMS
To be used between 20 and 26 Sept. 1949
For depths to 40 Fathoms
SURVEY NOS: HYLO148; HYLO148

0.1	7.5		
0.2	11.5		
0.3	15.5		
0.4	19.5		
0.5	23.5		
0.6	33.5	Comp:	FJB
0.8	40.0	Checked:	WRK

808 FATHOMETER VELOCITY CORRECTIONS
CORRECTIONS IN FATHOMS
To be used between 7 and 30 June 1949
For depths to 106 Fathoms
SURVEY NOS: HYLOL48; HYLOL48; HYLO548

0.1	8.0		
0.2	13.0		
0.3	17.5		
0.4	22.5		-
0.5	28.5	•	
0.6	41.5		
0.8	60.0		
1.0	88.5		
1.2	101.0	Comp:	fjb
1.0	110.0	Checked:	FGJ

MMC-1 FAINCHETER VELOCITY CORRECTIONS IN FAIRCES To be need between 7 and 30 June 1949 For depths to 106 Fms SURVEY NOS. HYLOMAS; HYLOMAS; HYLOMAS

Corrn	To Depth		
Frai	Fixe		
0.2	7.0	•	
0.3	9.0		`
0.4	11.0		
0.5	3.3.0		
0.6	15.5		
0.7	17.5		
0.8	20.0	•	
0.9	22.0	`	
1.0	24.0		
1.1	26.5		
1.2	29.0	* .	
1.3	31.0		
1.4	36.5		
1.6	41.5		
1.8	47.0		
2.0	52.0		
2.2	57.5	5	
2.4	63.0		
2.6	63.5		
2.8	74.5		
3.0	80.5		
3.2	86.5	•	
3.4	92.5		
3.6	93.5		
3.8	NOT O	_	
3-5	102.5	Comp:	ras
4.0	120.0	Chocked:	Man.

SOS PATROMETER VELOCITY CORRECTIONS CORRECTIONS IN FIRST

To be used between 7 and 30 June 1949 For depths to 160 feet SURVEY NOS. HYLOLAS; HYLOCAS

Corpa	To Depth		
Ft	F'&		
0.0	21.5		
0.5	42,0		
1.0	65.0		
1.5	€8.5		
2.0	111.5		
2.5	137.5	Conp:	FJB
3.0	160.0	Checked:	Faj

SCS VATHOMETER VELOCITY CORRECTIONS

CORRECTIONS IN FERT
To be used between 1 July and 11 Supt. 1949 For depths to 160 feet

SURVEY NOS. HY10148; HY10548; HY10648; HY10948

0.0	21.5		
0.5	40.5		
1.0	<i>5</i> 9.5		
1.5	79.5		
2.0	100.5		
2.5	122.5		,
3.0	146.5	Compr	MAD
3.5	160.0	Chrosted:	WAR

8CS FATHCHETER VELOCITY CORRECTIONS

CORRECTIONS IN FRET

To be used botween 20 end 26 Sept. 1949 For depths to 160 feet SURVEY MOS. HY10148; HY10548; HY10948

0. 0	23.5		
0.5	40.5		
1.0	59.0		
1.5	78.0		
2.0	97.5		
2.5	118.0		
3.0	139.0	Comp	FJB
3.5	160.0	Checked:	HRK

PATHOMETER - INSTRUMENTAL

CORRECTIONS, 1949
Abstract of Instrumental Corrections and Sevelementa and Squat, Fathometers SOSI No. 13180 and No. 13286
FATHOM SCALES

SURVEYS HY-10148, HY-10448, and HY-10548

808J Fata. No.	Dates	Scale	Coren.	To.
1325G	26 May - 20 June 1949	All scoles	* For + C.2	Tes
1325G	21 June - 26 Sept. 1949	A A B	4-0-1 0-0 0-0	31. 55 90
13150	21 June - 26 Sept. 1949	A B	0.0 -0.2	55 90

FEST SCALES SURVEYS EY-LOLAS, 10548, 10648 and 10948

808J Fath.	Dates	Scale	Gerra Lt.
1325G	26 Hay - 20 June 1949	E C D	0.0 -2.0 -2.5 0.0
1329G	21 June - 26 Sept. 1949	A B C D	+0.5 +0.5 +1.0 +1.5
130.SQ	21 June - 26 Sept. 1949	A B C D	0.0 +0.5 +0.5 +1.5

Compa Checked: ECR

VALOUISY CORRECTIONS

For Type 808 J Depth Recorders - Velocity of sound 820 fathous per second ROFE: All corrections additive unless otherwise indicated.

SURVEYS: H-5749 (10548); H-7792 (10648); H-7819 (10748); H-7820 (10848); H-7793 (10948); H-7821 (20149).

PERIOD: 9 August through 27 August 1950.

	Peet			Pathons	
	Depth	Corrn.	Dep	th	Corra.
From	To		From	Тo	(0.1)
	21.5	0.0	7.1	11.0	0.2
22.0	39.0	0.5	11.1	15.0	0.3
39.5	56.5	1.0	15.1	19.1	0.4
57.0	75.0	1.5	19.2	23.5	0.5
75.5	94.0	2.0	23.6	28.0	0.6
94.5	114.5	2.5	28.1	33.0	0.7
11.5.0	136.0	3.0	33.1	38.2	0.8
136.5	159.0	3.5	38.3	43.5	0.9
159.5		4.0	43.6	48.5	1.0
		•	48.6	54.0	1.1
			54.1	59.5	1.2
			59.6	65.1	1.3
			65.2	71.5	1.4
	FATTICM:	5	71.6	80.0	1.5
			80.1	87.5	1.6
	Depth	Corrn.	87.6	99.0	1.7
From	To	(0.2)	99.1	114.5	1.8
		•	114.6	160.0	1.9
7.1	15.0	0.2			
15.1	23.5	0.4			
23.6	33.0	0.6		FATHOUS	
33.1	43.5	0.8			
43.6	54.0	1.0	Dept	ක්	Corrn.
54.1	65.1	1.2	From	To	(0.5)
65.2	80.0	1.4			• • •
80.1	99.0	1.6		11.0	0.0
99.2	160.0	1.8	11.1	33.0	0.5
			33.1	59.5	1.0
			59.6	99.0	1.5
			99.1	160.0	2.0

SEASON 1950

SHIP HYDROGRAPHER

G.L. ANDERSON, COMMANDING

		Cour.				Corr.	
From	To	CC	Remerka	From	To	D	Remarks
July 26	July 26			July 26	July 27		
0600	1800	-1.2		0601	1000	··2.2	
July 26	July 27	,	e e e e e	July 27	July 28		
1801	0800	-1.0		2.003.	0300	-2.0	
July 27	July 27			July 28	July 26		
0801	2200	-0.8		0303	2100	-1.B	
July 27	July 28			July 28	July 29	. ,	
2200.	1400	.0.6		2001	1.300	-1.6	
July 28	July 29		· · ·				
1401	0600	-0.4	4				
July 29	July 29				*	5	
0601	1300	-0°S					
Annes O	40 m - 3.0			Aug. 9	Aug. 10	4.	
ing. 9	Ang. 10 0400	-1.2		1300	1700	-2.0	
Aug. 10	Aug. 11	-T 0 %		Aug. 20	sug. li	NO 8	
CAM.	0000	-1.0	$(X_{i+1}, \dots, X_{i+1}) = (X_{i+1}, \dots, X_{i+1})$	1701	1700	-1.8	et.
ang. 13.	aug. 11	-2.00		Mig. 11	Aug. 13		
CCCI	1700	-0.8		1701	2000	-1.6	
Aug. 11	Aug. 17			Aug. 13	Aug. 15		
1701	1200	-1.0		2001	2200	-l.8	
ms & mas				Aug. 15	Aug. 16		
				2201	1000	-2.0	
				Aug. 16	Aug. 16		
				1001	1800	-2.2	
			•	Aug. 16	Aug. 17	;	
				1802	02.00	-2.0	•
				Aug. 17	Aug. 17		
				CICI	0800	-1.8	
				Aug. 17	Aug. 17		•
				0807	3200	-1.6	
				W. y	» ' [a*	
Aug. 23	dag. 26		Ship Ret.	Ang. 23	Aug. 26		
1300	2400	-0.8		1300	2400	-2.1	•
	territor a		due to			- # * - *	
			Hurricano	* /	**	•	· · · · · · · ·

Comp: JFL Chk: EAD

INSTRUMENTAL CORRECTIONS

1950

Abstract of Instrumental Corrections including the correction for Settlement and Squat. - All surveys made in 1950.

FOOT SCALES

Fath. No.	Date	Scales:	A	В	C	D
131 SG	2 - 27 May	Speed: Corrn:	120 - 0.5	RPM and over -0.5	42. 0	44. 0
		Speed: Corrn:		RPM to 119 RPM -1.0		43 5
		Speed: Corrn:	105 - 1.5	RPM and under -1.5	+1. 0	43. 0
	28 May - 20 September	Speed: Corrn:	120 0.0	RPM and over	42. 5	4 4.5
		Speed: Corrn:	106 - 0.5	RPM to 119 RPM 0.0		4 4.0
		Speed: Corrn:		RPM and under -0.5	41. 5	4 3.5
	FA	THOM SCALES				
	2 - 27 May	Correctors Speed: Corrn:		RPM and over	41. 9	4 4.0
		Speed: Corrn:	107 - 0.2	RPM and under -0.8	41. 8	4 3 . 9
		Correctors Speed: Corrn:		speeds	+1. 8	• 3 . 8
		Correctors Speed: Corrn:		Fathoms speeds -1.0	•2. 0	• 3.5
	28 May - 20 September	Correctors Speed: Corrn:		Fathom RPM and over	• 2.4	44. 2
		Speed: Corrn:		RPM and under	42.3	44.2

Fath No.	Date	Scales	A	В	C	D
131 SG	28 May - 20 September	Correctors Speed: Corrn:	to 0.2 F		42. 2	4 4.0
		Correctors Speed: Corrn:	to 0.5 Fa	eds	4 2.0	-44. 0
		FOOT SCALES				
132 SG	2 May - 0231 19 May	Speed: Corrn:	120 RPI -0.5	M and over	0.0	41. 5
		Speed: Corrn:	106 RPI -1.0	M to 119 RI -2.0	PM incl.	•1. 0
		Speed: Corrn:	105 RPM -1.5	and under	-1.0	4 0 . 5
	0232 19 May - 0952 19 May	Speed: Corrn:	120 RMI •1.0	and over	-	-
		Speed: Corrn:	106 RPI •0.5	#7.5 d to 119 RI	PM incl.	-
		Speed: Corrn:	105 RPM 0.0	and under	-	-
	1210 19 May - 20 September	Speed: Corrn:	120 RPN +0.5	and over	+ 0.5	42. 5
		Speed: Corrn:	106 RPN 0.0	f to 119 RF -1.0	PM incl.	• 2.0
		Speed: Corrn:	105 RPM -0.5	and under	-0 . 5	+1. 5

FATHOM SCALE

Fath. No.	Date	Scale	A	В	C	D
132 SG	2 May - 0231 19 May	Correctors Speed: Corrn:		athom and over -1.0	0.0	41. 8
		Speed: Corrn:	107 RPM -0.1	and under	r -0.1	•1. 7
132 SG	1210 19 May 20 September	Correctors Speed: Corrn:	-	athom and over -0.7	• 0 . 2	•1. 7
		Speed: Corrn:	-0.1	and under	r •0.1	41. 6
		Correctors Speed: Corrn:	to 0.2 F All spe -0.2		0.0	41. 6
		Correctors Speed: Corrn:	to 0.5 F All spo 0.0		0.0	41. 5

Approval Sheet

Hydrographic Sheet HY 10548

Hydrographic Sheet No. HY 10548, the sounding records and reports have been examined and are approved.

Attention is invited to the extensive shoal area in the western part of this sheet. In depths of 20 to 22 fathoms, the tops of shoals rise to depths of 13 to 17 fathoms. On a typical sounding line run across the shoal, a series of small peaks will be crossed each of which rise to nearly the same elevation. Occasionally there are indications of some growth extending upward from a peak. Several attempts were made to examine these indications with the lead and grapnel without success.

George L. Anderson,

Commander, USC&GS.,

Commanding Officer, Ship HYDROGRAPHER

ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-7749 (Field No. Hy-10548)

GENERAL

see following page

Iat. 28-13 Long. 83-43

Positions 7 thru 20CC are being submitted on an overlay. This overlay shows additional investigation in the vicinity of wreck no. 62%.

Review,
par. 7c.

DISCREPANCIES

Lat. 28-30 Long. 83-30
Soundings between positions 1 and 6J appear to be deep by about
one fathom.

(recanned fgms., diffs. partially eliminated)
remaining descrepancies unimportant

Hugh L. Proffitt

Cartographer

Norfolk, Va. 23 March 1951

Approved & Forwarded:

Earl U. Heaton

Supervisor, S.E. District.

GEOGRAPHIC NAMES Survey No. H-7749	or the or	S. Word	of local transfer of the local transfer of t	Or local Mode	O. Carde	Mos Monday	N.S. Jak	,
Name on Survey A B	C	D	E	or F	2.0° G	² oru H	S. K	
Florida	(tor	titl	r)					1
Gulf of Mexico								2
Tampa Ray	, h							3
								4
								5
Middle Ground	(666	8.6						6
								7
								8
								9
		KI.		-\ c	. <u> </u>	<u> </u>	LN	10
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H. 7749....

Records accompanying survey:		
Boat sheets; sounding vols50;	wire dr	ag vols:
bomb vols; graphic recorder rolls		
special reports, etc 3 Cabiers, EPI plotti		
ll Sketchbooks, EPI distances; 1 Overlay tracin		
The following statistics will be submitted w rapher's report on the sheet:	ith the	cartog-
Number of positions on sheet	,	5607
Number of positions checked		73
Number of positions revised		3
Number of soundings revised (refers to depth only)		21*
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		NoNE
Topographic details	Time	No. Topo
Junctions	Time	12.hrs
Verification of soundings from graphic record	Time	66
erification by E. HomesTotal time		
Reviewed by A Dins more Time	40	Dete ³ Nov. 1953
* minor changes		
Stieni - 9 his		

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7749

FIELD NO. HY-10548

Florida, Gulf of Mexico, Northwest of Tampa Bay

Project No. CS-328

Surveyed - 1948, 1949 & 1950

Scale 1:100,000

Soundings:

Control:

808 Fathometer NMC-1 Fathometer

E.P.I.

Chief of Party - G.L. Anderson
Surveyed by - G.L. Anderson, C.I. Aslakson, F.G. Johnson
R.C. Rowse, J.D. Thurmond, G.C. Mast, W.N.
Martin, F.J. Bryant, N.E. Taylor, L.S. Baker,
H.F. Dunbrook and W.R. Kachel

Protracted by - A. Anninos
Soundings plotted by - A. Anninos
Verified and inked by - E. Thomas
Reviewed by - T.A. Dinsmore 3 November 1953
Inspected by - R.H. Carstens

1. Shoreline and Control

There is no shoreline within the limits of this offshore survey.

The survey was controlled by Electronic Position Indicator stations established on the west coast of the Florida peninsula. The control is described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in very good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated. The 15-fm. curve has been added to emphasize the configuration of Mid-dle Ground shoal.

An extensive shoal area is revealed in the Western part of the surveyed area. Known as Middle Ground, numerous small peaks and ridges rise from depths of 20-22 fms. to within 13-15 fms. of the surface. Except for the irregularities in Middle Ground shoal, the bottom is relatively smooth and featureless. Depths within the limits of the surveyed area range from 9 to 43 fms.

4. Junctions with Contemporary Surveys

The present survey junctions adequately with H-7820 (1950) on the south and H-7679 (1948-49) on the west. The transfer of junctional soundings on the south is deferred pending the complete verification of H-7820. Project surveys on the north and east have not yet been received in this office.

5. Comparison with Prior Surveys

H-1354 (1875) 1:600,000 H-1771 (1887) 1:40,000 H-2920c (1882-84) 1:200,000 H-3670 (1914) 1:200,000

Soundings on these reconnaissance surveys are from dead-reckoning lines. Differences with present depths are as much as 7 fms. such as the 23-fm. sounding on H-1354 in lat. 28° 08.5', long. 84°18.0', which falls in depths of 30 fms. on the present survey. Differences between prior and present depths are attributed to errors in position of the prior dead-reckoning sounding lines.

The <u>sunken wreck</u> in lat. 28°13', long. 83°43', on H-3670 (1914) has been the subject of intensive searching in 1948, 1949 and 1950 with negative results in all instances. Upon the recommendation of the hydrographer (par. N., Desc. Report), the wreck symbol has been deleted from the charts. The reviewer concurs in the action taken.

6. Comparison with Chart 1114 (Latest print date 10/6/52)

A. Hydrography

The charted hydrography originates entirely with the present survey prior to verification and review. No important differences are noted between the charted and smooth-sheet depths. An uncharted 21-fm. shoal is noted in lat. 28°22.2, long. 84°22.5'.

B. Aids to Navigation

No aids to navigation are charted in this offshore area. No dangers to navigation are revealed by the survey.

7. Condition of Survey

a. The sounding records and Descriptive Report are complete and comprehensive.

b. The smooth sheet was accurately and neatly plotted.
c. The additional work on August 25, 1950 in the vicinity
of the previously charted wreck in lat. 28°13', long. 83°43',
is shown on an overlay tracing enclosed in the Descriptive
Report. Soundings between positions 1-7cc and 20-27 cc have
been plotted on the smooth sheet. The intervening soundings
were not plotted as they fell in an area previously welldeveloped.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work

This is an excellent basic survey of the area covered and no further field work is required.

Examined and approved

H.R. Edmonston / Chief, Nautical Chart Branch

Chief

H. Arnold Karo

Chief, Division of Charts

G.R. Fish

Chief, Section of Hydrography

Earl O. Heaton

Chief, Division of Coastal Surveys

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topographys.

13 April 1951

Division of Charts: R. H. Carstens

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET 7749

Locality N.W. of Tampa Bay, Gulf of Mexico

Chief of Party: G. L. Anderson in 1948-1950 Plane of reference is mean low water, reading 3.3 ft. on tide staff at St. Petersburg 5.5 ft. below B. M. 4 (1925)

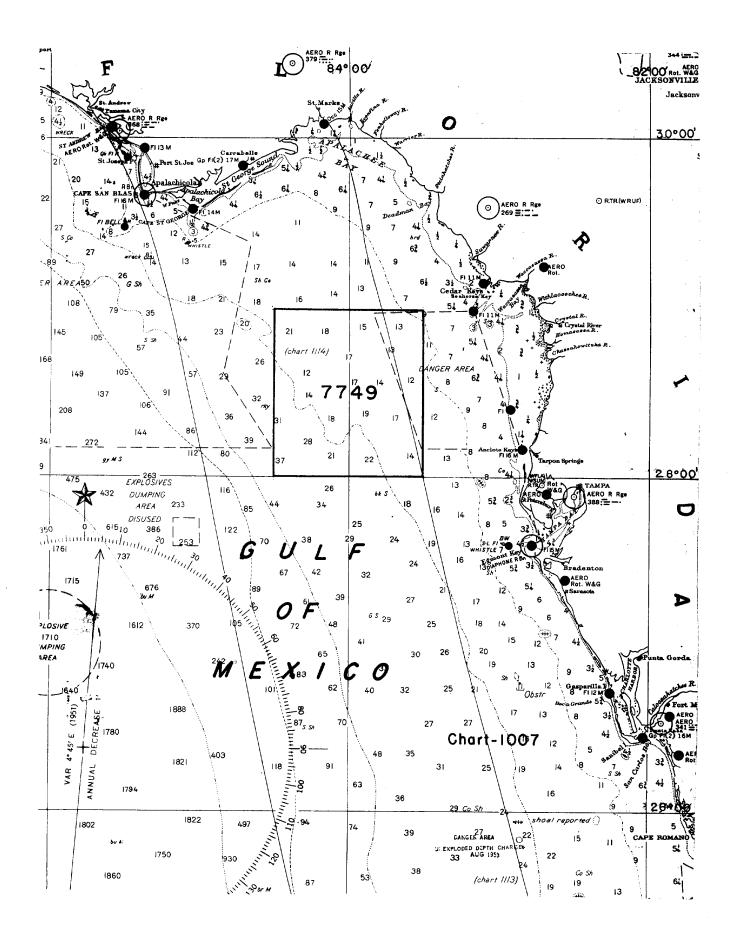
Height of mean high water above plane of reference is 1.5 feet.

NOTE: Tide reducers were verified by using a time correction of -2:00 hours at the working grounds.

Condition of records satisfactory except as noted below:

E. C. Mc Kay

Chief, Division of Tides and Currents.



NAUTICAL CHARTS BRANCH

SURVEY NO. H-7749

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS	
7-23.50	1003	En MiBrogon	Before Verification and Review	Here
		25	cht 1114	
7-16-52	1114	Bothan	Before Verification and Review	:
		0.0	added douth curves	
2-14-55	1114	J. X Eatra	Odded detth curves.	
		Or C		
6/28/55	1003	TEllas Einen	After Verification and Review/hruce	Lt. 1114
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1-21-59	1007	R. K. De Lander	Before After Verification and Review Minu	coffee
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M-2168-

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.