<u>9603</u>

Diag. Cht. Nos. 904-2 & 905

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey

HYDROGRAPHIC

Field No. WH-10-3-76

H-9603

Office No. U.S. VIRGIN ISLANDS

General Locality ST. THOMAS

Locality NORTHWEST OF ST. THOMAS

OHIEF OF PARTY
R.A. Träuschke

LIBRARY & ARCHIVES

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Charto 904 905

☆ U.S. GOV. PRINTING OFFICE: 1975-688-353

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NOAA FORM 77-28

SUPERSEDES FORM C&G5-537.

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

RISGISTER NO.

FIELD NO.

HYDROGRAPHIC TITLE SHEET

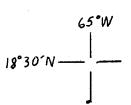
H-9603

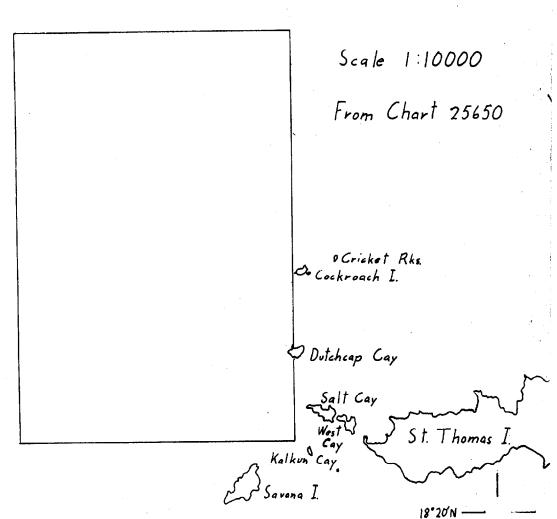
Å U.S. GPO: 1974-0-768-081/1207

filled in as completely as possible, when the sheet is forwarded to the Office.		76	
State U.S. Virgin Islands			
General locality St. Thomas Loland	•		
Locality Area Morthwest of St. Thomas Island			
Scale 1:10,000 Date of s	survey March 3	-24,1976	<u> </u>
Instructions dated October 16, 1975 Project 1			
Yessel NOAA Ship Whiting			V . N. 109
Chief of party Robert A. Trauschke, CDR, NOAA LCDR, J.W. DeCoste, LT.D.W. Yeager, LT.	P.R. Chelgre	n,ENS. J.G.	Gofus
Surveyed by ENS. G.R. Barone, ENS. V.E. Newell, ENS	D.M. Goodri	.ch	<u> </u>
Soundings taken by echo sounder, kandyleanly.sode Ross 5000	•		
Graphic record scaled by Ships personnel		<u> </u>	
Staphic record checked by Ships personnel		Calcomp-618	
Protracted by N/A Auto	mated plot byl	lydroplot S	ystem
Verification by R. Hill			
o+ MLW Soundings in fathoms:x feet xatxxxMixxxxxXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	s not reduced	l for tides	
REMARKS: Time meridian for all work was 0°, (GM	IT)		
Project instructions supplemented by o	change # 1, da	ted 20 Jan	uary
1976.			
		•	
applied to steln 10	-Z8-77		
applied to state 10	ato		· · · · · · · · · · · · · · · · · · ·
	3 *		

WH-10-3-76

SHEET LIMITS





DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-9603 (Field No. WH-10-3-76)

A. PROJECT

This survey was conducted in accordance with Project Instructions OPR-423-WH-76, Virgin Islands, dated October 16, 1975, as supplemented by Change No. 1 dated January 20, 1976.

B. AREA SURVEYED

The area surveyed is approximately 5 miles Northwest of St. Thomas Island, with the following boundaries:

Latitude (North) ... 18°22.1' - 18°28.15'

Longitude (West) ... 65°04.5' - 65°08.4'

The nearest adjacent coastline is on Cockroach Island,

Dutchcap Cay, Salt Cay, Kalkun Cay and Savana Island.

The survey was conducted from March 3, 1976 (Julian Day 063) to March 24, 1976 (Julian Day 085).

Main scheme line spacing was 400 meters, except in areas less than 125 feet in which 200 meter spacing was used. Morphology of the bottom in the area covered by this survey was generally relatively flat except in the

southern portions of the area where the bottom was irregular, depth curves tend generally East-West in this area another irregular area was noted in the Northwest corner of the sheet, bottom samples in this area also show a change, this area is coral and probably a submerged coral reef.

C. SOUNDING VESSEL

The NOAA Ship WHITING, CSS-29, performed all survey operations on this sheet. The EDP number of the WHITING was 2930.

D. SOUNDING EQUIPMENT

The depth recorder used by the WHITING for this survey was a Ross Model 5000, Serial Number 1049; the digitizer a Ross Model 6000, Serial Number 1055; and the transmitter a Ross Model 4000, Serial Number 1055. This equipment performed satisfactorily during the course of the survey with no breakdowns, recording depths between 100 and 200 feet. Calibrations were done frequently during the operations; any initial error was taken into account during scanning of the fathograms. Squat and settlement corrections were obtained from October 1973 trials of the WHITING.

These corrections are listed in the Appendices under "Abstract of Corrections to Echo Soundings".

Two leadline comparisons with this fathometer were taken in shallow (70 ft.) water. After applying velocity corrections and correcting for transducer draft, differences between leadline casts and fathometer readings were negligible (less than 1 %).

Velocity corrections were based on three Nansen casts and TDC cast taken at the following dates and locations:

Nansen casts:	March 8, 1976	18°32.6' N
		65°16.8' W
	March 12, 1976	18°08.8' N
		65°10.1' W
	March 26, 1976	18°09.0' N
		65°11.0' W
TDC cast	March 4, 1976	18°19.9' N
		65°01.1' W

Corrections produced from these casts are essentially identical. Data from the casts was used to compute sound velocity at depth, by means of program RK 530 with curve fit option. Transducer draft was taken into account. This output information was then graphed,

and depth intervals for which particular corrections were to be applied were scaled off (ref. Provisional Hydrographic Manual). Intervals and their corrections were then made up into a velocity correction tape, which was used in final plots.

E. HYDROGRAPHIC SHEETS

The field sheets were prepared by WHITING personnel using a Houston Instrument Model DP-3-5 Plotter, serial number 4680-1. The survey area was divided into two plotter sheets at 65°06'30". Velocity corrections and static draft corrections have been applied to the soundings; electronic position corrections have been applied during the plotting.

The smooth sheets will be sent to Atlantic Marine Center, Norfolk, Virginia for verification and plotting.

F. CONTROL STATIONS

The following were used as electronic control stations:

<u>Name</u>	EDP Number	Locality
EL VIGIA USE, 1966	148	Culebra I.
EAST END , 1900	. 158	Vieques I
T-95 CADASTRAL, 1946 (Fortuna Hill)	130	St. Thomas I.

All stations are monumented, recoverable, and conform to 3rd order standards. Puerto Rico datum is used throughout.

G. HYDROGRAPHIC POSITION CONTROL

Position control was accomplished using the Del Norte system, a range-range configuration stations were selected so that intersection of Del Norte ranges was at no time less than 30° .

At times during the course of the survey erroneous readings were obtained; however, at no time

were these errors frequent enough to seriously degrade the accuracy of the survey. These errors were noted on line and later corrected on a time and course basis. Probable causes for these readings were system malfunction or foremast interference. The former would include DMU, Remote, or Master malfunction. Foremast interference refers to the fact that, on certain headings, the foremast passed between Remote and Master Units, causing occasional erroneous readings.

Calibration of the system in the field was accomplished using three point fixes on the signals listed in the appendix. Pattern correctors were computed from visual and electronic fix data using RK 561. Inverse distance between fixes and check fixes were compared and daily pattern correctors computed as follows:

Fixes with inverse distances of 20 meters were counted once; 10-15 meter inverses, twice; 5-10 meter inverses, 3 times; and inverses of less than 5 meters were counted 4 times in averaging.

In this manner the effects of bad visual fixes were minimized. In addition every two weeks, the system

was calibrated along a baseline of known length. In this configuration, each DMU and Master was calibrated against the complete set of Remote units in accordance with procedures described in the Del Norte manual.

The equipment used was as follows:

Distance Measuring Unit, serial number 180; Master

Unit, S/N 185; Remote Unit "A" (El Vigia), S/N 251;

Remote Unit"D"(I-95), S/N 245; and Remote Unit "D"

(East End) S/N 222.

All field and baseline calibrations are included in the report "Field Records for Determination of Electronic Position Correctors".

For the most part, this electronic position control was stable and consistent during the course of this survey.

H. SHORELINE

There was no shoreline covered on this survey.

I. CROSSLINES

The percentage of crosslines run on this survey was 14.4 %. Agreement between main scheme and crosslines was excellent, generally 0-1 ft. In no case was any sounding in disagreement by more than three feet and these few occured in areas of irregular relief.

J. JUNCTIONS

This survey junctions with five contemporary surveys, four of which were done during this project.

H-9601 ESE H-9602 ENE

Junctions with WH-10-1-76 and WH-10-2-76 are excellent,

with differences of 1 foot or less. Although no actual

junction was required (i.e. same vessel, same year)

H-9617 S.

with WH-10-5-76, the adjacent line on WH-10-5-76 shows

continuity of depth curves and good area agreement.

H-9604 W** NNW

Agreement of junction sounding on WH-20-1-76
is good, well within one fathom. Junctions with prefer
H-9517 NNE
survey WH-20-2-75, done also by the WHITING in 1975
was excellent with agreement within 0-1 feet except
where bottom was irregular and soundings did not fall
exactly on top of each other, disagreement was less
than three feet in these areas.

K. COMPARISON WITH PRIOR SURVEY

The last survey of this area was done in 1923-1926, Registry No. H465la. The scale was 1:20,000 and the soundings were in fathems. The survey only extends to 26° N. A random sampling of soundings throughout the survey showed good agreement (within 1 fathom) on all but two soundings:

H-4651a	H-9603		
Depth	<u>Depth</u>	Latitude	Longitude
176	168	18°23.6' N	65°07.7' W
188	179	18°24.4' N	65°06.0' W

The latter was the deepest found on H-465la, while the deepest on H-9603 was 183 feet. This area shows evidence of irregular bottom with small peaks, it is felt that the shoaler soundings from this survey should be charted as these depths were probably missed during the course of the prior survey.

L. COMPARISON WITH THE CHART

The survey was compared with Chart 25650 (904), Virgin Passage and Sonda de Vieques, dated August 9, 1975. Agreement was good overall within .50 fathom on all soundings but those mentioned below. Disagreement

may be due in part to errors in transferring soundings from the 1:100,000 chart to the 1:10,000 sheet. An additional source at error is in the comparison of soundings in fathoms to soundings in feet. However, several of the disagreements clearly cannot be accounted for by these effects.

The following soundings were in substantial disagreement:

Charted Sounding (feet)	Nearest Sheet Sounding (feet)	<u>Latitude</u> <u>Longitude</u>
. 1		95 18°27.±' N 65°05.3' W 7
1. 168	179–183	
2. 174	180	18°27.2' N 65°06.0' W
3. 198	174-175	18°27.3' N 65°08.8' W
4. 168	177	18°27.5' N 65°06.6' W
5. 138	176,30	18°23.8' N 65°07.5' W
6. 102 (source unknown see verifier		18°24.0' N 65°07.5' W

Sounding numbers 2, 4, and 5 fell directly on a sheet sounding, while nos. 1, 3, and 6 fell between lines (sheet depth given is the local range of depths). Sounding 6, the shoalest depth in this area of the chart, was not found nor was ther any indication of shoaling in the immediate vicinity. It is believed that the survey is of greater accuracy that the chart and that survey depths should be used.

M. ADEQUACY OF SURVEY

This survey is complete and adequate, and should supercede all prior surveys.

N. AIDS TO NAVIGATION

There no aids to navigation in the survey area.

O. STATISTICS

Total Miles	139.9
Total Square Miles (Inner Margins)	20.4
Percentage of Crosslines	14.4
Number of Positions:	
STD Stations	3
Tide Stations	5

P. MISCELLANEOUS

The central meridians listed in the Projection Parameters form are the central meridian of the smooth sheet and not of the project (i.e. not same as on parameter tape).

Q. RECOMMENDATIONS

None

R. AUTOMATED DATA PROCESSING

Data was plotted on-line using RK lll, Range-Range Real-Time Hydroplot, version 1/30/76. Off-line plots were formulated with RK 2ll, Range-Range Sounding Plot, version 1/15/76. Visual calibrations of Del Norte units were obtained through RK 561, Hyperbolic and Range-Range Geodetic calibrations, version 2/19/75. Plotting sheets were constructed using AM 201, Grid and H/R Lattice Plot, version 4/18/75. All types were edited using AM 602, Extended Line-Oriented Editor (ELINORE), version 3/10/72.

S. REFERENCES TO REPORTS

The reports "Field Records for Determination of Electronic Position Correctors" and "Field Records for Determination of Corrections to Echo Soundings" will be forwarded to Atlantic Marine Center, Norfolk, Virginia shortly after this report.

Approval Sheet

David Mr. Doodrich

Submitted by

David M. Goodrich Ensign, NOAA

Supervision of field and office work on this hydrographic survey was continuous on a day to day basis to ensure completeness of the survey and that all work was done in accordance with the instructions.

Approved/Forwarded

Cdr., NOAA

Commanding Officer, NOAA Ship Whiting

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VELOCITY TAPE LISTING

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Atlantic Marine Center:

Hourly heights are approved for Form 362

Tide Station Used (NOAA Form 77-12): Botany Bay

Period: March 3 - 25, 1976

HYDROGRAPHIC SHEET: H-9603

OPR: 423

Locality: Off the northwest coast of St. Thomas, V.I.

Plane of reference (mean XXXXXXXX low water): 2.2 ft.

Height of Mean High Water above Plane of Reference is 0.9 ft.

Remarks: Zone direct.

Chief, Tides Branch

NOAA FORM 76-155 (11-72)	NATIONAL	OCEANIC A			NT OF CO		SUR	VEY NU	MBER	
	GEOGRAPH							-9603		
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APPROVAL SHEET FOR SURVEY H- 9603

- A. All revisions and additions made on the smooth sheet during verification have been entered in the magnetic tape records for this survey. A new final position printout has/has not been made. A new final sounding printout has/has not been made.
- B. The verified smooth sheet has been inspected, is complete, and meets the requirements of the Pro-visional Hydrographic Manual. Exceptions are listed in the Verifier's Report.

Date: 26 April 1977

Signed: William I fo

Title: Chief, Verification Branch

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9603

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION			AMOUNT			AMOUNT				
SMOOTH SHEET	1		BOAT SHEETS (2 parts, mylar)				1			
DESCRIPTIVE RI	rlay	1		overlays (prelimi		liminary)	inary) 2			
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRINT	OUTS TAPE ROLLS PUNCHED CARDS		SOU	RACTS/ JRCE MENTS		
Accordion envelopes	7		-	smooth	1				misc.	data
CAHIERS	1-with									
VOLUMES	ı									
BOXES					1					

T-SHEET PRINTS (List)

NONE

SPECIAL REPORTS (List)

OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

		AMOL	NTS		
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIE	у та	TALS
POSITIONS ON SHEET				19	00
POSITIONS CHECKED		80	10		
POSITIONS REVISED		10			
DEPTH SOUNDINGS REVISED		30	5		
DEPTH SOUNDINGS ERRONEOUSLY SPACED			.		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED	-			,	
		TIME (MA	NHOURS)		
TOPOGRAPHIC DETAILS			==		
JUNCTIONS		12	2		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		15	6	;	
SPECIAL ADJUSTMENTS	·			•	
ALL OTHER WORK		56	12	2	
TOTALS		83	20)	
PRE-VERIFICATION BY D. V. Mason, M. W. Johnson		BEGINNING DATE 05/21/		ENDING DATE 12/04/	76
VERIFICATION BY R. R. Hill		BEGINNING DATE 04/01/		O4/21/	77
REVIEW BY R. R. Hill		BEGINNING DATE END		ENDING DATE 04/29/	77

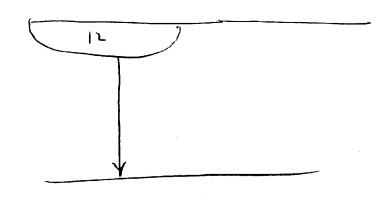
The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey the following shall be completed:

AINDA AANDDAMDD	
CARDS CORRECTED	ì

DATE	TIME REQ'D	INITIALS
REMARKS:		
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REMARKS



H-9603

Information for Future Presurvey Reviews

The bottom has basically remained unchanged although several isolated areas reveal differences of 20 feet which is attributed to different survey methods.

Positio	n Index	Bottom Change	Use	Resurvey
Lat.	Long.	<u> Index</u>	Index	Cycle
182	651	2	1	50 years

ATLANTIC MARINE CENTER VERIFIER'S REPORT

REGISTRY NO. H-9603

FIELD NO. WH-10-3-76

U.S. Virgin Islands, Northwest of St. Thomas

SURVEYED: March 3 through March 24, 1976

SCALE: 1:10,000 PROJECT NO.: OPR-423

SOUNDINGS: Ross Model 5,000 #1049 CONTROL: Del-Norte

ENS J. G. Gofus
ENS G. R. Barone
ENS V. E. Newell

1. Introduction

Standard verification procedures were used in completing the verification of this survey and no unusual problems were encountered during this process.

2. Control and Shoreline

- a. The control for this survey is adequately described in Sections F and G of the Descriptive Report.
- b. There is no shoreline within the limits of this survey.

3. Hydrography

- a. Depths at crossings are in good agreement.
- b. The standard depth curves adequately represented the bottom. Several brown curves have been added to emphasize other bottom features.
- c. The development of the bottom configuration is adequate.

4. Condition of the Survey

The smooth sheet and accompanying overlays, hydrographic records, and reports are adequate to conform to the requirements of the Provisional Hydrographic Manual.

5. Junctions

An adequate junction has been effected with the following surveys:

H-9604 (1976) to the north and west

H-9517 (1975) to the north

H-9602 (1976) to the east

H-9617 (1976) to the south H-9601 (1976) to the southeast

6. Comparison with Prior Surveys

a. H-465la (1923-26) 1:20,000

This prior survey covers only the southern two-thirds of the present survey. There are no prior surveys covering the remaining northern portion. A comparison of the areas in common reveals only minor differences, which are attributed to the less detailed and less accurate methods employed on the prior survey.

The present survey is adequate to supersede the prior survey within the common areas.

b. H-4651b WD (1924-27) 1:20,000

This wire drag survey covers the southern two-thirds of the present survey. There are no conflicts between present survey depths and effective drag depths on this wire drag survey.

7. Comparison with Chart 25650, 20th Edition, August 9, 1975

a. Hydrography

The charted hydrography north of latitude 18° 26' apparently originates with British Admiralty charts. A comparison between the present survey and the charted hydrography reveals only minor differences, and these are considered insignificant.

The charted hydrography below latitude 18° 26' originates with the previously discussed prior survey and requires no further consideration. Only minor differences were noted between charted depths and present survey depths, with the following exception:

A 17 fathom (102 feet) charted sounding at latitude 18° 24.1'N, longitude 65° 07.56'W was not found on the present survey. The authenticity of this sounding is questionable and it is recommended not to be retained for charting.

Except as noted, the present survey is adequate to supersede the charted hydrography within the common area.

b. Aids to Navigation

There are no aids to navigation located within the limits of hydrography on this survey.

8. Compliance with Instructions

This survey adequately complies with the Project Instructions.

9. Additional Field Work

This is a very good basic survey and no additional field work is recommended.

Approval Sheet for H-9603

Examined and Approved:
Hydrographic Inspection Team
Date:

CDR Robert A. Trauschke, NOAA Chief, Processing Division COR Defifrey G. Carlen, NOAA
Whief, Coastal Mapping Division

C. Douglas Mason, LT, NOAA Chief, EDP Branch

William L. Jorks Chief, Verification Branch

Norathy C Calland
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Verification Branch

Approved/Forwarded

Robert C. Munson

RADM, NOAA

Director, Atlantic Marine Center

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

C352

June 22, 1977

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T0:

A. J. Patrick

Chief, Marine Surveys Division

THRU:

Chief, Quality Control Branch

FROM:

R. W. DerKazarian Rw Derkazaran

Quality Evaluator

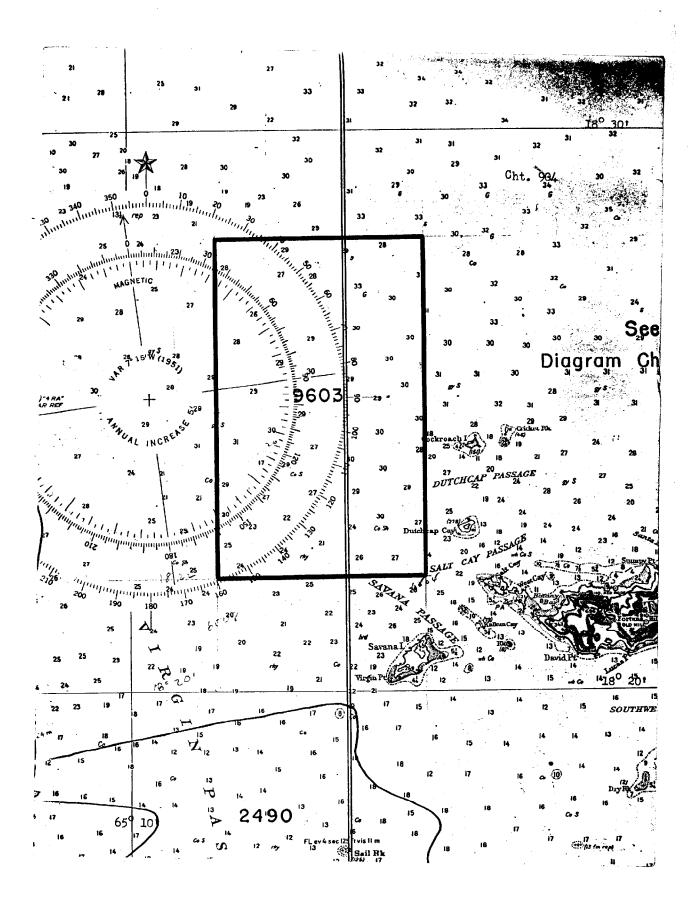
SUBJECT: Quality Control Report for H-9603 (1976), Northwest of

St. Thomas, St. Thomas, Virgin Islands

Survey H-9603 was inspected to evaluate the accuracy and adequacy of the survey with respect to data acquisition, delineation of the bottom, determination of least depths, navigational hazards, junctions, sounding line crossings, smooth plotting, decisions and actions taken by the verifier, and the cartographic presentation of data. In general, it was found to conform to the National Ocean Survey's standards and requirements.

- 1. The junction adequacy of survey H-9601 and H-9617 of 1976 will be considered at the time of their quality control evaluation. These surveys have not been received at Headquarters as of the date of this report. An adequate junction was effected with H-9517 (1975) and H-9604 (1976) at the time of the quality control evaluation.
- 2. The HIT Team did not enter its time on the "Hydrographic Survey Statistics" sheet.

cc: C351



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. __9603

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Letter all information.
 In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Ch

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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

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