

TP-00009

TP-00009

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline/Photobathymetry.....

Job No. ...CM-7718..... Map No. TP-00009.....

Classification No. III Edition No. ...1st.*...
(Two Parts)

LOCALITY

State ...Saint Croix, Virgin Island.....

General Locality ...Southeast Coast.....

Locality ...Jack Bay to Milord Point.....

19 77 TO 19

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> SURVEY TP. <u>00009</u> (2 Parts) MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH. CM-7718</u> </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00009</u> (2 Parts) MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH. CM-7718</u>		
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PHOTOGRAMMETRIC OFFICE Photogrammetry Division (Rockville)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19__ TO 19__
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TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE Cdr. Walter S. Simmons							
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
Instructions-OFFICE-Job CM-7718, Chart Compilation and Photobathymetry, St. Croix, Virgin Islands, 8/21/78. Instructions-AEROTRIANGULATION-Job CM-7718, Chart Compilation and Photobathymetry, St. Croix, Virgin Islands, 8/3/78.		Instructions-PHOTOGRAPHY-Job CM-7718, Shoreline Mapping and Photobathymetry, St. Croix, Virgin Islands, 10/26/77 Instructions-FIELD-Job CM-7718, Shoreline Mapping and Photobathymetry, St. Croix, Virgin Islands, 9/21/77					
II. DATUMS							
1. HORIZONTAL: <input type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify) <u>Puerto Rico Datum</u>					
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input checked="" type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) _____					
3. MAP PROJECTION Lambert Conformal Conic		4. GRID(S) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE <u>Virgin Islands</u></td> <td style="width: 50%;">ZONE <u>St. Croix</u></td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE <u>Virgin Islands</u>	ZONE <u>St. Croix</u>	STATE	ZONE
STATE <u>Virgin Islands</u>	ZONE <u>St. Croix</u>						
STATE	ZONE						
5. SCALE <u>1:10,000</u>							
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION BY METHOD: <u>Analytic Block</u> LANDMARKS AND AIDS BY		<u>Robert B. Kelly</u>	<u>4/6/79</u>				
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		<u>Henry Felices</u> <u>N/A</u>	<u>"</u> 				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		<u>R. W. Rodkey, Jr.</u> <u>G. Fromm</u>	<u>5/21/79</u> <u>5/21/79</u>				
INSTRUMENT: <u>B-8S/ALTEK Bathymetry</u> CONXXXX BY SCALE: <u>1:10,000</u> CHECKED BY		<u>R. W. Rodkey, Jr.</u> <u>G. Fromm</u>	<u>6/21/79</u> <u>6/21/79</u>				
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		<u>Henry Felices</u> <u>G. Fromm</u>	<u>9/28/79</u> <u>10/30/79</u>				
METHOD: <u>Bathymetry</u> CONXXXX BY <u>Smooth Drafting & Scribing</u> CHECKED BY		<u>R. W. Rodkey, Jr.</u> <u>G. Fromm</u>	<u>6/21/79</u> <u>10/30/79</u>				
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		<u>R. W. Rodkey, Jr.</u> <u>G. Fromm</u>	<u>6/21/79</u> <u>10/30/79</u>				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>N/A</u>					
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		<u>Field Edit Canceled</u> <u>N/A</u>					
7. COMPILATION SECTION REVIEW BY		<u>G. Fromm</u>	<u>10/30/79</u>				
8. FINAL REVIEW BY		<u>Robert W. Rodkey, Jr.</u>	<u>11/25/81</u>				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>" " "</u>	<u>12/22/81</u>				
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>G. Fromm</u>	<u>3/19/82</u>				
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>H. W. Macfar</u>	<u>4-20-82</u>				

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES

TP-00009 (2 Parts)

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(Z)

Focal length=153.14mm

TYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

☐ PREDICTED TIDES☒ REFERENCE STATION RECORDS☐ TIDE CONTROLLED PHOTOGRAPHY

(C) COLOR

(P) PANCHROMATIC

(I) INFRARED

ZONE

Atlantic

☒ STANDARD

MERIDIAN

60th

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
77Z(C) 9244-9247	11/14/77	0913-0922	1:20,000	+ .45 Feet MHW
77Z(C) 9405-9408	11/14/77	1101-1111	1:20,000	+ .55 Feet MHW
77Z(C) 9265-9266	11/14/77	0935-0944	1:20,000	+ .53 Feet MHW

REMARKS

The stages of Tide listed above were determined from "WEST INDIES LAB" tide gage records.

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high-water is the photography, except frames 77Z(C) 9265-9266, listed above under Item 1. Refer to paragraph #35 of the Compilation Report bound with this Descriptive Report.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source of the mean low-water is the photography, except frames 77Z(C) 9265-9266, listed under Item 1. Refer to paragraph #35 of the Compilation Report bound with this Descriptive Report.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00004 *	TP-00005 *	No Contemporary Survey	TP-00008 *

REMARKS * Consist of two parts - Shoreline Manuscripts plus Photobathymetric overlay. Final junction was made to both parts.

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

HISTORY OF FIELD OPERATIONS

TP-00009

I. ☒ FIELD ~~INSPECTION~~ OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY Photo Party 62	Robert S. Tibbetts	Oct. 1977
2. HORIZONTAL CONTROL	RECOVERED BY L. H. Davis	10/26/77
	ESTABLISHED BY N/A	
	PRE-MARKED OR IDENTIFIED BY L.H. Davis	10/26/77
3. VERTICAL CONTROL	RECOVERED BY N/A	
	ESTABLISHED BY L.H. Davis	11/3/77
	PRE-MARKED OR IDENTIFIED BY L.H. Davis	"
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A	
	LOCATED (Field Methods) BY N/A	
	IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	N/A
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N/A
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Pre-marked2. VERTICAL CONTROL IDENTIFIED
Premarked (Orange Panel)

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
77Z(C) 9246 and 77C(C) 9776	FANCY, 1919	77Z(C) 9246 and 77C(C) 9776	Vertical Panel #9

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

: None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

Field Control Report

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

Field Control Report

Control Identification Cards (Vertical and Horizontal)

NOAA Form(s) 76-72 (List of Directions)

Photographs of Vertical Control Panels

Vols. I and II

Horizontal Observations

Vol I WYE Leveling Book

NOAA FORM 76-36C
(3-72)

RECORD OF SURVEY USE

TP-00009 (2 Parts)

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline Map plus Photobathymetry map overlay.	10/30/79	Class III Shoreline Map. Field edit canceled.		1/13/81
Shoreline/Photobathymetry Maps final reviewed prior to registration.	11/25/81	Class III Shoreline Map. Field edit canceled.	3/22/82	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2 Pages		3/22/82	76-40 listing(s)

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: 3/26/82

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

TP-00009

SUMMARY

This map is one of nine 1:10,000 scale shoreline/photobathymetric maps that comprise Job CM-7718. The map was compiled in two parts; part 1 is the base shoreline manuscript and part 2 is the photobathymetric overlay.

The project area encompasses the island of Saint Croix, U.S. V.I. and the Buck Island National Monument.

The purpose of this survey is to provide data for use in the maintenance of published charts and new chart construction.

Field operations began in October 1977. Operations generally consisted of aerial photography, tidal observations, and the recovery, establishment, and identification of horizontal and vertical control. Horizontal control was premarked (paneled), vertical control was premarked and photoidentified. There was no field inspection performed.

High and low altitude natural color photographs were furnished to complete this job. Basic aerotriangulation photography was flown at 1:50,000 scale, compilation photography at 1:20,000 scale. The high altitude photography was taken in November 1977 with the Wild RC-8(C) camera, the 1:20,000 scale photography in November/December 1977 with the RC-8(E).

Eight strips of color photography, two 1:50,000 scale and six 1:20,000 were bridged by analytic aerotriangulation methods and adjusted to ground on the Virgin Island State Plane Coordinate System. The two high altitude strips were bridged to provide control for bridging the lower altitude strips. Sixteen horizontal and seventeen vertical control stations were used in the block adjustments of the six 1:20,000 scale strips. This work provided the horizontal and vertical control for compilation.

Aerotriangulated control points from the two southern low altitude bridged strips were transferred to one adjacent 1:20,000 scale strip, 77-Z(C)9265-9280. This allowed densification and a seaward extension of photobathymetry compilation on TP-00006 through TP-00009.

Tidal data information for this job was furnished by the Tides and Water Level Division (OA/C23). This information consisted of reference station records for four tide gages and was used in determining the tidal stage at the time each compilation photography was taken.

Compilation was performed in the Special Projects Section (Rockville). Compilation was accomplished through standard photogrammetric methods utilizing the Wild B-8S stereoplotter interfaced

with an ALTEK digitizing system. This map is based on an office interpretation of the 1:20,000 scale photographs. The depths and six-foot interval depth curves depicted on the photobathymetric overlay are referred to the MLW datum established by NOS. A tide zone factor was applied to each photobathymetric model in order to reference all digital data to the MLW datum.

Basic map line work is smooth compilation drafted. Discrete depths were scribed using the Calcomp 718 flatbed plotter to produce a stable base scribecoat negative. The depth curves were then hand scribed on this scribecoat. Using photographic processes, the scribecoat negative was used to produce a stable base positive, the photobathymetric overlay.

This map edition will not be upgraded. Post-compilation photogrammetric field operations were canceled July 2, 1980. Hydrographic surveying is scheduled in the area covered by this map. Field data developed to upgrade this map will be incorporated as part of the hydrographic survey and/or forwarded to the Marine Chart Division for blueprint.

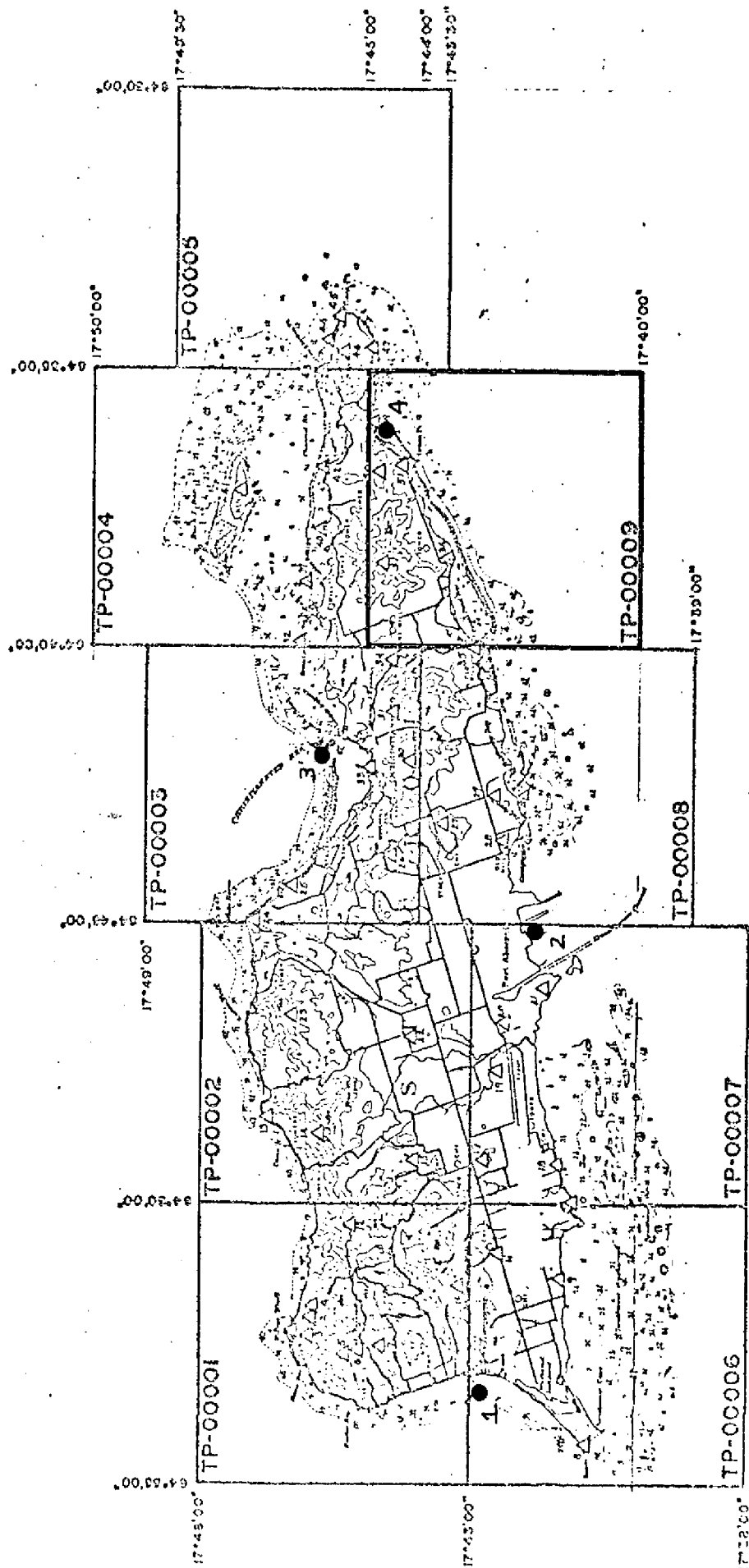
Final review was performed by the Special Projects Section (Rockville). The map was found to be satisfactory and meets the requirements of Bureau Standards and the National Standards for Map Accuracy.

This Discreptive Report contains all pertinent reports and listings of data used to complete the map.

JOB CM-7718
ST. CROIX, VIRGIN ISLANDS
SHORELINE MAPPING & PHOTOBATHYMETRY
SCALE 1:10,000

● **TIDE GAGES**

- 1 Frederiksted
- 2 Limetree Bay
- 3 Christiansted
- 4 West Indies Lab



FIELD INSPECTION

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal and vertical control necessary for aerotriangulation.

CONTROL REPORT

Job CM-7713
St. Croix, Virgin Islands

GENERAL STATEMENT:

In accordance with project instructions, circled stations were premarked as reported on NOAA Form 76-53. All triangulation stations were premarked with 1:50,000 scale arrays. Horizontal control was limited to stations that were needed to meet aerotriangulation requirements. No recovery notes were written because a Satellite Triangulation Party had recovered stations in the previous month. No new stations were established.

Substitutions were made for Panels No. 4 and No. 5. Permission to premark or photo identify BULOWS MINDE was refused by the property owner. A site, 736.392 meters north of station WORK, 1919, was premarked. Computations are enclosed. Station MOND, 1919 was premarked direct as an extra station. Station FANCY, 1919 was premarked in place of Station SEVEN, 1919.

In all cases Panel Array No. 1 was used. However, on several occasions the full array could not be placed. These deviations have been indicated on the Control Station Identification Card (NOAA Form 76-53).

VERTICAL CONTROL: Vertical Panels 1 thru 5, 8 thru 11, 13 thru 15, 17 and 18 were all premarked with Array No. 3. However, on several occasions the full array could not be placed. These deviations have been indicated on NOAA Form 76-53 (Control Station Identification Card). Elevations were determined from bench marks or by water transfers.

At Vertical Panel sites 6, 7, 12, 16 and 19, a boat was maneuvered into an area where bottom detail was abundant. At this time the depth of the water was taken from the bow of the boat. An aerial photograph of the boat position was then taken from a circling aircraft. These methods are noted in the following paragraphs.

VERTICAL PANEL No. 1

The Panel was placed on the northwest side of St. Croix. The area is known as Hamns Buff. The Panel is approximately 75 feet south of the shoreline. The elevation of the water was determined by levels from Bench Mark "1 AZ 1957". The water elevation was transferred to a point close to the Panel. Levels were run from this point to the Panel. The Panel's elevation is 10.721 feet above mean sea level.

VERTICAL PANEL No. 2

The Panel was placed in a grass field in an area known as North Star Estates. The elevation was determined by a water transfer, levels were run from the water level to the Panel. Panel is 22.738 feet above 1.75 feet on Christiansted Tide Staff.

VERTICAL PANEL No. 3

The Panel was placed near the shoreline in an area known as Judith Fancy. The elevation was determined by a water transfer, levels were run from the water level to the Panel. Panel is 10.475 feet above 1.70 feet on Christiansted Tide Staff.

VERTICAL PANEL No. 4

The Panel was placed on the south side of Green Cay, a small island off the northeast shoreline of St. Croix. The elevation was determined by a water transfer, levels were run from the water level to the Panel. Panel is 0.62 feet above 1.80 feet on Christiansted Tide Staff.

VERTICAL PANEL No. 5

The Panel was placed near the shoreline on the northeast side of St. Croix in an area known as Mary's Fancy. The elevation was determined by a water transfer, levels were run from the water level to the Panel. Panel is 5.90 feet above 3.85 feet on West Indies Laboratory Tide Staff.

VERTICAL PANELS No. 6 and No. 7

Vertical Panels No. 6 and No. 7 were boat stations off the northwest and northeast shoreline of Buck Island respectfully. At both stations, a photograph and a depth of water was taken on the inner and outer sides of the reef.

VERTICAL PANEL No. 8

The Panel was placed on the east side of St. Croix. The elevation was determined from Bench Mark No. 1, 1975 located at the West Indies Laboratory. An elevation of 10.00 feet was assumed for the Bench Mark. Levels were run to the water, and then on to the Panel. Panel is 7.24 feet above the assumed elevation of BM No. 1, 1975. BM No. 1 1975 = 2.05

VERTICAL PANEL No. 9

This is an orange colored Panel placed on a wreck that is grounded on the reef just south of Great Pond Bay. The elevation was determined by a direct water transfer from the water level to the Panel. Panel is 7.5 feet above the water level, 1015 AST 3 Nov. 1977.

VERTICAL PANEL No. 10

The Panel was placed in a boat yard east of the town of Christiansted; approximately 200 feet south of the bulkhead and piers. The elevation was determined by levels from Bench Mark "9 CES 1957 4". The elevation of the Panel is 2.038 feet above mean sea level.

VERTICAL PANEL No. 11

The Panel was placed in an open parking lot approximately 150 feet west of Centerline Road in an area known as Peter's Rest. The elevation was determined by levels from Bench Mark "7 CES 1957-207". The elevation of the Panel is 190.750 feet above mean sea level.

VERTICAL PANEL No. 12

Vertical Panel No. 12 was a boat station off the southeast shore of St. Croix near Half Penny Bay. A photograph of the boat and depth of the water was taken simultaneously.

VERTICAL PANEL No. 13

The Panel was placed on an island southwest of Hess Oil Company Refinery. The elevation was determined by levels from Bench Mark "1401 C 1977". An assumed elevation of 30.00 feet was used. The difference in elevation between the Bench Mark and Panel is -11.584 feet. *Line Truss*

"1401 C 1977" = 14.77 MSL

VERTICAL PANEL No. 14

The Panel was placed in an empty lot located approximately 1/4 mile north of Centerline Road in the central part of the island. The elevation was determined by levels from Bench Mark "5 CES 1957 188". The elevation of the panel is 147.502 feet above mean sea level.

VERTICAL PANEL No. 15

The Panel was placed at "T" intersection along Centerline Road in the central part of the island. The elevation was determined by levels from Bench Mark "3 CES 1957 127". The elevation of the panel is 109.405 feet above mean sea level.

VERTICAL PANEL No. 16

Vertical Panel No. 16 was south of the airport and south of an ship wreck. A photograph of the boat and a depth of the water was taken simultaneously.

VERTICAL PANEL No. 17

The Panel was placed north of the Wind Mill located at the Whim Great House Estates. The elevation was determined by levels from Bench Mark "3 CES 1957 127". The elevation of the panel is 92.155 feet above mean sea level.

VERTICAL PANEL No. 18

An area at the west end of the pier at Fredricksted is to be used as the Panel. Several points in this area were leveled to from Bench Mark "1 AZ 1957". This was done to verify that the area of the pier was level. The elevation of the area varies from 7.626 feet to 7.566 feet above mean sea level. See NOAA Form 76-53 for detailed sketch of area leveled.

VERTICAL PANEL No. 19

Vertical Panel No. 19 has 4 different intersection positions and 1 boat

position off the shoreline at the southwest cape of St. Croix. Positions 1 thru 4 are located by a baseline from Triangulation Station 51197. Computations enclosed. Position 5 is a photograph of a boat with a depth observed at the time of photography. Positions along the shoreline of the southwest cape are as follows:

10 Nov 1977	Intersection Position No. 1	Depth 13.0 ft	Time 11:10 AST
10 Nov 1977	Intersection Position No. 2	Depth 13.5 ft	Time 11:19 AST
10 Nov 1977	Intersection Position No. 3	Depth 58.0 ft	Time 11:54 AST
10 Nov 1977	Intersection Position No. 4	Depth 8.6 ft	Time 12:45 AST
13 Nov 1977	Boat Position No. 5	Depth 7.5 ft	Time 9:19 EST

20. Extra Vertical Panel

The panel was placed on a wrecked landing craft that is approximately due south of the Alexander Hamilton Airport. The panel was 3.75 feet above the water level at 1005 AST 11/7/77. *Lime Tree*

Respectfully Submitted,

Approved and Forwarded:

Ronald E. Ledbetter
R/L Ronald E. Ledbetter

Robert S. Tibbetts
 Robert S. Tibbetts
 Chief, Photo Party 62



C-5741
UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY
Rockville, Md. 20852

14

July 2, 1980

OA/C3442:LVS

TO: OA/C342 - John D. Perrow

FROM: OA/C34 - Walter S. Simmons

SUBJECT: Registration of Maps for Job CM-7718
St. Croix, Virgin Islands

Request for field edit has been canceled for all maps in Job CM-7718.

You are hereby instructed to complete final review and register maps TP-00001 through TP-00009 as Class III.

CC:
C3442
C3424
C3421
CAM52



10TH ANNIVERSARY 1970-1980
National Oceanic and Atmospheric Administration
A young agency with a historic

Photogrammetric Plot Report
St. Croix, Virgin Islands
CM-7718 March 1979

21. Area Covered

This report covers nine 1:20,000 sheets, TP-00001 thru TP-00009 of Saint Croix, Virgin Islands.

22. Two strips of 1:50,000 scale photography were bridged by analytic aerotriangulation methods to establish control for bridging 1:20,000 scale compilation photography and adjusted to ground on the Virgin Islands State Plane Coordinate system using the block adjustment program. Six strips of 1:20,000 scale compilation photography were bridged by analytic aerotriangulation methods. In using the 185 photo block program to adjust the six strips it was found that this program could not handle 109 photographs, however using the same block program it was determined that the 185 block program would handle 100 photographs. Two blocks were run to adjust the six strips to ground on the Virgin Islands State Plane Coordinate system. One block used strips one through five and the other block used strips two through six. Visible landmarks and fixed aids to navigation were located during bridging of the 1:20,000 scale photography.

Ratio values were determined on the 1:20,000 bridging photography and provided along with other bridging data to compilation.

23. Adequacy of Control

The horizontal control provided was adequate except for Work, 1919 (panel) which proved to be in error in the 1:50,000 scale strip and block adjustments. No apparent reason was found to justify error. All other control held within the accuracy required by National Standards of Maps at 1:50,000 and 1:20,000 scale.

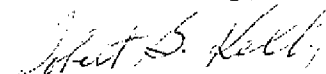
24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide vertical elevations for preliminary strip adjustments.

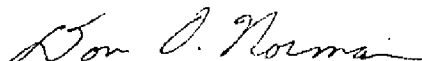
25. Photography

RC-8 color film positives were adequate as to coverage, overlap and definition.

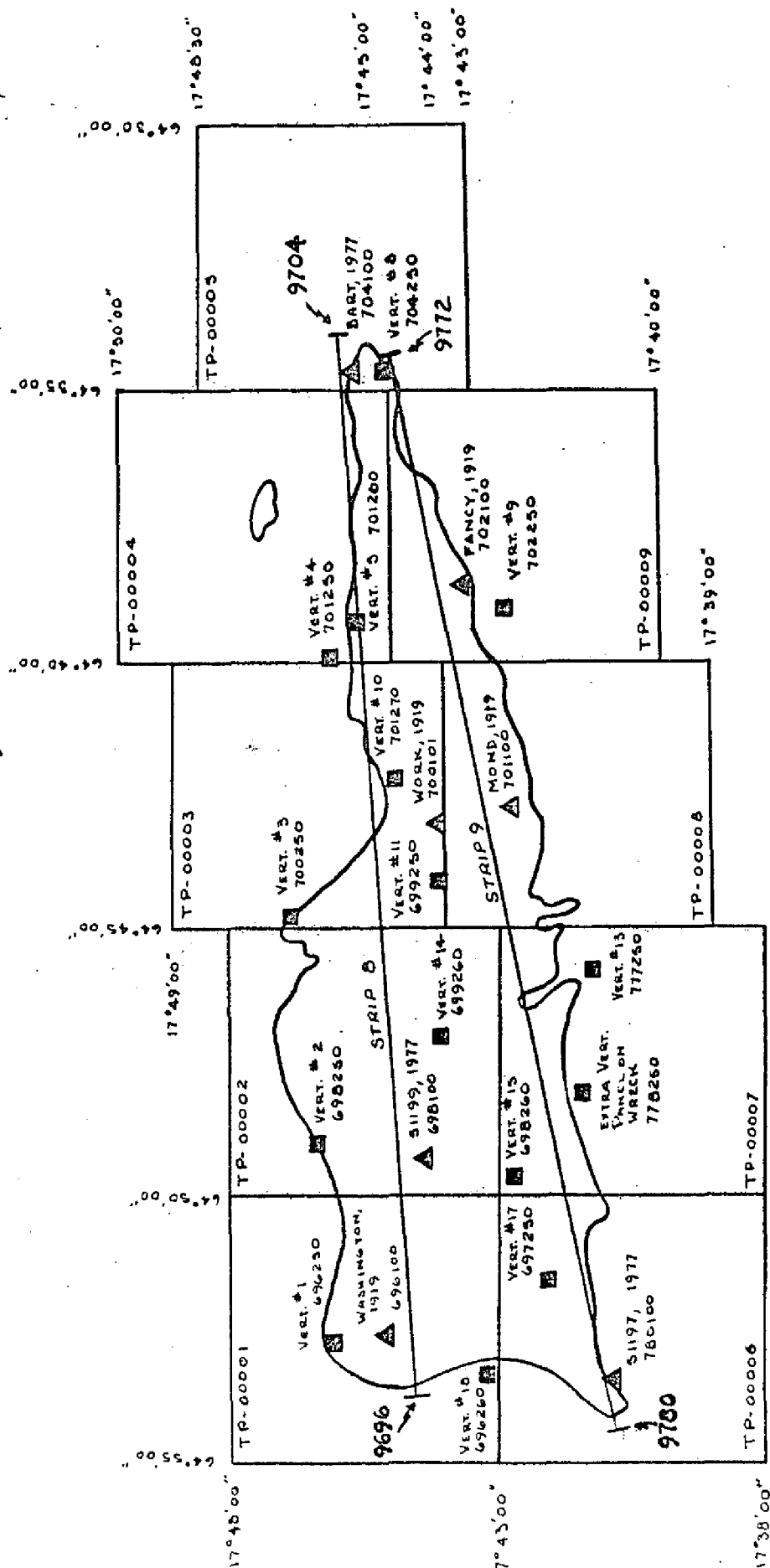
Submitted by,


Robert B. Kelly

Approved and forwarded:


Don O. Norman
Chief, Aerotriangulation Section

JOB CM-7718
 SAINT CROIX, VIRGIN ISLANDS
 SHORELINE MAPPING
 SCALE 1:50,000



△ HORIZONTAL CONTROL
 □ VERTICAL CONTROL

ST. CROIX BLOCK STRIPS 1"5

18

		.997	2.815	
	696100	1041446.517	72288.765	314.779
		- 1.139	1.296	
	698100	1063453.739	68106.523	252.785
		- .191	- .405	
	700101	1096636.121	66247.038	164.488
		- .413	- .506	
△	701100	1099155.587	57744.404	97.348
		- .099	.367	
△	704100	1149182.554	75898.178	224.647
		- .080	- .361	
△	730100	1036597.741	47727.177	5.507
				- .658
□	230220	1037855.244	47434.682	-5.342
	230220	1037855.220	47434.493	-5.657
				- .105
□	316220	1132925.320	83111.322	-13.695
				.095
	316221	1132630.376	87741.250	-7.795
	316230	1132925.413	83111.773	-9.617
	316241	1132630.407	87741.592	-5.498
				1.693
	317220	1127633.814	89807.280	-18.693
	317221	1126428.075	89853.375	-9.834
	317220	1127633.817	89807.135	813.162
	317221	1126428.065	89253.322	-6.750
				.123
	318220	1065084.072	55881.181	60.923
				- 2.116
	318221	1072621.038	55947.150	20.504
		.280	.445	- .404
△ □	396250	1039963.265	79110.146	10.317
		.371	.007	.139
△ □	396260	1037635.121	59513.124	7.457
		- 3.652	- 1.441	.101
	397250	1047223.491	54833.798	92.256
		- .009	.280	- .139
△ □	399250	1062634.736	70692.574	23.099
		- .429	.135	- .111
△ □	399260	1059231.380	59378.303	109.294
		.325	.053	- .138
△ □	399250	1090260.642	63846.566	190.612
		.177	1.352	- 2.880
	399260	1075362.125	65270.776	144.622
		.119	- .031	.318
△ □	700250	1086758.333	93995.890	11.243
		- .011	- .165	.038
△ □	701250	1114661.838	78844.112	1.268
		- 1.615	.208	- .653
	701260	1118873.147	77741.317	5.507
		- .029	.280	- .126
△ □	701270	1103392.061	72353.391	1.912

		.045	- .336	- .985
△ □	704250	1149094.526	75067.192	14.305
		- 1.827	- .249	- 1.740
	776250	1067233.315	51480.005	2.760
	696850	1036002.220	69419.714	28.222
	697850	1052332.525	69544.308	529.718
	699850	1071973.676	84956.702	6.458
	699860	1076209.566	80536.579	869.863
	699870	1084531.749	73684.116	493.606
	700850	1089481.060	80916.623	38.273
	701850	1102127.635	73141.771	38.993
	701860	1105201.610	74183.706	12.920
	703850	1128732.932	87209.159	4.583
		.068	.065	
△	703860	1133988.507	66765.831	-2.151
	704870	1138553.611	76727.153	72.430
	775850	1098421.955	67833.508	254.501
	777850	1072808.386	55879.167	21.140
	773850	1065294.530	53402.655	60.712
	730850	1032592.315	47076.005	7.900

CAPD COUNT= 00047

ST. CROIX BLOCK STRIPS 276

		^{+ .267}	^{+ .777}	
△	696100	1041445.787	72236.727	614.779
		^{- .884}	^{+ .238}	
△	698100	1063454.194	63105.270	252.849
		^{- .039}	^{- .450}	
	700101	1096686.273	66246.993	163.136
		^{- .289}	^{- .089}	
△	701100	1099155.711	57744.911	97.357
		^{- .165}	^{+ 2.382}	
	702100	1124017.685	63720.752	245.739
		^{- .128}	^{+ .407}	
△	704100	1149182.525	75898.18	225.162
		^{- .196}	^{- .220}	
△	730100	1036597.625	47727.316	3.396
				^{+ .264}
□	230220	1037855.188	47434.722	-6.236
	230280	1037855.146	47434.742	-3.903
				^{+ 1.899}
	316220	1132925.395	88111.746	-11.901
				^{+ 1.706}
	316221	1132690.464	87741.487	-5.994
	316230	1132925.485	88111.706	-7.823
	316281	1132690.488	87741.549	-3.697
				^{- 1.849}
	317220	1127639.132	89807.327	-18.849
				^{+ .178}
□	317221	1128468.422	89253.352	-9.522
	317280	1127639.135	89807.185	-13.315
	317281	1128468.410	89253.297	-6.464
				^{+ .141}
	518290	1065062.962	55078.400	60.941
				^{- 2.313}
	518291	1072621.216	55944.896	20.307
				^{+ .576}
□	608220	1069695.773	46442.589	-11.224
	608280	1069695.752	46442.602	-7.743
				^{- .041}
□	614220	1103112.779	55645.407	-5.141
	614280	1103112.761	55645.419	-3.392
		^{+ .407}	^{- .051}	^{- .277}
△ □	696260	1037685.157	59513.066	7.319
		^{- 4.460}	^{- 1.307}	^{+ .080}
	697250	1047294.683	54538.932	92.235
		^{+ .226}	^{- .096}	^{+ .164}
△ □	698250	1062035.021	79692.390	23.402
		^{- 1.916}	^{- 1.518}	^{+ .068}
□	698260	1059279.893	59376.920	109.473
		^{+ .602}	^{- .150}	^{- 1.789}
□	699250	1090260.919	65646.363	188.961
		^{+ .711}	^{+ .220}	^{- 4.041}
	699260	1075362.659	65269.644	143.461

		- .086	+ .077	- .413
△ □	700250	1086788.128	83998.188	10.512
		- .011	- .183	- .008
● △ □	701250	1114681.957	79844.794	1.162
		- 1.271	+ .167	- .296
	701260	1118873.491	77741.276	5.954
		+ .031	+ .230	- 1.354
△	701270	1103892.079	72853.331	.684
		- .281	+ .191	+ .083
△ □	702250	1122402.658	61410.138	8.483
		+ .104	- .169	- .272
□	704250	1149094.745	75067.359	15.018
		- .100	- .114	- .281
□	777250	1080994.736	49930.826	2.909
		- 2.584	- 3.342	- .313
□	778250	1067232.554	51176.912	4.187
		1.453	2.687	
	696850	1036092.131	69418.130	27.227
		.611	2.516	
	697850	1052331.097	69544.503	528.264
		5.003	1.563	
	699860	1076210.180	80534.719	870.781
		3.322	1.54	
	699870	1084531.948	73683.22	492.462
		1.167	.979	
	700850	1089451.416	80916.237	38.123
		.700	.156	
	701850	1102127.615	73141.142	37.615
		.274	1.073	
	701860	1105291.635	74453.669	41.784
		2.262	.229	
	703850	1128033.252	87209.693	4.915
		.092	.053	
△	703860	1133960.531	86765.519	-.055
	704801	1143164.015	76530.799	22.196
	704802	1145038.727	72954.481	41.698
		5.020	1.750	
	704870	1139568.385	75727.809	76.252
		.287	1.060	
	775850	1098422.015	67333.459	253.228
		1.724	3.149	
	777850	1072608.389	55867.614	20.555
		2.224	.876	
	778850	1065293.613	55099.904	69.753
		2.812	1.312	
	778860	1055636.967	49679.867	20.135
		1.702	2.825	
	780850	1032591.908	47076.127	8.561

CARD COUNT= 00055

LISTING OF RATIO VALUES
CM7718
St. Croix, USVI

Ratio Values for natural color photography to achieve 1:10,000 -

77Z(C) 9812 thru 9830 - 2.04X
77Z(C) 9865 thru 9885 - 2.03X
77Z(C) 9893 thru 9897 - 2.02X
77Z(C) 9152 thru 9165 - 2.02X
77Z(C) 9916 thru 9926 - 2.03X
77Z(C) 9372 thru 9374 - 2.02X
77Z(C) 0074 thru 0090 - 2.01X
77Z(C) 0101 thru 0115 - 1.98X
77Z(C) 9325 thru 9349 - 2.01X
77Z(C) 9229 thru 9247 - 2.03X
77Z(C) 9405 thru 9408 - 2.03X
77Z(C) 9263 thru 9281 - 2.02X

PAGE 1 of 1

NOAA FORM 76-41 (6-75)										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
DESCRIPTIVE REPORT CONTROL RECORD										ORIGINATING ACTIVITY									
MAP NO.		JOB NO.		GEODETIC DATUM		AEROTRI- ANGULATION POINT NUMBER		COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS							
STATION NAME		SOURCE OF INFORMATION (Index)		STATE ZONE		X Y		φ λ		φ λ									
TP-00009		CM-1718		PUERTO RICO															
SIGHT MILL, 1919		S.P. P116		508401		X=		φ 17-44-21.233											
						Y=		λ 64-39-42.929											
COTTON GROVE MILL, 1919		S.P. P121				X=		φ 17-43-56.810											
						Y=		λ 64-38-10.920											
FANCY, 1919		P.C., P2 G.P., P66		702100		X=		φ 17-43-29.995				Recovered 1977							
						Y=		λ 64-38-24.682											
						X=		φ											
						Y=		λ											
						X=		φ											
						Y=		λ											
						X=		φ											
						Y=		λ											
						X=		φ											
						Y=		λ											
						X=		φ											
						Y=		λ											
						X=		φ											
						Y=		λ											
						X=		φ											
						Y=		λ											
COMPUTED BY		DATE		COMPUTATION CHECKED BY		DATE						DATE							
LISTED BY		DATE		LISTING CHECKED BY		DATE						DATE							
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY		DATE						DATE							

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

Compilation Report

TP-00009

Reference is made to the Photogrammetric Plot Report bound with this Descriptive Report. In addition to the six strips of 1:20,000 scale photography bridged to compile the nine maps covering this survey area, one more strip was used. This strip 77Z(C) 9265-9280, also 1:20,000 scale, was used to compile portions of the photobathymetric data (depths and depth curves) shown on maps TP-00006 through TP-00009. Control for this strip was transferred by means of the Wild PUG instrument from two of the adjacent strips bridged.

31. Delineation

This survey was accomplished in two parts. Part 1 is the base shoreline map and Part 2 is the photobathymetric overlay. This entire survey was compiled at 1:10,000 scale using the Wild B-8S stereoplotter interfaced with an ALTEK digitizing unit. The base shoreline map was compiled using the B-8S stereoplotter. The detail shown on the photobathymetric overlay was compiled using the B-8S/ALTEK system. Photography used for compilation is the 1:20,000 scaled natural color taken in 1977.

32. Control

Refer to the Photogrammetric Plot Report bound with this Descriptive Report.

The identification, density, and placement of horizontal and vertical control was adequate.

33. Supplemental Data

Tidal data information for this job was furnished by the Tides and Water Level Division (OA/C23). This information consisted of reference station records for four tide gages and was used to determine the stage of tide for each frame of the photography used in the compilation phase.

34. Contours and Drainage

All drainage is from office interpretation of the natural color photography.

35. Shoreline and Alongshore Details

The mean high-water line and shoreline structures were compiled by office interpretation of the natural color photography.

The mean low-water line and reefs/ledges were compiled using underwater contouring compilation methods. Vertical control for this compilation was furnished by field methods and the photogrammetric plot. Reef/ledge symbols represent the approximate mean low-water line.

There was no preliminary field inspection of the shoreline.

36. Offshore Details and Photobathymetry

No unusual problems were encountered compiling the offshore detail depicted on the shoreline base map (Part 1).

Submerged coral and rock formations shown on the base shoreline map indicate the characteristics of the seabed and do not necessarily represent a hazard to navigation.

Photobathymetric discrete depths and depth curves (underwater contours) were compiled using the B-8S/ALTEK system. The depth curves were compiled using conventional underwater contouring methods. The MLW and reef/ledge lines depicted on the base shoreline map represent the zero depth curve. The discrete depths were compiled in digital form and then processed through a series of computer software routines to provide the depths as shown on the photobathymetric overlay (Part 2).

The photobathymetric data compiled is referenced to the mean low-water datum established by NOS.

Suspended silt and sun spots restricted the placement and density of discrete depths in some areas.

37. Landmarks and Aids

Refer to the 76-40 listing(s) bound with this Descriptive Report for those charted landmarks identifiable on the compilation photography. There were no fixed aids to navigations located.

The landmarks shown on the base map were not investigated by field personnel.

38. Control for Future Surveys

No Form 524 was submitted.

39. Junctions

Refer to Form 76-36B, Item 5, bound with this Descriptive Report.

40. Horizontal and Vertical Accuracy

This map complies with the National Map Accuracy Standards.

41. thru 45. Inapplicable46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangle(s):

East Point, V.I., 1:24,000 scale, 1958 Edition

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following charts:

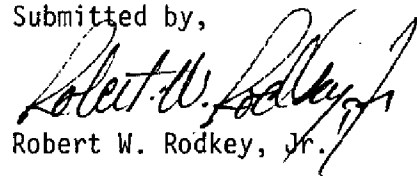
25640, scale 1:326,856, 26th Edition dated 7/29/78

25641, scale 1:100,000, 16th Edition. dated 5/20/78

Items to be applied to Nautical Charts immediately - None

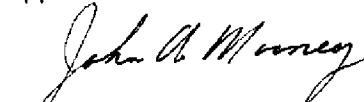
Items to be carried forward - None

Submitted by,



Robert W. Rodkey, Jr.

Approved and Forwarded:



John A. Mooney, Jr.
Chief, Special Projects Section
(Rockville)
Photogrammetry Division

TP-00009
REVIEW REPORT
SHORELINE/PHOTOBATHYMETRY (PHOTOGRAMMETRIC)

61. GENERAL STATEMENT

Refer to "Summary to Accompany Descriptive Report" for general information in regards to the completion of this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

The geographic area covered by this map was mapped in 1919 at a scale of 1:10,000. Since nearly sixty (60) years have lapsed, no comparison between this map and those prior surveys was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Refer to the Compilation Report, Item 46, for information on this subject.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The latest hydrographic surveys of this geographic area were conducted in the 1924 thru 1926 field seasons. The photobathymetric data was compared to the forementioned hydrographic surveys.

65. COMPARISON WITH NAUTICAL CHARTS

Refer to the Compilation Report, Item 47, for information on this subject.

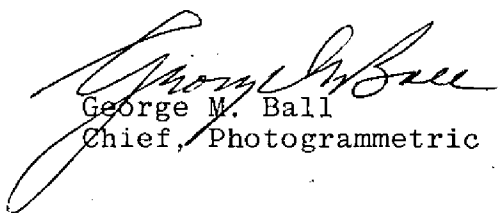
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

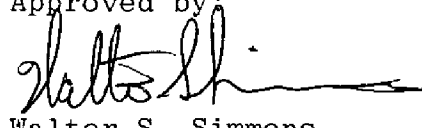
Submitted:


Robert W. Rodkey, Jr.
Final Reviewer

Approved for Forwarding by:


George M. Ball
Chief, Photogrammetric Branch

Approved by:


Walter S. Simmons
Chief, Photogrammetry Division

2/11/80

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7718 (St. Croix, Virgin Islands)

TP-00009

Caribbean Sea

Cotton Grove

Fannys Fancy

Grapetree Bay

Grapetree Point

Grass Point

Great Pond

Great Pond (locality)

Great Pond Bay

Hughes Point

Madame Carty


Milord Point

Robin Bay

Rod Bay

Turner Hole

Approved by:


Charles E. Harrington, C3x5
Chief Geographer

INFORMATION ON DISSEMINATION OF PROJECT MATERIAL

CM-7718
St. Croix, U.S., V.I.

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

Brown Jacket

Aerotriangulation Photographs
Plot Report
Computer printouts
Tide computations and data
Field Control Report
Control Identification Cards (Vertical & Horizontal)
NOAA Form(s) 76-72 (List of Directions)
Photographs of Vertical Control Panels
Horizontal Observations, Vol. I and II
Wye Level Book, Vol. I
NOAA Form 76-40 (duplicate copies)
Listing of Ratio Values

Project Completion Report

BUREAU ARCHIVES

Registered Maps
Descriptive Reports

REPRODUCTION DIVISION

Reduction negative of each map

OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard

MARINE CHART DIVISION

Chart Maintenance Prints

76-40	PHOTOGRAMMETRIC BRANCH	NATIONAL OCEAN SURVEY	NOAA	DATA TAB
LISTING	PHOTOGRAMMETRY DIVISION	DEPARTMENT OF COMMERCE	USA	VERSION 782707

* SVY	TP-00009 *	* RPT UNIT	SPS,PB,ROCKVILLE,MD.*	* PAGE	1 OF 2
* JOB	CM-7718 *	* STATE	VIRGIN ISLANDS		
* PRJ	ST CROIX *	* LOCALITY	ST CROIX	* ORIGINATING ACTIVITY	
* DIM	P. RICO *	* DATE	12/06/79	* COMPILATION	

* POSITIONS DETERMINED	* NO FIELD EDIT-CLASS III MAP	* FIELD REPRESENTATIVE
* AND/OR VERIFIED BY	ROBERT RODKEY	* OFFICE COMPILER
* FIELD AND OFFICE	HENRY FELICES	* DIGITIZER
* ACTIVITIES	HENRY FELICES	* DATA PROCESSER

KEY FOR ENTRIES UNDER METHOD AND DATE OF LOCATION

* FIELD (CONT,D)

* B. PHOTOGRAMMETRIC FIELD POSITIONS** SHOW THE METHOD OF LOCATION OR VERIFICATION, DATE OF FIELD WORK AND NUMBER OF PHOTOGRAPH USED TO LOCATE AND IDENTIFY THE OBJECT.

EXAMPLE 75E(C)6042

8-12-77

OFFICE

1. OFFICE IDENTIFIED AND LOCATED OBJECTS.

THE NUMBER AND DATE (INCLUDING MONTH, DAY AND YEAR) OF THE PHOTOGRAPH USED TO IDENTIFY AND LOCATE THE OBJECT ARE SHOWN.

EXAMPLE 75E(C)6042

8-12-77

FIELD

1. NEW POSITION DETERMINED OR VERIFIED

KEY TO SYMBOLS

F-FIELD

L-LOCATED

V-VERIFIED

1-TRIANGULATION

2-TRVERSE

3-INTERSECTION

4-RESECTION

A. FIELD POSITIONS* SHOW THE METHOD OF LOCATION AND DATE OF FIELD WORK.

EXAMPLE F-2-6-L

8-12-76

* FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVATIONS BASED ENTIRELY UPON GROUND SURVEY METHODS

* PHOTOGRAMMETRIC FIELD POSITIONS ARE DEPENDENT ENTIRELY, OR IN PART, UPON CONTROL ESTABLISHED BY PHOTOGRAMMETRIC METHODS.

* NOTE: WHERE THE NAME OF AN AID INCLUDES THE IMMEDIATE GEOGRAPHIC HEADING UNDER WHICH IT IS LISTED, A DASH (-) IS USED TO INDICATE THE GEOGRAPHIC HEADING WHICH IS PART OF THE OFFICIAL NAME.

76-40
LISTING

PHOTOGRAMMETRIC BRANCH
PHOTOGRAMMETRY DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATA TAB
VERSION
782707

* SVY TP-00009 *
* JOB CM-7718 *
* PRJ ST CROIX *
* DTM P. RICO *

LANDMARKS FOR CHARTS
TO BE REVISED

* RPT UNIT SPS,PB,ROCKVILLE,MD.*
* STATE VIRGIN ISLANDS *
* LOCALITY ST CROIX *
* DATE 12/06/79 *
* ORIGINATING ACTIVITY *
* COMPILATION *
* PAGE 2 OF 2 *

* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *

DESCRIPTION

POSITION CMD * METHOD AND DATE

RECORD REASON FOR DELETION

LATITUDE DM

ALTEK* OF LOCATION

PUT TRIANGULATION NAMES IN ()

LONGITUDE DP

DGTZD* OFFICE * FIELD

* CHARTS *
* AFFECTED *

* SIGHT * (SIGHT MILL 1919)

* 17 44 31.23 960.1 NOT *772(C)9332*

* 64 39 42.93 1264.8 DGTZD* 11/14/77 *

* TOWER * (COTTON GROVE MILL 1919)

* 17 43 56.87 1748.3 NOT *772(C)9246*

* 64 38 10.92 321.7 DGTZD* 11/14/77 *

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SUPPLEMENTAL DATA

LISTING OF "OBSTRUCTIONS"

The position for all obstructions listed is a photogrammetric position. Information as to the probable identity and other pertinent facts are furnished for each obstruction.

The listing is organized according to pertinent TP sheet.

TP SHEET	GEOGRAPHIC POSITION		PROBABLE IDENTITY	REMARKS
TP-00001	17-43-34.29	64-53-18.46	buoy	above MLW
TP-00001	17-46-18.82	64-52-34.43	(manmade object)	6-12 ft. of water
TP-00002	17-45-57.85	64-49-51.43	(manmade object)	@ MLW
TP-00002	17-47-13.21	64-47-18.12	buoy	above MLW
TP-00002	17-46-32.72	64-45-35.94	none available	@ MLW
TP-00002	17-46-31.56	64-45-36.03	none available	@ MLW
TP-00002	17-46-57.40	64-45-25.27	buoy	above MLW
TP-00002	17-46-57.45	64-45-24.15	buoy	above MLW
TP-00002	17-46-53.04	64-45-09.90	buoy	above MLW
TP-00002	17-46-42.39	64-45-09.08	buoy	above MLW
TP-00002	17-46-41.99	64-45-09.00	buoy	above MLW
TP-00005	17-44-53.60	64-34-13.43	buoy	above MLW
TP-00005	17-44-58.60	64-34-23.97	buoy	above MLW
TP-00006	17-42-12.24	64-53-12.59	(object on bottom-less than six ft. of water)	
TP-00006	17-41-15.06	64-51-46.07	(manmade object)	@ MLW
TP-00007	17-40-37.35	64-47-41.56	buoy	above MLW
TP-00007	17-41-49.84	64-47-17.35	snag	@ MLW
TP-00007	17-41-47.37	64-47-14.55	snag	@ MLW
TP-00007	17-41-46.75	64-47-14.46	snag	@ MLW
TP-00007	17-41-47.33	64-47-13.82	snag	@ MLW
TP-00007	17-41-51.02	64-47-09.30	snag	@ MLW
TP-00007	17-41-47.72	64-47-08.87	snag	@ MLW
TP-00007	17-41-48.13	64-47-07.27	snag	@ MLW
TP-00007	17-41-51.47	64-47-00.77	snag	@ MLW
TP-00007	17-41-50.32	64-46-43.82	pile	above MLW
TP-00007	17-41-49.70	64-46-43.11	pile	above MLW
TP-00007	17-41-09.11	64-46-32.28	buoy	above MLW

SUPPLEMENTAL DATA

LISTING OF "OBSTRUCTIONS"
(continued)

<u>TP SHEET</u>	<u>GEOGRAPHIC POSITION</u>	<u>PROBABLE IDENTITY</u>	<u>REMARKS</u>
TP-00007	17-42-33.13 64-46-15.28	pile	above MLW
TP-00007	17-42-26.41 64-46-12.55	buoy or pile	above MLW
TP-00007	17-42-25.47 64-46-10.67	buoy or pile	above MLW
TP-00007	17-41-53.27 64-45-21.39	buoy	above MLW
TP-00007	17-41-51.50 64-45-21.18	buoy	above MLW
TP-00007	17-41-52.61 64-45-20.62	buoy	above MLW
TP-00007	17-41-50.45 64-45-19.80	buoy	above MLW
TP-00008	17-42-10.05 64-42-07.96	buoy	above MLW
TP-00008	17-42-12.40 64-42-06.76	buoy	above MLW
TP-00008	17-42-14.53 64-42-00.17	buoy	above MLW
TP-00008	17-42-24.93 64-41-31.51	buoy or marker	above MLW
TP-00008	17-42-15.33 64-41-30.09	buoy	above MLW
TP-00008	17-42-25.22 64-41-30.22	buoy or marker	above MLW
TP-00008	17-42-46.26 64-40-11.15	buoy	above MLW
TP-00008	17-42-48.97 64-40-08.82	buoy	above MLW
TP-00009	17-42-49.89 64-39-53.81	buoy	above MLW
TP-00009	17-42-51.79 64-39-48.90	buoy	above MLW
TP-00009	17-42-48.94 64-39-47.60	buoy	above MLW
TP-00009	17-42-56.29 64-39-47.23	buoy or marker	above MLW
TP-00009	17-42-49.99 64-39-44.33	buoy	above MLW
TP-00009	17-42-57.73 64-39-43.45	buoy or marker	above MLW
TP-00009	17-43-12.73 64-37-57.63	buoy	above MLW
TP-00009	17-44-25.54 64-35-26.12	buoy	above MLW