8986

Digg. Cht. No. 901-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. WH-10-3-68#Office No. H-8986

LOCALITY

State Commonwealth of Puerto Rico

General locality South Coast of P.R.

Locality La-Paguera area - Cabo Rojo

to Punta Jorobado

19 68

CHIEF OF PARTY

CDR Wayne L. Mobley, USESSA

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FORM	C&GS-537

U.S. DEPARTMENT OF COMMERCE REGISTER NO. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

H-8986

		FIELD NO.
and the second s	ydrographic Sheet should be accompanied by s possible, when the sheet is forwarded to	y this form,
State	Commonwealth of Puerto Ric	-
General locality	South Coast of P. R.	•
Locality	LaParguera area = Cabo Rej	o to Punta Jorobado
Scale	1:10,000	Date of survey 3/30 thru 4/16/68
Instructions dated 2	4 January 1968 (Revised)	Project No. OPR-423
Vessel	USC&GS Ship WHITING	
Chief of party	CDR Wayne L. Mobley, USESS	A
Surveyed by LT J	. G. Carlen, ENS C. A. Hardt,	ENS C. W. Tignor, ENS R. S. Patwell
Soundings taken by ea	tho sounder, hand lead, pole <u>Ross</u> Di	gital Depth Sounder
	by Data Acquisition System	
	•	
Graphic record checke	d by LTig P. M. Hall. ENS K.	C. Markve, CST W. A. Hill
		C. Markve, CST W. A. Hill Gerber Digital Plotter
Protracted by	N/A	Gerber Digital Plotter Automated plot by <u>Pacific Marine Cen</u> ter
Protracted by	N/A N/A	Gerber Digital Plotter Automated plot by <u>Pacific Marine Cen</u> ter
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Protracted bySoundings penciled by Soundings in	N/A N/A feet at MLW ***********************************	Gerber Digital Plotter Automated plot by Pacific Marine Center

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY

H-3986

WH-10-3-68

1:10,000 Scale

PUERTO RICO - 1968

USC&GS SHIP WHITING

CDR Wayne L. Mobley, USESSA, Commanding

A. PROJECT:

This survey was conducted on Project OPR-423 under the authority of Revised Instructions dated 24 January 1968.

B. AREA SURVEYED:

The area surveyed is off the south coast of Puerto Rico between longitude 67°02°30°W and 67°07°30°W, and from latitude 17°55°N south to the 15 fathom depth curve, approximately at latitude 17°52°N. Survey was accomplished in eight days during the period 30 March 1968 through 16 April 1968.

Junctions are all with contemporary surveys, as follows:

North: WH-10-1-68 (H-8984) and WH-10-2-68 (H-8985)

South: WH-20-1-68 (H-8989)

East: WH-10-4-68 (H-8987)

West: WH-10-5-68 (H-8988)

C. SOUNDING VESSEL:

This survey was accomplished entirely by the WHITING and was plotted in black.

D. SOUNDING EQUIPMENT:

The fathometer used on this survey is the Ross Digital Depth Sounder, S/N USC&GS 601. Corrections were obtained by leadline comparisons and serial temperature observations.

E. SMOOTH SHEET !

The smooth sheet will be plotted by the Pacific Marine Center.

The size of the boat sheet is reduced from standard size to accomedate the WHITING computer-plotter system, having an effective plotting area of 31.4 by 34 inches. The boat sheet was constructed and plotted by the system, and the point of any position is the middle of the left edge of the right-hand digit of the plotted sounding (i.e.)

F. CONTROL:

The control used for this survey was hyperbolic mode Hi-Fix. By using the appropriate navigation program in the computer it was possible to conduct this survey using a system of straight, parallel sounding lines. Among other things, this program accepts Hi-Fix position input and the coordinates of two points on a desired line. It computes the straight line in terms of the hyperbolic arcs, and indicates the ships relation to the line through the use of a left/right steering needle on the bridge.

The Hi-Fix stations were located by traverse methods using electronic distance measuring equipment. Positions are:

MASTER Lat. 17°58*15.89"N - Long. 67°02*44.41"W

SLAVE II Lat. 17°56*25.71"N - Long. 66°57*20.33"W

SLAVE I Lat. 17°56'07.50"N - Long. 67°11'32.85"W

G. SHORELINE:

There is no shoreline on this survey.

H. CROSSLINES:

Crosslines were run to the extent of about %. Agreement is good considering the coral bottom and the irregularities caused by the coral heads.

I. JUNCTIONS:

Junctions with the surveys listed in B on the north, east, and west are good, within one or two feet. However, junction with WH-20-1-68 (H-8989) is difficult to assess. The slope of the bottom is extremely steep, 1300 feet rise in 0.9 mile run or more, and difficulties were experienced obtaining soundings here. The junction of the two surveys along this drop-off appears to be reasonable but an exact comparison is not possible.

Junction With H-8189 appears to be adapted althouse Aumerous rejections and remains had to be made to POR sags in depths

J. COMPARISON WITH PRIOR SURVEYS: of So to Go fact. H.L.D.

There were no presurvey review items on this survey. Prior surveys are 65 years old or more, and any comparisons would be of historical interest only.

K. COMPARISON WITH THE CHART:

This survey was compared with chart 901, Scale 1:100,000; 9th edition, March 1, 1965, and agrees very well in general features.

L. ADROUACY OF SURVEY:

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

M. AIDS TO NAVIGATION:

There were no aids to navigation on this survey.

N. STATISTICS:

O. MISCELLANEOUS:

The area covered by this survey is of typically coral bottom. There are numerous coral heads and mounds, making junctions and crosslines difficult to evaluate.

The southern boundary of this survey was chosen to be the edge of the steep drop-off which parallels the coast three to five miles offshore in this area. Due to the sheerness of the slope, soundings were lost crossing the edge, but the last good soundings on each line were kept. The 15 fathom surve approximates this.

P. RECOMMENDATIONS:

Although the data on the boat sheet is assumed to be valid, a sounding-by-sounding examination of the final plot was not made. Since the possibility exists that erroneous data could have been plotted by the computer-plotter system, the final plot is conceivably of less than boat sheet standards.

Q. REFERENCE TO REPORTS:

Reference is made to the following reports for the appropriate information:

- 1. Fathometer Report
- 2. Hi-Fix Report
- 3. Computer-Plotter Report.

Submitted:

LT Jeffrey G. Carlen, USESSA

HI-FIX CORRECTIONS WH 10-3-68

Said

DAY	POS #	PAT I	PAT II	TIME
090 091	0001-0246 0247-0594	+.15 +.14	+.08 +.08	094758-144819 093349-154739
101-	0608-0806 0807 - 0820	+.14+.14	+.08 +.09	112239-155529 160009-161239
102	0821 - 0952 0952 -1 005	+.14 +.13	+.07 +.09	100539-122650
104	1008-1142	+.14	+.08 +.09	101859-124519 125210-153120
107	1271 - 1285 1301 - 1483	+.15 +.14	+.08 +.09	153120 - 154640 093759 - 142721

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL BEIENGE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 11, 1969

Namel And Andrews Pacific Marine Center

Plane of reference approved In wolumes reference approved In

HYDROGRAPHIC SHEETS . 8984-89

Locality: South coast of Puerto Rico

Chief of Party: W. L. Mobley, 1968

Plane of reference is mean low water

Tide Station Used (Form C&GS-681):

Magueyes Island

Height of Mean High Water above Plane of Reference is as follows:

0.6 foot

Remarks

Chief, Tides and Surrents Branch

Puerto Rico 68

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TIDE TAPE PRINTOUT

USC&GS SHIP WHITING

REG. NO. H-8984 WH-10-5-68

11-8985 WH-10-5-68

11-8986 WH-20-1-68

TIME MERIDIAN 60 th

H-3938 H-8939 TIDE STATION MAQueyes Island

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TIDE TAPE PRINTOUT

USC&GS SHIP WHITING

FIELD NO. WH. 10-2-68 WH-10-4-63 WH-10-5-68 WH-20-1-63

REG. NO. #8984 #18985

TIME MERIDIAN \$45 th

H-8987 H-8988 H-8989

TIDE STATION MAGueyes Island

TIDE DATA FOR 1968

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ATEAMS OF MARINE CHUTER

PROJECTION PARAMETERS

POLYCONIC OR MODIFIED TRANSVERSE MERCATOR

1. Project No. OPR 423 4. Requested By Verification Br.
2. Reg. No. H-8986 5. Ship or Office AMC
3. Field No. WH-10-3-68 6. Date Required ASAP
7. Polyconic [x] Modified Transverse Mercator
8. Central Markelal of Projection 67 ° 65' 00"
9. Survey Scale: 1: <u>10.000</u>
10. Size of Sheet (check one):
36 x 54 [] 36 x 60 x Other Specify
11. Sheet Orientation (check one):
NYX = 1
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N
CMER CMER
12. Plotter Origin: S.W. Corner of Sheet (not necessarily a grid
Latitude 17 ° 51 ' 15 "
Longitud 67 ° 07 ' 45 "
13. G.P.'s of triangulation and/or signals attached [
14. Material Decired: Tracing Paper [] Mylar [X]
Smooth Shoot Other Specify Smooth overlay
15. Remarks: Master 17° 58' 15.890" 67° 02' 44.410" Slave II. Dunta Joseph
17° 56' 25.710" 66° 57' 20.330" Slave I 17° 56' 07.500" -67° 11' 32.850" Hi-Fix frequency 1799.6 kc - Calo Rejo
-Q/- III- 35.020-ui-lix-iradnanaA-+434-0.80

APPROVAL SHEET

H 8986 - WH 10-03-68

Daily supervision of the automated plot and survey records were made. Soundings were contoured (or grouped) during survey operations. Discrepancies that were located were annotated on the printouts. The survey was converted and all digital records have been sent to PMC for preliminary plotting after which they will be sent to AMC for verification.

I consider the data adequate for smooth plotting and charting, however, a check should be made in the verification process to determine the discrepancies that resulted from the messaging of data in the WHITING off-line processing.

Wayne L. Mobley CDR, USESSA Commanding Ship WHITING

FORM 157 (3-16-55)

On tho. P. O. Guide of Man **GEOGRAPHIC NAMES** FOR HOURS OF Or local Made Survey No. H-8986 Or No. Name on Survey E F G Mar Caribe 2 3 5 6 8 9 10 11 12 13 14 15 16 . 17___ 18 19 20 PREPARED BY 722 25 26 GEOGRAPHER 27

FORM C&GS-946 (REV: 11-65) (PRESC: NY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMEPCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. <u>8986</u>

RECORU	DESCRIPTION		AMOUN	т	RECORD DESCR	RIPTION	THUOMA
SMOOTH SHEFT	& Cos. Overl	ay	1	BOATS	1		
DESCRIPTIVE RE			-1	OVERL	AYS		3
DESCRIPTION	DEPTH PECOROS -	HORIZ, CO		PRINTOUTS .	TAPE ROLLS	PUNCHED CARD	ABSTRACTS SOURCE DOCUMENTS
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VOLUMES		·					
BOXES				1			
T-SHEET PRINTS	(Lint)						
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PR	OCESSING ACTIVIT	ΓY	-	PRE-	VERIFICATION	REVIEW	TOTALS
				VERIFICATION			1/83
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JUNCTION VERIFICA GRAPHIC SPECIAL ALL OTHE	S TION OF SOUNDINGS RECORDS ADJUSTMENTS ER WORK TOTALS			36 hrs	164 hr	TE ENG	DECEMBER

Fig. 18.

H-898 DESCRIPTIVE REPORT DATA RECORD PART I SMOOTH SHEET PREPARATION DATE PREPARED BY/OPERATOR PLOTTER OPERATOR DISTORTION MARKS PLOTTED PROJECTION INTERSECTIONS PLOTTED POINTS OF ELECTRONIC CON-TROL ARCS PLOTTED OVERLAYS PREPARED BY POSITION NUMBER Excess Soundings PRELIMINARY SMOOTH 4. LIST OTHERS SOUNDING SELECTION BY PLOTTER INPUT | PREPARED CHECKED 1. DESCRIPTIVE REPORT ADDENDUMS PART II SMOOTH SHEET COMPLETION DATE CARTOGRAPHER DISTORTION SCALE TICKS 11/3/69 W. W. FEAZEL IDENTIFIED BY NOTE PROJECTION INTERSECTIONS 11/3/69 W. W. FEAZEL VERIFIED BY W.W. FEAZEL PROJECTION LINES RULED BY ELECTRONIC CONTROL ARCS RULED AND LOCATION VERIFIED OVERLAYS COMPLETED BY 11/5/19 POSITION NUMBER W.W. FENZEL LEADERS ADDED 8/7/69 EXCESS SOUNDING FRED BEAN OVERLAY COMPARED 8/15/69 3. PRELIMINARY SMOOTH FRED BOON PLOTS COMPARED OTHERS UTILIZED A . в. DESCRIPTIVE REPORT ALLAN K. SCHUGELD 12/19/69 ADDENDUM NONE . CONTROL STATIONS VERIFIED 8/5/69 FLED BEAN POSITIONS MANUALLY PLOTTED ALLAN K. SCHUGERD MANUAL PLOT VERIFIED SHORELINE APPLIED NONE W.W. FENZEL 11/5/69 BOTTOM CHARACTERISTICS ADDED ALLAN K. SCHUGELD NOTES AND DEPTH CURVES ADDED

FORM C&GS-946A (REV. 11-85) (PRES. BY HYDROGRAPHIC MANUAL, 6-94)

U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

- CL Check List Items: should be checked as having been completed during the verification processes.
- R Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Port I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued) 10. Junctions with contemporary surveys were	CL	R
Note: The verifier should first read the Descriptive Report for general information and problems.		100	satisfactory except as follows:		
1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: None		11	Remarks Required: Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.	/	
2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: None			Port IV - VOLUMES 11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes.	/	
3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year.	.:/	14.0	Remarks Required: None		, t
Remarks Required: None			12. Condition of sounding records was satisfactory except as follows:	•	
Part II - SHORELINE AND SIGNALS 4. Source of shoreline signals Remarks Required: List all surveys	1860	•	Remarks Required: Mention deficiencies in completeness of notes or actions for the following:		
g. Give earliest and latest dates of photo- graphs			(a) rocks (b) line turns		
b. Field inspection date	/		(c) position values of beginning and ending of lines	./	: E :
e. Field Edit date d. Reviewed-Unreviewed			(d) bar check or velocity correctors	/	
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography.	1	•	(e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately		
Remarks Required: Discuss remaining differences.	1		done ?		
6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet.	/		(h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed?		
Remarks Required: None			(k) references to adjacent features	ļ	
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: List those signals still unidentified.	/.		Port V - PROTRACTING 13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing scamp. Remarks Required: None	/	, l
Part III - JUNCTIONS Note: Make a cursory comparison preliminary to inking soundings in area of overlap.		/	14. The protracting and plotting of all unsatis- factory crossings were verified.	/	
8. All junctions of contemporary or overlapping sheets were transferred in colored ink and veriapping curves were made identical.	/		Remarks Required: None		
Remarks Requireo: None 9. The notation in slanted lettering "JOINS Here" (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in penci	1/	/	15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: •• None	1 /	/
Remarks Required: None			Wemeres Wednison - wone		

Fig. 20 (cont'd.) Form 946 A (back of form)

		,			
Port V • PROTRACTING (Continued) 16. The protracting was satisfactory except as follows: Remarks Required: Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	cr.	R	Part VIII - AIDS TO NAVIGATION 26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: Conflicts of any nature listed.	CL /	R
17. The protractor has been checked within the last three months. Remarks Required: Date of check, type of protractor and number.			27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. Remarks Required: None	/	
Part VI - SOUNDINGS 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: None	/		Port IX - BOAT SHEET 28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information.		
19. Sounding line crossings were satisfactory except as follows: Remarks Required: Discuss adjustments.	/		Remarks Required: None 29. Heights of rocks awash were correctly re- duced and compared with topographic infor-	17	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: None	1		mation. Remarks Required: Note excessive con- flicts with topographic information.	1	
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: None	/		Port X - GENERAL 30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: None	/	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.	1		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: None	/	
Port VII - CURVES 23. The depth curves have been inspected before inking. Remarks Required: By whom was the penciled curves inspected.	/		32 Degree, minute values and symbols have been checked; also electronic distance ares have been properly identified and checked on the smooth sheet.	/	
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following:	e		Remarks Required: - None		
 a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange 			33. The bottom characteristics are adequately shown. Remarks Required: None	/	
d. Approximate position of shoal area not sounded in black dashed			Part XI - NOTES TO THE REVIEWER 34. Unresolved discrepancies and questionable		
Remarks Required: None			soundings.	-	
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: •• Indicate areas where	/		35. Notation of discrepancies with photogram- metric survey inserted in report of unreviewe photogrammetric survey or on copy.	4	
curves could not be drawn completely because of lack of soundings. For some inshore area	s c		36. Supplemental information.	V	1

Verifiers Report

23. H.L. ProHitt, Superusor

34. Julian day II posthois 304 thru 307 sounding were not recorded on the fathogram. The digitized print-out recorded soundings but these were disproved by adjacent hydrography and a crossline.

The soundings in question were removed from the small shoot.

423 60
SAMPLE POSITION DEPTH
17.51 45.65 66 2391 44.0
1752,330, 6786,3647 13.0
7° 72 123514766 0744 17.2
7.52 300 67% 1338 0
1783, 31,71,6784 2529 98
17.82 48.43 (4.52) 1.82.0
(1863,63.16 19.0
7°53' 1855 18 14 06 18 10.4
1. Set 17.20 17 28 48 47 120
55.09.56 67.04 31:00 10.2
2,115,000

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		SAMPLE POSITION		DEPTH WE	J. L. C. H. L.	AP- PROX. LE	LENGTH COLOR	8. 1	FIELD DESCRIPTION	CRIPTION	(Unusuel conditioning)	and conditions, cohesiveness, don	Sidentes OBS
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			59.84 67.55 39.56	53.0				2					
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-562/		\$5 5283	17.00 10.19 696	69.6				20	0				
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Α.	Additions and corrections have been furnished the plotter
	Except those indicated for center by the verification unit.correction by Review. Signed Hugh d. Walf
	Date Feb. 9, 1970 Title Chief, Hydro Br., AMC
В.	Additions and corrections have been added to the survey Review
	records and the final smooth sheet forwarded to the ***********************************
	tión unit.
	Date Feb. 9, 1970 Signed Manh J. North Title Chief, Hydro Br., AMC
c.	The smooth sheet has been inspected, is complete, and
	meets the requirements of the General Instructions for
	automated surveys and the Hydrographic Manual. (Note:
	All exceptions are listed in the verifier's report).
	Date Feb. 9, 1970 Signed May J. Walford Title Chief, Hydro Br., AMC

D. Smooth sheet and records forwarded to Rockville, Maryland Office.

Date Feb. 10, 1970

NORFOLK HYDROGRAPHIC PROCESSING BRANCH VERIFICATION NOTES H-8986

GENERAL

This appears to be an excellent basic survey in an area of extremely irregular coral bottom.

SOUNDINGS

Most of the sounding was done with a digitized Ross fathometer and much additional scanning was needed to mean wave action, determine least depths on inbetween soundings, amooth depth curves, and effect junctions with adjoining surveys. This rescanning was difficult and time consuming because the compressed scale of the Ross fathogram makes it difficult to interpret and to obtain exact depths.

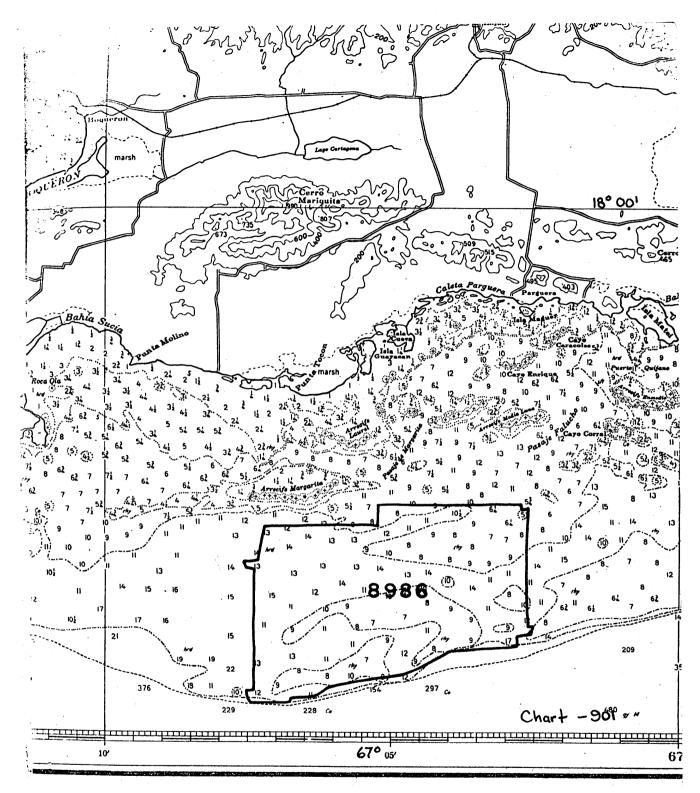
Due to our inexperience with this type fathogram much of the rescanning was done after the smooth sheet was plotted. This has resulted in an unusually large number of hand corrections and a corresponding number of changes on the final sounding card printout.

ARC OVERLAY

At the time this survey was verified there was no capability for plotting the Hi-Fix hyperbolic arcs. This overlay will be forwarded when the AMC plotter becomes operational.

Hugh L. Proffitt Chief, Hydro Br., AMC

Norfolk, Va. Feb. 9, 1970



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8986

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 Review.

CHART	DATE	CARTOGRAPHER	REMARKS
920	1/28/71	CB Samuel	Part Part After Verification Routen Inspection Signed Via
	,,	·	Drawing No. Minor revision to 10fm curve
			Alegante World War Verification Review Inspection Signed Via
5671	2/	7. B Paulero	Full Pass Defore After Verification Review Inspection Signed Via
- JW 1 1	1		Drawing No. #15
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-1.11	0/11/02	B. Ferradors	Full Part Before After Verification Review Inspection Signed Via
5040	1/1/02	<u> </u>	Drawing No. 34
23.4			Full Part Before After Verification Review Inspection Signed Via
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