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 NoTP-0000]
Classification No. Class III Edition Nolst* Two Parts
LOCALITY
_{State} Saint Croix, Virgin Isalnds
General Locality Northwest Coast
Locality Frederiksted to Davis Beach
••••••
19 77 TO 19
REGISTRY IN ARCHIVES
DATE

ÀU,S. GOVERNMENT PRINTING OFFICE: 1973-761-77

 $\mbox{\ensuremath{\star}}$ This map edition will not be field edited.

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	survey TP-00001 (2 Parts)
	X ORIGINAL	MAP EDITION NO.
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III
	REVISED	јов Рн - <u>СМ-7718</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Photogrammetry Division (Rockville)	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL D	MAP CLASS
Cdr. Walter S. Simmons	RESURVEY	SURVEY DATES:
Cut, twatter 5, 5 minors	1	
I. INSTRUCTIONS DATED		
1. OFFICE	 	FIELD
Instructions-OFFICE-Job CM-7718, Chart Compilation and Photobathymetry, St. Croix, Virgin Island, 8/21/78.		OGRAPHY-Job CM-7718 and Photobathymetry, Island, 10/26/77
Instructions-AEROTRIANGULATION-Job CM-7718 Chart Compilation and Photobathymetry, St. Croix, Virgin Island, 8/3/78	Instructions-FIEL Shoreline Mapping St. Croix, Virgin	and Photobathymetry,
II. DATUMS		
I. HORIZONTAL: 1927 NORTH-AMERICAN	OTHER (Specify)	Rico Datum
	OTHER (Specify)	KICO Da cum
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION	4.	GRID(S)
Lambert Conformal Conic	STATE Virgin Island	St. Croix
5. SCALE 1:10,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	R. Kelly	4/6/79
	R. Kelly	1 (17.7.70
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	Henry Felices N/A	4/17/79
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	Henry Felices	11/6/79
COMPILATION CHECKED BY	Gregory Fromm	"
INSTRUMENT: B-8S/ALTEK Bathymetry XXXXXXXXXXXXX	Robert W. Rodkey.	Jr. 9/20/80
SCALE: 1:10,000 CHECKED BY	G. Fromm	- 11
4. MANUSCRIPT DELINEATION PLANIMETRY BY	Henry Felices	11/9/79
<u>снескео ву</u> Bathymetry ским имимы	G. Fromm	3/13/80
Smooth Drafting & Scribing CHECKED BY	Robert Rodkey, Jr	. 9/20/80 11/25/80
I GHYMRO SUPPORT DATA BY	Robert Rodkey, Jr	
SCALE:]:]0,000 CHECKED BY	G. Fromm	11/25/80
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	N/A	
6. APPLICATION OF FIELD EDIT DATA	Field Edit Cancel	ed
CHECKED BY	N/A	
7. COMPILATION SECTION REVIEW BY	G. Fromm	11/25/80
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	G. Fromm Robert W. Rodkey,	11/25/80 Jr. 11/2/81
7. COMPILATION SECTION REVIEW BY	G. Fromm	11/25/80 Jr. 11/2/81

đ

NOAA FORM 76-36B (3-72)			NATIONAL OCEA!	NIC AND ATMOS	PHERIC ADM	INISTRATIO
	COA	MPILATION SOU	IRCES		01 (2 Pa	
1. COMPILATION PHOTOGRAPHY						
CAMERA(S) Wild RC-10(Z) Focal length=153.14mm			HOTOGRAPHY END	<u></u>	ME REFEREN	ICE
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS		(C) COLOR (P) PANCHRON		MERIDIAN	 -	X}standar
TIDE CONTROLLED PHOTOGRAPH		ļ. <u> </u>		60th		
NUMBER AND TYPE	DATÉ	TIME	SCALE		TAGE OF TIE)E
77(C)9812, 14, 16, 18,20	12/7/77	0833-0838	1;20,000	+.23	Ft. MHW	
7(C)9152-9154	11/14/77	0830-0844	1:20,000	+.19	Ft. MHW	
				,		
The stages of Tic tide gage records	de listed at	oove were de	termined fro	om "FREDER	IKSTED"	
The source of the Refer to paragrap Descriptive Repor	e mean low-w oh #35 of th	water is the ne Compilatio	on Report bo	ound with	this	
4. CONTEMPORARY HYDROGRAPHIC	SURVEYS (List of	only those surveys t	het ere sources for	nhotodrammetric	survey infor	metion.)
SURVEY NUMBER DATE(S)	SURVEY CO			DATE(S)		OPY USED
5. FINAL JUNCTIONS NORTH NO Contemporary Survey	TP-00002	SOUT!	TP-00006	* Coi	ntempora	rv Surve
REMARKS * Consist of tw	o parts - S	horeline Mar	uscript plu	s Photobat		
overlay. Fin	a Junction	was made to	both parts			

NOAA FORM 76-36C 3-72)			NATIONAL OCE	EANIG AND ATMOSPHE	T MENT OF COMMER ERIC ADMINISTRATI ONAL OCEAN SURV
	<u> </u>	IISTORY OF FIELD	OPERATIONS	t	TP-00001
. [X] F1ELD () () () () () () () () () () () () ()	KINN OPERATION	FIEL	D EDIT OPERATIO	М	
	OPERATION			NAME	DATE
. CHIEF OF FIEL	PARTY Photo Pa	rty 62	Robert S.	Tibbetts	Oct. 1977
		RECOVERED BY	R. E. Led	better	10/31/77
. HORIZONTAL CO	ONTROL	ESTABLISHED BY	<u> </u>		
	PRE-MARK	ED OR IDENTIFIED BY	R. E. Led	<u>better</u>	10/31/77
, VERTICAL CONT	T DOI	RECOVERED BY	D 5 1 - 41		70/00/77
VERTICAL CON		ESTABLISHED BY	R. E. Ledi		10/28/77 10/28/77
			N/A	be a cer	10/20/17
LANDMARKS AN	<u>.</u>	iangulation Stations) BY TED (Field Methods) BY	N/A		
AIDS TO NAVIGA		IDENTIFIED BY	N/A		
	TYPE O	FINVESTIGATION	1777		
GEOGRAPHIC NA	AMES COM				
INVESTIGATION	SPE	CIFIC NAMES ONLY			1
		NVESTIGATION	N/A		
PHOTO INSPECT	ION CLARIFIC	ATION OF DETAILS BY	N/A		
BOUNDARIES AN	D LIMITS SURVEY	ED OR IDENTIFIED BY	<u> </u>		
SOURCE DATA	NTROL IDENTIFIED		2 VERTICAL C	ONTROL IDENTIFIED	
HORIZONTAL CO	ONTROL IDENTIFIED		2. VERTICAL C	ON FOL IDENTIFIED	a.
HOTO NUMBER	STATION	NAME	РНОТО NUMBER	STATION	DESIGNATION
Z(C) 9814	Washington 1919		77Z(C) 9814	Vertical	Panel #1
C(C) 9696			77C(C) 9696	5	
, PHOTO NUMBER	S (Clarification of details)		L		
None					,
LANDMARKS AN	D AIDS TO NAVIGATION ID	ENTIFIED			
None					
HOTO NUMBER	OBJECT	NAME	PHOTO NUMBER	OBJE	CT NAME
]		
1			i	1	
			1		
-					
				<u> </u>	
GEOGRAPHIC NA		X) NONE	6. BOUNDARY A	ND LIMITS: RE	PORT NONE
SUPPLEMENTAL None	. MAPS AND PLANS				
	ECORDS (Sketch books, etc.	DO NOT list data submit	ted to the Gooden	Division\	
		DO HOT HAT UNIA GUDMIT	.og to me deodesy	Vols. I a	nd II
Field Control		n /Vontéasi se l	المستعددة المستعددة	Horizonta	l Observation
NUVA ECAMIC	entification Card	S (vertical and	norizontal)	Vol I WYE	Leveling Boo
Photographs	s) 76-72 (List of s of Vertical Con	trol Panels			- J - 5 0

NOAA FORM 76-36D (3-72)		N/	ATIONAL OCE			ENT OF COMMERCE
	RECO	RD OF SURVE	Y USE	TE	-00001 (2 Parts)
I. MANUSCRIPT COPIES						
	COMPILATION STAGE	is		D	ATE MANUSC	RIPT FORWARDED
DATA COMPILED	DATE		MARK5		RINE CHART	S HYDRO SUPPOR
Shoreline Map plus Photobathymetry map	11/25/80	· ·	Shorelir ld edit	ne		1/13/81
overlay Shoreline/Photobathyme Maps final reviewed prior to registration.	11/2/81	canceled. Class III Map. Fie canceled.			/22/82	
II. LANDMARKS AND AIDS TO NAV	/IGATION					
I. REPORTS TO MARINE CHAR	T DIVISION, NAUTICAL	DATA BRANCH				
NUMBER NUMBER ASSIGNED	DATE FORWARDED			REMARK	.5	
3 Pages	3/22/82	76-40	listing((s)		<u> </u>
2. REPORT TO MARINE CH	ART DIVISION, COAST	PILOT BRANCH.	DATE FORW	ARDED:		
3. REPORT TO AERONAUT	ICAL CHART DIVISION				FORWARDE	D:
1. X BRIDGING PHOTOGRAP 2. X CONTROL STATION IDE 3. X SOURCE DATA (except to ACCOUNT FOR EXCEP	ENTIFICATION CARDS; for Geographic Names Re	FORM NOS	5 567 SUBMIT	TED BY FI	ELD PARTIE	s.
4. DATA TO FEDERAL RE	CORDS CENTER, DAT	TE FORWARDED:	<u> </u>	/26/82	2	<u> </u>
IV. SURVEY EDITIONS (This section)			o edition is reg			
SECOND TP - DATE OF PHOTOGR	JOB NUMBE PH			REVISE	PE OF SURVE	Y Esurvęy
SURVEY NUMBER	JOB NUMBE		□n.	□m. [_	
THIRD TP.			n	REVISE	D R	ESURVEY
SURVEY NUMBER	JOB NUMBE	R	<u>□</u> 11.	TYP	E OF SURVE	
EDITION DATE OF PHOTOGR		IELD EDIT		1	MAP CLASS	

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.

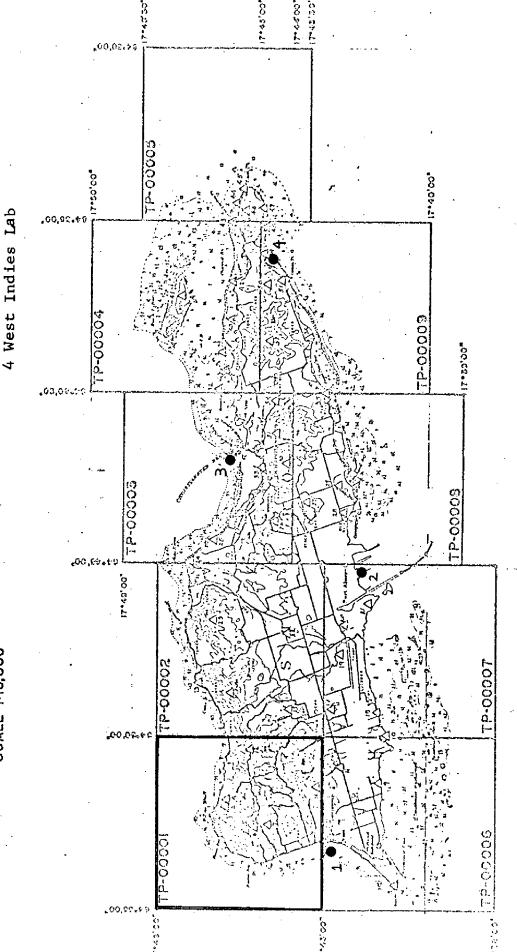
This map edition will not be upgraded. Post-compilation photogrammetric field operations were canceled July 2, 1980. Hydrographic surveying is scheduled in the area covered by this map. Field data developed to upgrade this map will be incorporated as part of the hydrographic survey and/or forwarded to 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 110,000

TIDE GAGES Frederiksted Limetree Bay Christiansted



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-7718 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 Indentification 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 Fanels 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. 3N No. 1 1475 = 3.05

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.

and the second second

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 Cil 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. Lime Tree "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 hoat

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

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,

Ronald E. Ledbetter

Approved and Forwarded:

Robert S. Tibbetts

Chief, Photo Party 62

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 photgraphy 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.

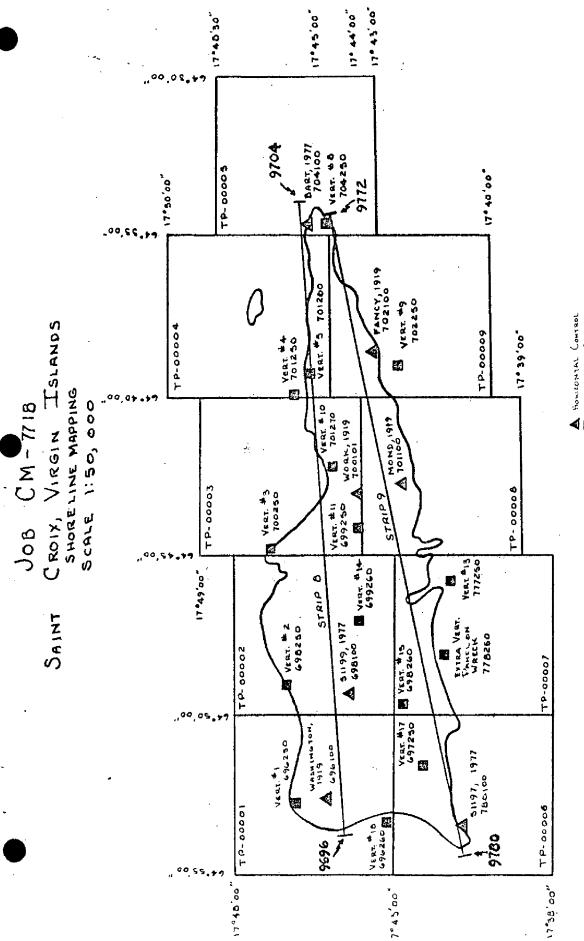
Submitted by,

Robert B. Kelly

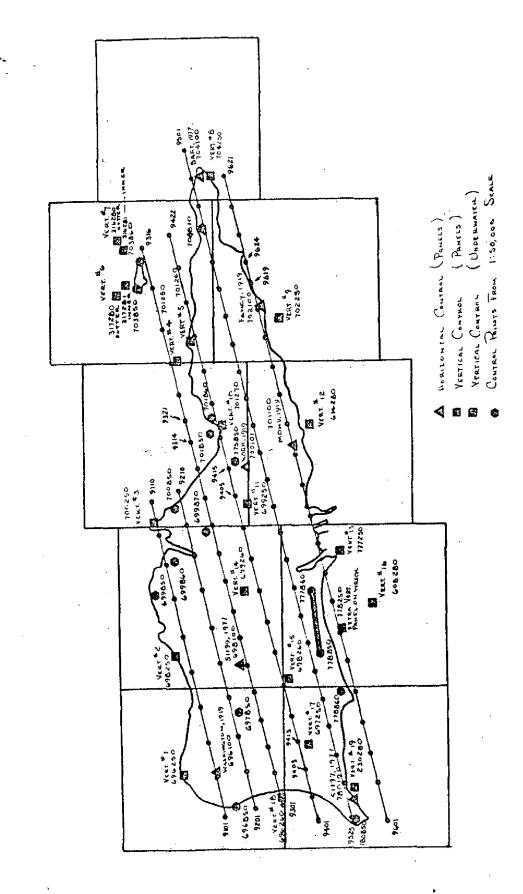
Approved and forwarded:

Don O. Norman

Chief, Aerotriangulation Section



COHYROL M HOWITONIAL CONTROL



CROIX, VIRGIN ISLANDS

SAINT

JOB CM-7718

SHORELINE MAPPING

1:20,000

SCALE

ر ا		ST. CROI	KX BLOCK :		1-5	
l		69 61 00	.9 1041445.5		2.8।ऽ 72288,765	314,779
(398100	- 1.13 1963453.9	39 1	1.2 96 68106.323	252.785
("		709101	1095536.1		- .405 66247.038	164.488
-		701110	4 1099155 . 5		506 57744.404	97.348
C .	Δ	704100	1149182.5		.3 67 75898, 1 78	224,647
€"		730100	0 1036597.7		 361 47727 . 177	3.507
•		520SSn	1007965.2	44	47434.682	658 -5.342
(~		230270	1337955.2	120	47434.093	-3.657 1 05
e^{σ}		316220	1132925.3	120	83111,322	-13.695 -095
•		3162?1	1132630.3	76	37741, 350	-7.795
(316280	1132925.4	13	33111.773	-9,617
(316281	1132590.4	107	87/41.592	-5.498 1. 693
		317220	1,27533.8	314	89807,280	-18.693
(317221	1125468.0	75	89453.375	-9.834
		317250	1127638.	317	39337.135	· >13.162
		317291	1128468.	0 6 5	89253,322	-6.780 .123
<u>{</u>		518290	1065094.1	072	55981,191	63,923 - 2.116
1		518291	1572621.	038 280	55947,163 . 445	20.504 404
	$\triangle \Box$	596250	1039963.		79110,146	10.317
ť,	$\triangle \Box$	596260	1937A35.	121	59513.124	7.457 .101
(597250	1047295.	491	54539.798 . 280	92 . 256 - • 139
] 69 92 50	1062934.		79692 ,5 74	23.099 111
ť		398260	1059231.		59378,303 . 053	109.294 13 8
Ĺ		399250	1090260.		65646,566 1. 352	190,612 - 2,880
	Ā .··-	399260 -		119	65270.776 031	144.622
] 700 2 50	1086758.	110	33998.650 1 65	11.243 .038
(,] 731250	1114681. - 1.	615	78844. 112 . 208	653
· ·	-	7 <u>01260</u>	1118973.	029	77741.51.7 • 280	
C.	\triangle [701270	1103392.	051	70353.391	1.912

)	. 045	336	985
c	△ □ 704250	1149094.536	75067.192	14.305
4	778250	- 1. 827 10-7233.315	249 51480.005	- 1.7 40 2.760
C	696850	1036002.220	69419.714	25.222
C	6 97 650	1652832,325	69544,308	529,718
	69935,0	1071973.676	84956.702	6.458
0	699867	1076209.588	80536.579	869,863
C.	699870	1084531.749	73684.116	493.606
•	7 00850	1009481.069	80913.623	36.273
C	701850	1102127,630	73141.771	30 . 993
(701860	1105201.615	74:53.706	12,920
	7 03850	1125132.932	87209.159	4.583
•	A 703840	.068 1133 9 80.507	. <i>0</i> 65 66765.531	-2.151
	7 64873	14395,3.641	75/27.153	72.430
•	775550	1098421.955	67833.508	254,501
•	7 77850	1072500.330	55570,167	21.140
•	773850	1065294.530	5 5/02,635	60.712
	. 7303°ù	1032592.315	47072,005	7.900
(-	CV50 COMLL=	: 00047		

C:

():

€

C

T

(:

C

(ST. CRO	IX BLOCK STE	RIFS 2"6	
	△ 696100	<i>+ ,267</i> 1041445,737	+.777 72236 . 727	814.779
C). -	884 1063454 .194	#.238 63105,270	252,849
G	700101	039 1096686,273	4 50 66246.993	163.136
		289 1099155.711	089 57744.911	97.357
O	702100	/ <i>65</i> 1124017.685	+ 2,382 63720.752	245.739
C		/28 1149182,525	<i>+ .407</i> 75898 • 18	225.162
C		<i>196</i> 1036597.625	47727.316	3,396
•	□ 230220	1037855,168	47434.722	+ .264 -6.236
€.~	230280	1037855.146	47434,742	+3,903
 .	316220	1132925.395	88111,746	+ 1.899 -11.901
C	315221	1132690,464	87741,487	+ 1.706 -5.994
(316280	1132925.435	85111.706	-7.823
	316281	1132690.488	87741.549	-3.697
	317220	1127639,132	89807,327	-1.849 -18.849
-	□ 317221	1128468,422	89253,352	4 ./78 -9.522
•	317280	1 ₁ 27639,135	89807.185	-13.315
{	317281	1128468,410	89253,297	-6.464
(518290	1065062,962	55078,400	+,141 60.941
	518291	1072621,216	55944.896	- 2.3/3 20.307
(□603220	1069695.773	46442.589	+ .576 -11.224
(608280	1069695.752	46442.602	-7.743
	□614220	1103112.779	55645.407	04/ -5.141
O	614280	1103112,761	55645,419	-3.392
O	△ 🗆 6962€0	# .#07 1037685.157	- <i>05/</i> 59513,066	<i>227</i> 7.319
	69 72 50	- 4.460 1047234.683	-/.307 54538 , 93 <u>2</u>	+ 080 92 . 235
C.	△ □ 698250	#. 226 1062035.021	- ,096 . 79692.390	4./64 23.402
€ ●	□ 6 98260	- 1.916 1059279,893	- 1.5/8 59376.920	+ 068 109.473
~	□ 699250	7 602 1090260.919	- 1 <i>50</i> 65646,363	- 1. 189 188.961
C	699260	<i>4,711</i> 1075362.659	+ .220 65269 . 644	- 4.04/ 143.461

	△ □700250	086 1086788.128	→,077 83998 , 188	4/3 10.512
	△ □701250	1114681,957	73844.794	008 1.162
. —	70126	-1,271 1118873,491	<i>+ .167</i> 77741,276	296 5.964
	∆ 701270	<i>+ .03/</i> 1103892:079	<i>+ ,230</i> 72853,331	- 1.354 .684
,	△ □ 702250	1122402,658	<i>+ ./9/</i> 61410.138	+ 083 8.483
C	□ 704250	<i>+ .104</i> 1149094.745	- / <i>69</i> 75067:359	- 272 15:018
_	777250	- /00 1080994:736	- <i>114</i> 49930.826	- 28/ 2,909
-	□ 778250	- 2.58+ 1067232,554	-3.3 42 51176.912	- 3/3 4.187
	696850	1036002,131	2.687 69418.130	27,227
ar.	697 850	1052331.097	2.5/6 69544.703	528,264
	699860	5.003 1076210.180	/ <i>.563</i> 80534 , 719	870.781
<u>:</u>	699870	3,322 1084531,948	73683 . 22	492,462
> ·-	700850	1.767 1069481,416	. 979 -80916,237	38.123
~ .	701850	. <i>700</i> 1102127,615	73141./42	37.615
<i>i</i>	701860	1105201.635	74453.669	41,784
<u> </u>	703850	2.262 1128033,252	97209,693	4.915
	△ 703860	.092 1133960,531	86765.519	055
C	704801	1143164,015	76530,799	22,196
(704802	1145038,727	72954.481	41.698
	704870	5.020 1139568,385	75727.809	7 6. 2 52
C	775850	1098422.015	67833.459	253.228
€.	777850	1072608,389	3.149 55867.614	20,555
	778850	2.22# 1065293,613	55099:876	69,753
C	778860	2.8/2 1055636,967	7:3/2 49679.867	20.135
ο.	780850	/, 702 1032591,908	2.825 47076,127	8.561
	CARD COUNT=	00055		

(

LISTING OF PATIO VALUES CM7718 St. Croix, USVI

Ratio Values for natural color photography to acheive 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 9231 - 2.02X FAGE 10#1

				YAGE	10+1
NOAA FORM 76-41 (6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO. TP-00001	200 NO. 7718	81	GEODETIC DATUM	Photogramety L	in (Rockwile)
STATION NAME	SOURCE OF INFORMATION	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
HAM BLUFF LIGHT HOUSE, 1919	1, 12 1, 2, 2,		χ= Ψ=	67	3 13
1 ~	4.2 104	202402	= <i>h</i>	1 😽 .	1
PRUSPERTY CHIMMEY,	1. 18 J	2W402	χ= Ψ=	1 19	
SPRAT HALL MILL,	25. F. O. J. F. F. O. J. F.	201401	=ħ	\$ 17-44-30.437 \$ 64-53-23.761	3
BUTLEBERY MILL,	5.2. 17.19	202403	z/s	4 17-44-54,750 2 64-53-35,490	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
NORTH SIDE ESTATE	17.2. 1919		χ= <i>y</i> =	\$ 17-45-38,230 \$ 64-53-19,600	
BADKIN MILL, 1919	J. 20 J. D. J.	1 0/+507	χ= η=	\$ 17-45-10.300 . > 64-50-18.243	Approves from photos
W/ASHINGTON, 1919	P.C., P3 GP., P.103	001969	χ= Λ=	45-	, Accounted 1977
·	,		=h	φ	
			=h	φ γ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY THE FALLY HAND PLOTTING BY	×	DATE	LISTING CHECKED BY HAND PLOTTING CHECKED BY		DATE 5/2/79 DATE
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

Compilation Report TP-00001

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 77-Z(C) 9265-9280, also 1:20,000, 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. <u>C</u>ontrol

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 (0A/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 reefs depicted represent the approximate mean low-water line and were compiled using underwater contouring compilation methods. Vertical control for this compilation was furnished by field methods and the photogrammetric plot.

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 reef lines depicted on the base shoreline map represent the zero depth curve (MLW). Discrete depths were compiled in digital form and then processed through a series of computer sofeware 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 and non-floating aids identifiable on the compilation photography.

The landmarks and fixed aids 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. Inapplicable

46. Comparison with Existing Maps

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

Frederiksted, 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 25644, scale 1:20,000, 8th Edition, dated 5/6/78

Items to be applied to Nautical Charts immediately - None

Items to be carried forward - None

Submitted by,

Henry Felices

Approved and Forwarded:

John A. Mooney, Jr.

Chief, Special Projects Section

(Rockville)

Photogrammetry Division

TP-00001 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, J

Final Reviewer

Approved for Forwarding by:

Approved by:

George M. Ball Walter S. Simmons

Chief, Photogrammetric Branch Chief, Photogrammetry Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7718 (St. Croix, Virgin Islands)

TP-00001

Annaly Bay

Hams Bluff

Butler Bay

La Grange

Butler:Bay (locality)

Maroon Hole

Caribbean Sea

North Side

Davis Beach

Prosperity

Fort Frederik

Sprat Hall

Frederiksted

Sprat Hole

Hams Bay

William

Hams Bay (locality)

Approved By:

Charles E. Harrin 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

	TOTAL TERMS OF COMPLETE COST.
	AGE 1 OF NATING ACTI COMPILATION
TERMINED ** FIED BY ** OFFICE **	FIELD EDIT-CLASS III MAP ** FIELD REPRESENTATIVE ENRY FELICES ** OFFICE COMPILER ENRY FELICES ** DATA PROCESSER
KEY FOR ENTRIES D AND LOCATED OBJECT ATE (INCLUDING MONTH PHOTOGRAPH USED TO ATE THE OBJECT ARE S 042	R METHOD AND DATE OF LOCATION * FIELD(CONT+D) * B.PHOTOGRAMMETRIC FIELD POSITIONS** THE METHOD OF LOCATION OR VERIFICA * GRAPH USED TO LOCATE AND IDENTIFY * OBJECT* * EXAMPLE P-8+V * EXAMPLE P-8+V * T4L(C)2982
EW POSITION DETERMINED OR VERIFIED EY TO SYMBOLS -FIELD -LOCATED -VERIFIED -TRIANGULATION -TRIAN	* 2.TRIANGULATION STATION RECOVERED * WHEN A LANDMARK OR AID WHICH IS ALSO A TRI * ANGULATION STATION IS RECOVERED. A TRIANG. * * REC. WITH DATE OF RECOVERY IS SHOWN. * EXAMPLE TRIANG. REC. * *
3-INTERSECTION 7-PLANETABLE 4-RESECTION 8-SEXTANT A.FIELD POSITIONS* SHOW THE METHOD OF LOCATION AND DATE OF FIELD WORK. EXAMPLE F-2-6-L 8-12-76	* 3.POSITION VERIFIED VISUALLY ON PHOTOGRAPH * SHOWN BY V-VIS AND DATE. * EXAMPLE V-VIS * * * * * * * * * * * * * * * * * * *
FIELD POSITIONS ARE DETERMINED BY FIELD OBSERVATIONS BASED ENTIRELY UPON GROUND SURVEY METHODS	D * **PHOTOGRAMMETRIC FIELD POSITIONS ARE ** D ** DEPENDENT ENTIRELY+OR IN PART+UPON CONTROL * ESTABLISHED BY PHOTOGRAMMETRIC METHODS. *

VERSION 782707	OF 3 * ACTIVITY* ATION *	LANDMARKS *	* CHARTS * AAFFECTED*		* 522640 * 25640 * * 25641		* *	K W W 4		* *	* * *	* * *	
	PAGE IGINATI COMP	ALUE AS	AND DATE CATION * FIELD										
SURVEY NOAA COMMERCE USA	5	THEIR	METHOD A OF LOC OFFICE, *		72(C)9816* 12/07/77 *		* * *						1 * *- 1 1 1 1 1 1 1 1 1
	SL	ET	CMD * ALTEK* DGTZD*	***	3 NOT *77.		* *		# ** ** ** ** ** ** ** ** ** ** ** ** **	* *	* *		† ** ** ** ** - - -
NATIONAL OCEAN DEPARTMENT OF	UNIT STATE ALITY DATE	S	POSITION ITUDE DM	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.98 491 6.63 489		•						
CH	* RPT HARTS * * LOC	PECTED FROM	LATITU		17 46 1		M M		; ; ; ; ;		м м		: : : : : : :
DIVIS	OR C ED	BEEN INS	LETION SIN ()	1 7 7 1	1919)								
PHOTOGRAMMETRIC PHOTOGRAMMETRY	LOATIN	HAVE	DESCRIPTION CCORD REASON FOR DELETION TRIANGULATION NAMES IN (SAINT CROIX						,			
	0001 * 718 * ROIX * ICO *	90	* RECORD RE/ * PUT TRIANGU		HAMS BLUFF		•			- 1			
76-4 LISTING	 >02F >04F		CHARTING*	**	H * H9I7	* *	* *	* *	* *		* *	* *	* *

HOTOGRAMMETRY DIVISION		OF 3 ACTIVIT	ANDMARI	* CHARTS	1 1	4: ±	2	Ė		90	* DITTO	i	i E	:	* *
HOTOGRAMMETRIC BRANCH HOTOGRAMMETRY DIVISION * RPT UNIT SPS LANDMARKS FOR CHARTS * LOCALITY ST * LOCALITY	EAN SURVEY OF COMMERC	B.ROCKVILLE.MD.* PAGE 3 N ISLANDS * *ORIGINATING /79 * COMPIL	DETERMINE THEIR VALUE AS L	CMD * METHOD AND DAT LTEK* OF LOCATION GTZD* OFFICE * FIE		DGTZD* 11/14/	*772(C)915 * 11/14/77	NOT *772(C)915 DGTZD* 11/14/77	NOT *772(C)981 DGTZD* 12/07/77	NOT *772(C)9812 DGTZD* 12/07/77	NOT #772(C)981 DGTZD* 12/07/77	NOT *772(C)981 0GTZD* 12/07/77	*772(C)981 * 12/07/77	*772(C)981 * 12/07/77	* *
HOTOGRAMMETRIC BRANCH HOTOGRAMMETRY DIVISION LANDMARKS FOR CHARTS TS HAVE NOT BEEN INSPE SCRIPTION ASON FOR DELETION ** CHIMNEY 1919) ** CHIMNEY 1919) ** CHIMNEY 1919) ** CHIMNEY 1919) ** CHIMNEY 1919) ** CHIMNEY 1919) ** REFL BEACON ** REFL BEACON **	TIONAL	T UNIT SPS. STATE VIRG CALITY ST C DATE 12/0	TED FROM SEAWARD T	POSITION ATITUDE D ONGITUDE D		4 52 42.53 1253.	7 43 13.85 425. 4 51 27.86 820.	7 43 40.58 1247. 4 53 01.95 57.	7 44 30.44 935. 4 53 23.76 700.	7 44 54.75 1683. 4 53 35.49 1045.	7 45 38.23 1175. 4 53 19.60 577.	7 45 10.31 517. 4 50 18.24 537.	7 46 04.61 141. 4 52 50.54 1488.	7 44 16.02 492. 4 53 52.70 1552.	
	PHOTOGRAMMETRIC BRANCH PHOTOGRAMMETRY DIVISION	FOR CHART REVISED	CTS HAVE NOT BEEN INSPE	PTION FOR DELETION ON NAMES IN (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CHIME	OWER	ITY CHIMNEY	HALL MILL 1919)	S BAY MILL 1919	IDE ESTATE MILL	MILL 1919)			# #

))		RWR
		MAP FEATURES	Ö	POSSIBLE LANDMARK VALUE	ប្រ	8/81
MAP NO.	JOB NO.	GEOGRAPHIC AREA	REA	GEODETIC DATUM	ORIGINATING ACT	E-
TP-00001	CM7718	St. Croix, USV	VI	Puerto Rico	SPS - ROCKVILLE, (Compilation)	lle, Md. n)
-	DESCRIPTION		PHOTO NUMBER	PLANE COOR. (FT) STATE PUETTO RICO ZONE St. Croix (5202)	GEOGRAFHIC POSITION	CHARTS AFFECTED
	Tower		772 (8) 91 52	X 1,039,090,637 Y 62,725,126	φ 17-43-27.83 λ 064-53-03.28	25641
Radic (refer to	Radio Tower - RCA (refer to C.L.#L-633/	A./79)	772 (C) 9812	X	17-44-32	ditto
	Tower		772 (C) 9816	X 1,043,475,328 Y 79,661,388	17-46-15	ditto
J	01d M111		772 (C) 9816	X 1,046,660 502 Y 75,171,501	φ 17-45-30.59 λ 064-51-43.87	dirto
0	Old Mill		77Z (C) 9818	173.	• • •	ditto
					φ (
				X	φ.	
				×	φ 	
			,	×	φ	
				×	φ •	
				××	Φ ~	
				X	φ λ	
POSITIONS	IONS FURNISHED	ARE	PHOTOGRAMMETRIC P	POSITIONS - MAP FEATURES	HAVE NOT BEEN	INS PECTED
LISTED BY			DATE		I	DATE 9/8/81
*	Robert W. Ro	Rodkey, Jr.	19/1/81	Kobert W. Koakey,	JI.	2/0/07

CM7713 ST.CROIX,USVI

SUPPLEMENTAL DATA

LISTING OF "OBSTRUCTIONS" (continued)

TP SHEET	GEOGRAPHIC P	OSITION	PROBAB	LE IDEHITY	REMAR	KS
	_					
TP-00007	17-42-33.13	64-46-15.28	pile		above	
TP-00007	17-42-26.41	64-46-12.55	buoy of	r pile	above	ML^{ω}
TP-00007	17-42-25.47	64-46-10.67	buoy or	r pile	above	MLW
TP-00007	17-41-53.27	64-45-21.39	buoy		above	MIM
T2-00007	17-41-51.59	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 o	r marker	above	MIM
TP-00008	17-42-15.33	64-41-30.09	buoy	-	above	MLW
TP-00008	17-42-25.22	64-41-30.22	buoy of	r marker	above	MLW
TP-00008	17-42-46.26	64-40-11.15	bu o y		above	MLW
TP-00008	17-42-48.97	64-49-93.82	buoy		above	MLW
	•					
TP-00009	17-42-49.89	64-39-53.81	buoy		above	MIM
TP-00009	17-42-51.79	64-39-48.90	b uoy		above	MLW
TE-00009	17-42-48.94	64-39-47.69	bu oy		above	MLW
TP-00009	17-42-56.29	64-39-47.23	buoy or	r 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 of	r marker	above	MLW
TP-00009	17-43-12.73	64-37-57.63	bu oy		above	MLW
TP-00009	17-44-25.54	64-35-26.12	pnoa		above	MLW

CM7718 ST.CROIX,USVI

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 P	<u>OSTTION</u>	PROBABLE IDENITY	REMARKS
TP-00001	17-43-34.29	64-53-18.46		above MIW
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	b uoy	above MLW
TP-00002	17-46-32.72	64-45-35.9 4	none available	@ MLW
TP-00002	17-46-31.56	64-45-36.03	none available	6 MIN
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	bu oy	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	bu oy	above MLW
11 00000	17 77 30.00	0-7 3 T 23.37	Dudy	
		· = · -	¥.¥	
TP-00006	17-42-12.24	64-53-12.59	(object on bottom	n-less than
		· = · -	¥.¥	n-less than
TP-00006	17-42-12.24	64-53-12.59 64-51-46.07 64-47-41.56	(object on bottom six ft. of water	n-less than
TP-00006	17-42-12.24 17-41-15.06	64-53-12.59 64-51-46.07	(object on bottom six ft. of water (manmade object)	n-less than () () MLW
TP-00006 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35	64-53-12.59 64-51-46.07 64-47-41.56	(object on bottom six ft. of water (manmade object)	n-less than () () () () () () () () () (
TP-00006 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35	(object on bottom six ft. of water (manmade object) buoy snag	n-less than () () () () () () () () () () () () ()
TP-00006 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55	(object on bottom six ft. of water (manmade object) buoy snag snag	a-less than () () () () () () () () () () () () ()
TP-00006 TP-00007 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37 17-41-46.75	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55 64-47-14.46	(object on bottom six ft. of water (manmade object) buoy snag snag snag	n-less than () () () () () () () () () () () () ()
TP-00006 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37 17-41-46.75 17-41-47.33	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55 64-47-14.46 64-47-13.82	(object on bottom six ft. of water (manmade object) buoy snag snag snag snag	a-less than @ MIW above MIW @ MIW
TP-00006 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37 17-41-46.75 17-41-47.33 17-41-51:02	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55 64-47-13.82 64-47-09.30	(object on bottom six ft. of water (manmade object) buoy snag snag snag snag snag snag	a-less than @ MLW above MLW @ MLW
TP-00006 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37 17-41-46.75 17-41-47.33 17-41-51.02 17-41-47.72	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55 64-47-13.82 64-47-09.30 64-47-03.87	(object on bottom six ft. of water (manmade object) buoy snag snag snag snag snag snag snag	a-less than @ MIW above MIW @ MIW
TP-00006 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37 17-41-46.75 17-41-47.33 17-41-51.02 17-41-47.72 17-41-48.13	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55 64-47-13.82 64-47-09.30 64-47-03.87 64-47-07.27	(object on bottom six ft. of water (manmade object) buoy snag snag snag snag snag snag snag snag	a-less than @ MIW above MIW @ MIW
TP-00006 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007 TP-00007	17-42-12.24 17-41-15.06 17-40-37.35 17-41-49.84 17-41-47.37 17-41-46.75 17-41-47.33 17-41-51.02 17-41-47.72 17-41-48.13 17-41-51.47	64-53-12.59 64-51-46.07 64-47-41.56 64-47-17.35 64-47-14.55 64-47-13.82 64-47-09.30 64-47-09.30 64-47-07.27 64-47-00.77	(object on bottom six ft. of water (manmade object) buoy snag snag snag snag snag snag snag snag	a-less than () () () () () () () () () (