

9034

1019

Diag. Cht. No. 902.

FORM C&GS-504	
U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No.	WH-20-2-69
Office No.	H-9034
LOCALITY	
State	Commonwealth of Puerto Rico
General locality	South Coast of Puerto Rico
Locality	Punta Guayanilla to Ponce, Puerto Rico
19..69..	
CHIEF OF PARTY	
CDR Wayne L. Mobley, USESSA	
LIBRARY & ARCHIVES	
DATE	19 MAR 1971

9034

Notes
 902
 920
 927 Pat Appl'd 4/9/71 CK
 928 Pat Appl'd 5/10/71 CK

20

HYDROGRAPHIC TITLE SHEET

H-9034

INSTRUCTIONS - 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.

WH-20-2-69

State Commonwealth of Puerto Rico

General locality South Coast of Puerto Rico

Locality Punta Guayanilla to Ponce, Puerto Rico

Scale 1:20,000 Date of survey 5/20/69 and 5/21/69

Instructions dated 1/23/69 and 5/6/69 Project No. OPR-423

Vessel USC&GSS Whiting

Chief of party Cdr. Wayne L. Mobley, USESSA

Surveyed by Lt. Chappell, Lt. Wallace, LTJG, Tignor, LTJG, Gillman, ENS, Cimpinski,
CST Hill

Soundings taken by echo sounder, hand lead, pole "PDR" and Digital Echo Sounders

Graphic record scaled by Digital Echo Sounder and Ship Personnel

Graphic record checked by Ship Personnel

Protracted by NA Gerber Digital Plotter Automated plot by Pacific Marine Center

Soundings penciled by NA Gerber Digital Plotter

Soundings in fathoms ~~XXX~~ at MLW ~~XXXXXX~~ SMOOTH SHEET PLOTTED IN FEET @ MLW

REMARKS: Soundings were collected and correcters were applied in fathoms.

The smooth sheet, however, will be plotted in feet to conform
to charting practices.

*Applied to stat
5/21/69
a ref*

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SURVEY H-9034
FIELD NO. WH-20-2-69
SOUTH COAST OF PUERTO RICO

SCALE 1:20,000
SHIP WHITING

WAYNE L. MOBLEY, CDR
COMMANDING 1969

SURVEYED BY: CDR. Wayne L. Mobley
Lt. George C. Chappell
Lt. Jack L. Wallace
Ltjg. Clarence W. Tignor
Ltjg. Lynn T. Gillman
Ens. Gerald J. Cimpinski

A. PROJECT

The authorization for this project is contained in revised instructions for Project OPR-423, South Coast of Puerto Rico dated January 23, 1969.

B. AREA SURVEYED

The location encompassed consists of the following area bounded by the respective latitudes and longitudes.

Latitude 17°53'00" to Latitude 17°57'30"
Longitude 66°45'00" to Longitude 66°39'00"
and
Latitude 17°50'30" to Latitude 17°56'00"
Longitude 66°39'00" to Longitude 66°34'10"

Hydrography commenced May 20, 1969, and ceased May 21, 1969.
Contemporary surveys: WH-20-1-69 (H-9033)
WH-100-1-69 (H-9029)

C. SOUNDING VESSEL

The vessel used in completing the above mentioned survey was the USC&GSS WHITING.

D. SOUNDING EQUIPMENT

The soundings collected in this survey were gathered with the following devices:

<u>Vessel</u>	<u>Sounding Device</u>	<u>S/N</u>
Whiting	Ross "Digital" Fathometer	602
Whiting	"PDR" Echo Sounder	159

Basically the Ross "Digital" Fathometer was used to develop between 10 and 200 fathoms while the "PDR" Echo Sounder was used for deeper depths.

Velocity corrections were obtained for the Whiting by means of a temperature salinity curve.

For a more comprehensive evaluation, consult the respective Fathometer Report.

E. SMOOTH SHEET

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

F. CONTROL

Hydrography was controlled with the use of Hifix. The mode of operation was a Range-Range type. The geographic positions computed from adjusted positions are as follows:

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>
Slave #1 (Corco)	17°58'42.04"	66°45'22.96"
Slave #2 (Akey) Don Q	17°58'04.70"	66°34'21.67"

Hifix corrections were calculated from several calibrations and correspondingly meaned at each calibration. Visual control was used for the purpose of calibrating the Hifix. This was the only instance where visual control was used. For more information concerning control, consult the Hifix report.

G. SHORELINE

No shoreline was involved in this hydrographic survey.

H. CROSSLINES

25% of the sounding line was run as crossline. The agreement between sounding line and crossline was found to be in close unison.

I. JUNCTIONS

The junction with H-9033 seems to be quite satisfactory. The basis for this conclusion was in analyzing the area around Longitude 66°45'00". This was the only area common to both surveys and in every respect, soundings recorded on each survey were found to be in close harmony.

The junction with H-9029 was verified by checking the area around Latitude 17°53'00". Again comparative soundings showed agreement was good.

J. COMPARISON WITH PRIOR SURVEYS

No items in the pre-survey review apply to the area surveyed. No comparison with a prior survey was made since the pre-survey review states: "Prior surveys of the area are of 1899-1927 made by leadline in shallow water and by wire soundings in deep water. While considered good in those days, these surveys are inadequate by present standards."

K. COMPARISON WITH THE CHART

C&GS Chart #902-South Coast of Puerto Rico-8th Edition March 15, 1965

A comparison between respective soundings was made and the majority of cases seemed to indicate that the soundings collected were less than the values indicated on the chart. The velocity correctors were found to be positive which is another factor indicating the same thing. However in some instances, the soundings gathered were found to be greater than those indicated on the chart. This may be an indication that previous surveys were inadequate due to currents and poor control.

L. ADEQUACY OF SURVEY

The survey is complete and adequate to supersede prior surveys for charting. *No bottom samples taken in area of survey.*

M. AIDS TO NAVIGATION

There are no aids to navigation in the area surveyed.

N. STATISTICS

The total number of positions and nautical miles of sounding line for this survey are:

WH-20-2-69

Total number of positions = 2122

Total miles of sounding line = 220.50 N.M.

Total area surveyed was 37.0 sq. miles

Bottom Samples = 0

O. MISCELLANEOUS

It should be noted that the listed limits of this survey are the extremes which include all sounding work. Therefore, it should not be mistakenly understood that the entire area lying within the latitudes and longitudes was surveyed. On the boat sheet, it can be seen that some of the soundings have not been filled in. This particular note involves the sounding lines run up to 800 fathoms. As the trace on the PDR exceeded 400 fathoms on certain lines, some difficulty was experienced in trying to decipher the trace. Therefore, these soundings were left blank.

The spacing between sounding lines was 720 meters with the spacing between "splits" being 180 meters. This did provide sufficient coverage for the hydrographic survey.

In addition no tides are applicable to this survey. Then too it was found that the TRA correction for the ship is +2.0 fathoms.

P. RECOMMENDATIONS

The smooth sheet should be plotted in feet.

Q. REFERENCES TO REPORTS AND RECORDS

1. Computer-plotter Report, OPR-423
South Coast of Puerto Rico, USC&GSS Whiting
2. Fathometer Report, OPR-423
South Coast of Puerto Rico, USC&GSS Whiting
3. Hifix Report, OPR-423
South Coast of Puerto Rico, USC&GSS Whiting
4. Listings and Fathograms for the following days: 140, 141
5. Velocity Correctors
6. Hifix Correctors

Respectfully submitted

Gerald J. Cimpinski

Gerald J. Cimpinski

COMPUTER PARAMETERS FOR ELECTRONICALLY CONTROLLED SURVEYS

(RANGE - RANGE)

(1) Project No. OPR 423 (2) N. No. 9034 (3) Field No. WH 20-2-69
 (4) Type of Control: SHORAN, RAYDIST, XXX HI-FIX, RADAR
 Frequency (for conversion of RAYDIST or HI-FIX lanes to meters) 1799.6

(5) RANGE ONE (R1) Latitude 17° 58' 42.04"
 Station Name CORCO Longitude 66° 45' 22.96"

(6) RANGE TWO (R2) Latitude 17° 58' 04.70"
 Station Name DON Q Longitude 66° 34' 21.67"

(7) Azimuth from R1 to R2 273° 20' 53.16"

(8) Baseline Length in Meters 19,490.92 M.

(9) Location of survey with respect to Electronic Baseline: CHECK ONE
 (To determine: imagine an observer standing at R1 and looking directly at R2 --- if the survey area is to the observer's LEFT then A is negative; if the survey area is to the observer's RIGHT then A is positive.)

 -A (minus) XXX +A (plus)

(10) if SHORAN corrections are applied by the equation, $K(X) + C = D$, where X is SHORAN distance and D is true distance, enter the Constant Coefficients of the equations here:

K(R1) , C(R1) , K(R2) , C(R2) .

(11) Number of Velocity Tables to be used:

 None, 1 One, More than one.

(12) This form is submitted only as an aid in preparing a boat sheet projection.

XXXXX This form applies to all data on this survey.

 This form applies to part of the data on this survey -

Time and Date limitations: From To

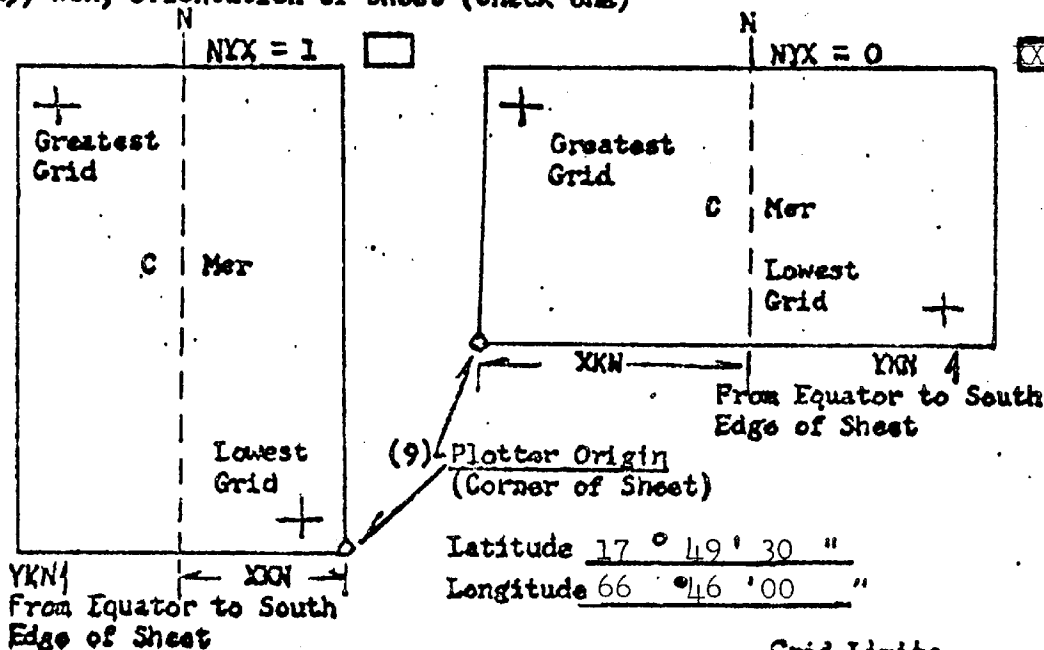
Position Number Limitations: From To

This is Form #3 Sheet # of Sheets for this survey.

(13) Other Remarks:

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

- (1) Project No. OPR 423 (4) Requested by _____
 (2) H No. 9034 (5) Ship or Office _____
 (3) Field No. WH 20-2-69 (6) Date Required _____
 (7) Visual Ft. (0) or Fathoms (1) (8) Electronic (fill out form #3)
 (10) XKN (SP 5) Distance from CMER to East Edge (NYX = 1)
 or West Edge (NYX = 0). (Origin) 6' x 1766.9 10,601 .4 Meters
 (11) YKN (SP 241) Distance from Equator to South Edge
 of Sheet. (Origin) 1,971,494.0 Meters
 (12) Central Meridian 66 ° 40 , 00 "
 (13) Survey Scale 1 : 20000
 (14) Size of Sheet (Check one) 36x60 42x60
 (15) NYX, Orientation of sheet (Check one)



Grid Limits	
(16) Greatest Latitude	<u>17° 58 ' 00 "</u> (Projection Line Interval Page 4 Hydro Manual)
(17) Lowest Latitude	<u>17° 50 ' 00 "</u>
(18) Difference	<u>8 ' "</u>
(21) Greatest Longitude	<u>66 ° 45 ' 00 "</u>
(22) Lowest Longitude	<u>66 ° 34 ' 00 "</u>
(23) Difference	<u>11 ' "</u>
(20)	<u>8</u> YSN
(24)	<u>1</u> "
(25)	<u>11</u> XSN

TC/TI TAPE

WH 20-2-69

000000 0 0020 0002 000 000000 000000
000000 0 0020 0002 999 000000 000000

WH 20-2-69

HI-FIX CORRECTORS

<u>Day</u>	<u>Time</u>	<u>Pattern 1</u>	<u>Pattern 2</u>
140	081050	-.24	+.37
140	114231	-.26	+.40
140	130000	-.31	+.40
140	164210	-.30	+.37
141	000000	-.30	+.37
141	085445	-.31	+.41
141	240000	-.31	+.41

CORRECTIONS TO ECHO SOUNDINGS

USC&GSS WHITING

WH-20-2-69

000012 0 0000 0002 000 000000 000000
000028 0 0001
000045 0 0002
000063 0 0003
000082 0 0004
000098 0 0005
000116 0 0006
000134 0 0007
000152 0 0008
000168 0 0009
000204 0 0010
000240 0 0012
000274 0 0014
000310 0 0016
000345 0 0018
000380 0 0020
000414 0 0022
000449 0 0024
000484 0 0026
000520 0 0028
000556 0 0030
000592 0 0032
000626 0 0034
000660 0 0036
000695 0 0038
000729 0 0040
000763 0 0042
000798 0 0044
000832 0 0046
000866 0 0048
000900 0 0050
000933 0 0052

FORM 0301 PRINTED BY THE STANDARD REGISTER COMPANY, U. S. A.

000968 0 0054
001000 0 0056
001170 0 0060
001340 0 0070
001530 0 0080
001750 0 0090
002010 0 0100
002300 0 0110
002920 0 0120
003720 0 0140
004720 0 0160
005750 0 0180
006820 0 0200
007760 0 0220
008630 0 0240
009420 0 0260
010140 0 0280
010920 0 0300
011650 0 0320
012320 0 0340
012960 0 0360
013580 0 0380
014180 0 0400
014740 0 0420
015270 0 0440
015780 0 0460
016280 0 0480
016820 0 0500
017280 0 0520
017750 0 0540
018200 0 0560
018630 0 0580
019120 0 0600
019670 0 0620
020220 0 0640
020740 0 0660
021280 0 0680
021840 0 0700
022370 0 0720
022900 0 0740
023440 0 0760
023980 0 0780
024500 0 0800
025040 0 0820
025570 0 0840
026120 0 0860
026640 0 0880
027180 0 0900
027740 0 0920
028260 0 0940
028810 0 0960
029350 0 0980

APPROVAL SHEET

WH-20-2-69

H-9034

This survey was supervised daily. Fathogram interpretation and check scanning was under my supervision.

Several unconventional methods were used on this survey. They include:

1. Computer conning of helm along predetermined straight lines.
2. Automatic marking of PDR trace by computer. Also, use of Ross Digital Fathometer which was automatically marked. Depths were scanned from this trace since steepness of slope prevented digitizing the soundings.
3. Boat sheet was produced on line on the plotter, but only dashed lines were drawn at location of sounding since we were unable to automate PDR depths. Soundings were inked on by hand to permit analysis of bottom and coverage.

The Descriptive Report is adequate and this survey is adequate for charting.

Wayne L. Mobley

Wayne L. Mobley

CDR, USESSA

NOTE

HI-FIX FREQUENCY

USC&GSS WHITING

During 1968 and 1969 Hi-Fix frequency was maintained
at 1799.6.

Wayne L Mobley
W. L. Mobley
CDR, USESSA
Commanding

GEOGRAPHIC NAMES

Survey No. H-9034

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<i>Mar Caribe</i>											1
											2
											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
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											21
											22
											23
											24
											25
											26
											27

PREPARED BY

Frank W. Pickett

CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright

CHIEF GEOGRAPHER

FIG. 18.

DESCRIPTIVE REPORT DATA RECORD		
PART I SMOOTH SHEET PREPARATION		
	PREPARED BY/OPERATOR	DATE
A. PLOTTER OPERATOR	EDAT - PMC	
B. DISTORTION MARKS PLOTTED	EDAT - PMC	
C. PROJECTION INTERSECTIONS PLOTTED	EDAT - PMC	
D. POINTS OF ELECTRONIC CONTROL ARCS PLOTTED	EDAT - PMC	
E. OVERLAYS PREPARED BY		
1. POSITION NUMBER	EDAT - PMC	
2. EXCESS SOUNDINGS	EDAT - PMC	
3. PRELIMINARY SMOOTH PLOT	EDAT - PMC	
4. LIST OTHERS		
A.		
B.		
F. SOUNDING SELECTION BY	EDAT - PMC	
G. PLOTTER INPUT PREPARED	EDAT - PMC	
H. CHECKED	EDAT - PMC	
I. DESCRIPTIVE REPORT ADDENDUMS		
PART II SMOOTH SHEET COMPLETION		
	CARTOGRAPHER	DATE
A. DISTORTION SCALE TICKS IDENTIFIED BY NOTE	GFT	2-17-71
B. PROJECTION INTERSECTIONS VERIFIED BY	GFT	2-9-71
C. PROJECTION LINES RULED BY	GFT	2-9-71
D. ELECTRONIC CONTROL ARCS RULED AND LOCATION VERIFIED	GFT	2-18-71
E. OVERLAYS COMPLETED BY		
1. POSITION NUMBER LEADERS ADDED	GFT	2-19-71
2. EXCESS SOUNDING OVERLAY COMPARED	FRG	1-12-71
3. PRELIMINARY SMOOTH PLOTS COMPARED	FRG	1-12-71
4. OTHERS UTILIZED		
A.		
B.		
F. DESCRIPTIVE REPORT ADDENDUM	GFT	2-22-71
G. CONTROL STATIONS VERIFIED		
H. POSITIONS MANUALLY PLOTTED	GFT	11-30-70
I. MANUAL PLOT VERIFIED	FRG	1-4-71
J. SHORELINE APPLIED		
K. BOTTOM CHARACTERISTICS ADDED		
L. NOTES AND DEPTH CURVES ADDED	GFT	2-16-71

FORM C&GS-946A
(REV. 11-65)
(PRES. BY HYDROGRAPHIC
MANUAL, 8-94)

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

VERIFIER'S REPORT
HYDROGRAPHIC SURVEY, H 9034

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.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
<p>Note: The verifier should first read the Descriptive Report for general information and problems.</p> <p>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</p>	✓		<p>10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.</p>	✓	
<p>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</p>	✓		<p>Part IV - VOLUMES</p> <p>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. Remarks Required: -- None</p>	✓	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	✓		<p>12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following: (a) rocks (b) line turns (c) position values of beginning and ending of lines (d) bar check or velocity correctors (e) time recording (f) notes or markings on fathograms (g) was reduction of soundings accurately done? (h) was scanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features</p>	✓	
<p>Part II - SHORELINE AND SIGNALS</p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys</p> <p>o. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed</p>					
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>					
<p>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. Remarks Required: -- None</p>	✓				
<p>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 under way.</p>	✓		<p>Part V - PROTRACTING</p> <p>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>	✓	
<p>Part III - JUNCTIONS</p> <p>Note: Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and vera, true curves were made identical. Remarks Required: -- None</p>	✓		<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>	✓	
<p>9. The notation in slanted lettering "JOINS H---- (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None</p>	✓		<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	✓	

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

Part V - PROTRACTING (Continued)			Part VIII - AIDS TO NAVIGATION		
	CL	R		CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refer to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	✓		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.	✓	
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			Part IX - BOAT SHEET		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	✓		28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None	✓	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	✓		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.	✓	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	✓		Part X - GENERAL		
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	✓		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.	✓		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	✓	
Part VII - CURVES			32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: -- None	✓	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected. <i>HLP</i>	✓		33. The bottom characteristics are adequately shown. <i>NONE</i> Remarks Required: -- None	✓	
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed Remarks Required: -- None	✓		Part XI - NOTES TO THE REVIEWER		
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 curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.	✓		34. Unresolved discrepancies and questionable soundings.		
			35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.		
			36. Supplemental information.		
Verified by <i>F. R. Gilder</i> & <i>G. F. Tiedeman</i>				Date <i>2-22-71</i>	

H- 9034

A. Additions and corrections have been furnished the plotter
center by the verification unit, ^{Except those marked for submission} by Review
Date Mar. 16, 1971 Signed *Styl J. Puff*
Title Chief, Verification Br., AMC

B. Additions and corrections have been added to the survey
records and the final smooth sheet forwarded to the ~~XXXXXX~~
~~tion~~ unit.
Date Mar. 16, 1971 Signed *Styl J. Puff*
Title Chief, Verification 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 Mar. 16, 1971 Signed *Styl J. Puff*
Title Chief, Verification Br., AMC

D. Smooth sheet and records forwarded to Rockville, Maryland
Office.
Date March 17, 1971

VERIFIER: Floyd R. Gilden

Norfolk, Va.
Jan. 20, 1971

AMC PLOTTER NOTE TO EDAT
SURVEY H-9034

This office has completed the verification of the preliminary sounding overlay and we are returning sounding card printout (dated 12-7-70) with needed changes marked in red pencil.

After these changes have been made, please furnish this office a smooth plot of this survey.


Hugh L. Proffitt
Chief, Verification Br., AMC

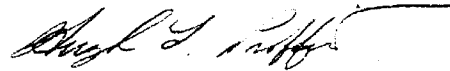
VERIFIER: Guy F. Trefethen

Norfolk, Va.
Dec. 1, 1970

AMC PLOTTER NOTE TO EDAT
SURVEY H-9034

This office has completed verification of the preliminary position overlay for this survey and we find that only position 017 needs to be recomputed. Please correct as indicated on the enclosed Zerox ~~copy~~ copy of the position printout.

After this change has been made, please furnish this office a sounding overlay for this survey.

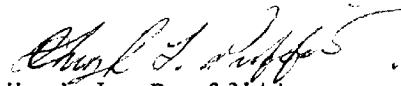


Hugh L. Proffitt
Chief, Ver. Branch, AMC

VERIFICATION NOTES
SURVEY H-9034

GENERAL

This appears to be an excellent basic survey. Soundings are in good agreement at crossings and depth curves form normal patterns in the deeper water. On the North side of the survey curves in the shoaler waters near the junctional areas were left in pencil as the bottom is extremely irregular and there will undoubtedly be changes as the plots of the larger scale, more closely developed inshore surveys become available.



Hugh L. Proffitt
Chief, Verification Br., AMC

Norfolk, Va.
Mar. 16, 1971

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9034

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
928	5-10-71	C. E. Harrington	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No.
927	4-9-71	C. E. Harrington	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. 10
902	9-20-71	R. A. Lillis	Full Part Before After Verification Review Inspection Signed Via Drawing No. 15
920	2-14-72	L. J. Moore	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>Exam - No Critical Corr</i> <i>Adequate</i> ^{Before}
25681 (928)	12-27-77	Allen J. Dyer	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No.
25683 (927)	8-23-78	J. Briggs	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. <i>Adequately applied.</i>
25677	3-10-80	B. Fenwick	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. <i>Adequately Applied</i>
25640	9-8-83	B. Fenwick	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. 34
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No. 34

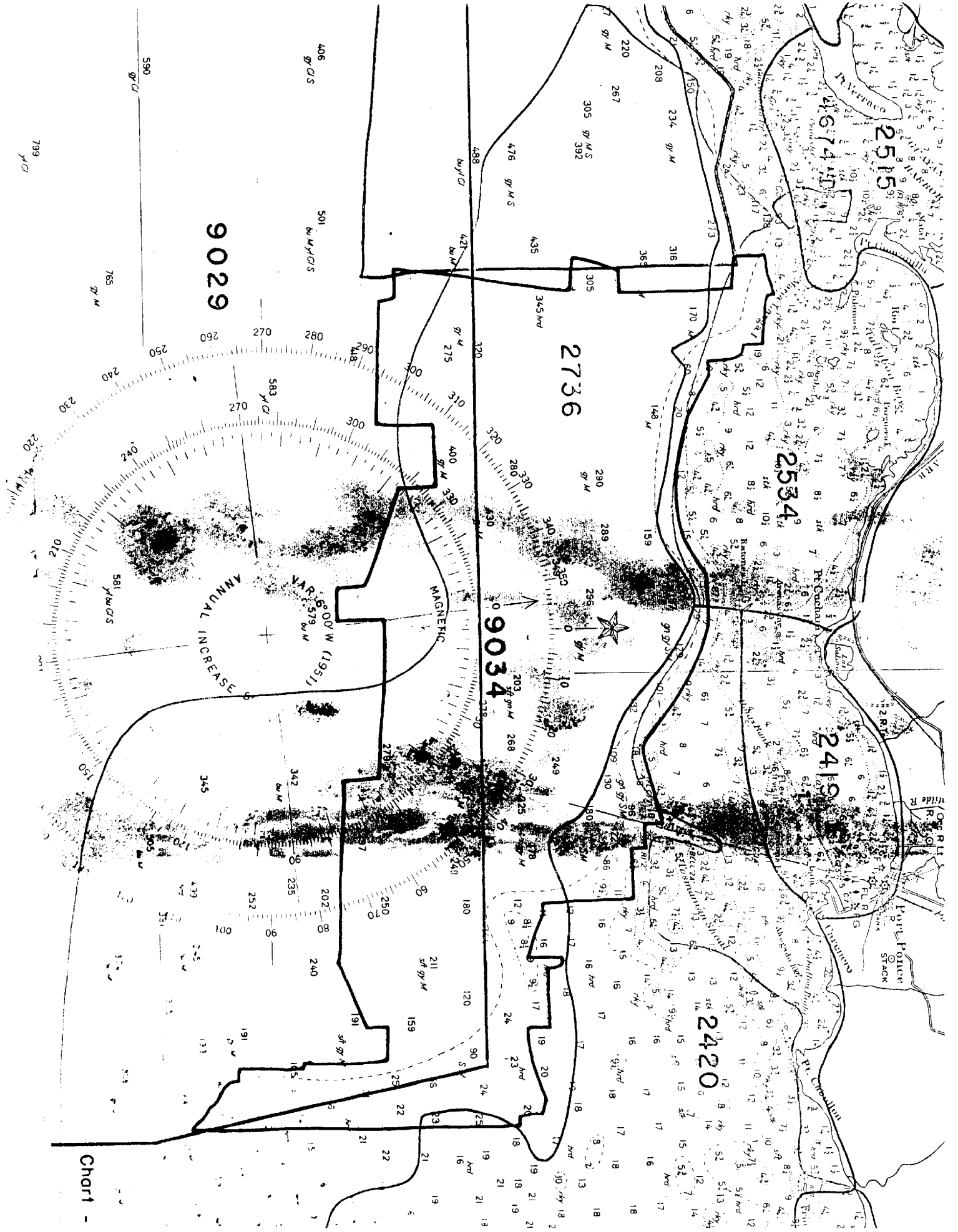


Chart -

739
y/ci

