T-12939

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey SHORELINE								
Job No PH-6504 Map No. T-12939								
Classification No. Final Edition No								
FIELD EDITED MAP								
LOCALITY								
State VIRGIN ISLANDS								
General Locality SAINT THOMAS								
Locality HANS LOLLIK ISLAND.								
,								
19 71 T O 1975								
REGISTRY IN ARCHIVES								
DATE								

♥ U.S. GOVERNMENT PRINTING OFFICE: 1972-761-152



NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE (NATIONAL OCEANIC AND ATMOS PHERIC ADMIN	TYPE OF SURVEY	SURVEY TF. 12939
	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final (F.E.
	REVISED	JOB РН. 6504
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division (Rockville)		
Coastal Mapping Division (Norfolk)	TYPE OF SURVEY	JOB РН
OFFICER-IN-CHARGE		MAP CLASS
Wesley V. Hull (Rockville)		SURVEY DATES:
Jeffrey G. Carlen (Norfolk)	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Control of the second	0 1 10 1071	
GON. 421 - RESUST	Oct 18, 1971	
Dec 14, 1971 Aerotriangulation	Nov 15, 1972 -	Supplement I
Jan. 25, 1972 Compilation		
Nev. 15, 1972 Compilation Supplement I		
Hov. 1), 1) 12 Compiled out of promotion		
II. DATUMS	larum a	
1. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)	
	Puerto Rico Da	tum
X MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION		RID(S)
	STATE	ZONE Virgin
Lambert Conformal Polyconic	Puerto Rico	Islands Extension
5. SCALE	STATE	ZONE
1:10,000 III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	D. Norman	Jan 1974
METHOD: Analytic LANDMARKS AND AIDS BY	N. A.	Jul 1974
2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Phillips	Jan 1972
METHOD: Coradomat CHECKED BY	D. Phillips	Jan 1974
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	J. Taylor	Aug 1974
COMPILATION CHECKED BY	G. Fromm	Aug. 1974
INSTRUMENT: B-8 CONTOURS BY	NA NA	A08.13/4
SCALE: 1:10,000 CHECKED BY	NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	J. Taylor	Aug 1974
CHECKED BY	G. Fromm	Aug 1974
CONTOURS BY	NA	1.00 (//1
метнор: Inked снескер ву	NA	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY	J. Taylor	Aug 1974
CHECKED BY	G. Fromm	Aug 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	J. P. Battley	Sept. 1974
6. APPLICATION OF FIELD EDIT DATA	R. R. White	Aug 1975
CHECKED BY	C. H. Bishop	Nov 1975
7. COMPILATION SECTION REVIEW BY	C. H. Bishop	Nov 1975
8. FINAL REVIEW BY	C. H. Bishop	Oct 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	C.H. Bishop	Jan. 1977
	0	1 44 1
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	E. L. Rolle	March, 1977

T-12939 COMPILATION SOURC

1. COMPILATION PHOTOGRAPHY CAMERA(S) Wild RC-8 "L" & RC-10 " TIDE STAGE REFERENCE SAN JUL APPREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPH NUMBER AND TYPE 71 L(C)-854-855 71 L(C)-1155 - 1158	AN MAGENS BAY		PHOTOGRAPHY GEND	TIME REFE	RENCE
Wild RC-8 "L" & RC-10 "TIDE STAGE REFERENCE SAN JULA PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPH NUMBER AND TYPE 71 L(C)-854-855	AN MAGENS BAY	X(C) COLOR X(P) PANCHRO	GEND		RENCE
TIDE STAGE REFERENCE SAN JUL A PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPH NUMBER AND TYPE 71 L(C) -854-855	AN MAGENS BAY	X(C) COLOR X(P) PANCHRO			RENCE
X PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPH NUMBER AND TYPE 71 L(C) -854-855	BAY	X(P) PANCHRO	MATIC	ZONE	Maria Carlo Ca
REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPH NUMBER AND TYPE 71 L(C) -854-855	ıy	The state of the s	MATIC		
NUMBER AND TYPE 71 L(C) -854-855	The part Sket hard	(I) INFRARE	MATIC	Atlantic MERIDIAN	X STANDARD
71 L(C)-854-855	DATE)	60th	DAYLIGHT
		TIME	SCALE	STAGE OF	TIDE
	Nov 15, 71	9:18	1.30 000	1 2 64	
11 1(0) 1133 1130	Nov 20, 71	12:04	1:30,000		
74 Z(C)-7123 - 7129	Feb 12, 74	09:13	1:12,000	1.5 ft. above	
71 2(0) 7123 7123	Teb 12, 74	09.13	1:12,000	Zone II B	
				0.6 ft. above	
				Zone II A	
74 Z(C)-7139 - 7141	Feb 12, 74	09:18	1:12,000	0.4 ft. above	
	Feb 12, 74	09:30	1:12,000	0.4 ft. above	
	Nov 27, 71	10:45		(Bridging Only	
			1:60,000	o update MHWL o	
from 1971 photos. Stag		ased on sta	ir readings.		
3. SOURCE OF MEAN LOW-WATER OR Not mapped	MEAN LOWER LOV	W-WATER LINE:			
4. CONTEMPORARY HYDROGRAPHIC :	SURVEYS (List on	ly those surveys ti	hat are sources for p	hotogrammetric survey in	formation.)
4. CONTEMPORARY HYDROGRAPHIC : SURVEY NUMBER DATE(S)	SURVEYS (List on				formation.)
SURVEY NUMBER DATE(S) 5. FINAL JUNCTIONS		Y USED SURVE	EY NUMBER DA		COPY USED

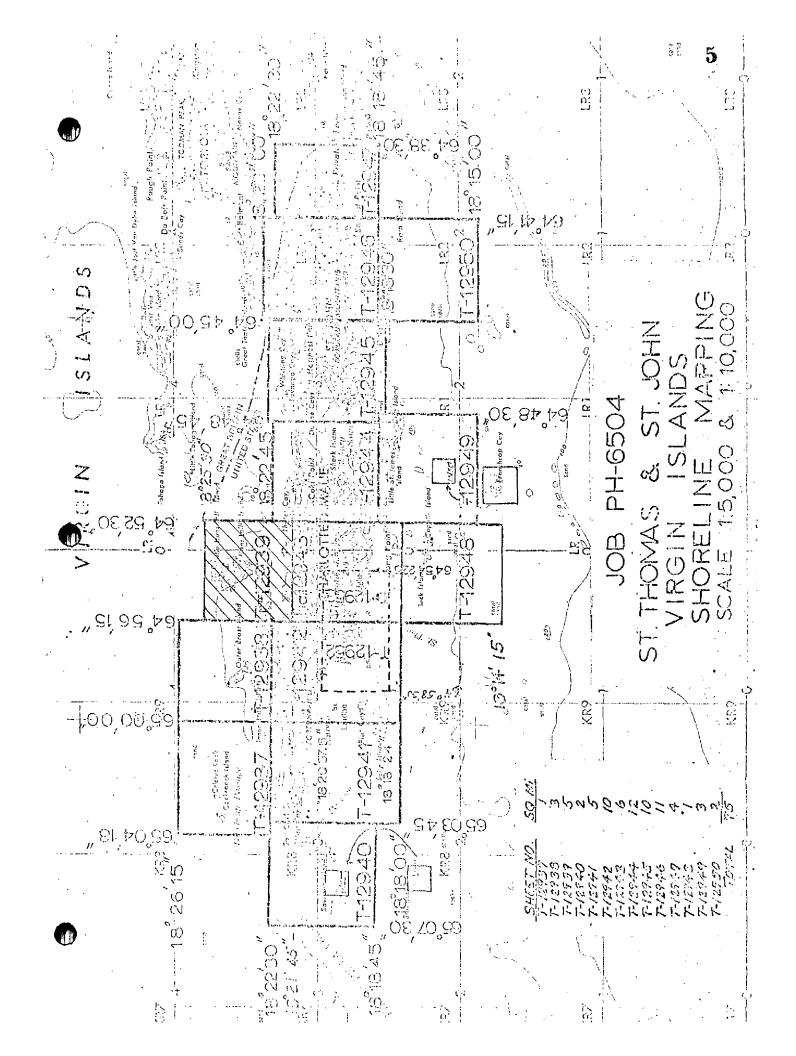
10AA FORM 76—36C 3—72)	T-12939 History of Field		NIC AND ATMOSPHERI	ENT OF COMMERC C ADMINISTRATIO AL OCEAN SURVE
I. 🙀 FIELD INSPECTION OPER	ATION FIEL!	EDIT OPERATION	<u></u>	
OPE	RATION	N	IAME	DATE
1. CHIEF OF FIELD PARTY		M.J. Umbach	1	Dec, 1972
	RECOVERED BY			
2. HORIZONTAL CONTROL	ESTABLISHED BY	V.E. Serena	·	Dec, 1972
	IDENTIFIED BY	V.E. Serena	l	Dec, 1972
	RECOVERED BY	NA		<u> </u>
3. VERTICAL CONTROL	ESTABLISHED BY	_ NA		
<u> </u>	PRE-MARKED OR IDENTIFIED BY	NA		
	COVERED (Triangulation Stations) BY	NA		_
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY			
	IDENTIFIED BY			
	TYPE OF INVESTIGATION	}		-
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE			
	SPECIFIC NAMES ONLY XX NO INVESTIGATION	1		
				
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	NA		
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	L NA		<u> </u>
HORIZONTAL CONTROL IDE	ITIFIED	2. VERTICAL CON	ITROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNA TION
71M(C) 904 PELICA	N, 1972			
3. PHOTO NUMBERS (Clarification	on of details)			
4. LANDMARKS AND AIDS TO N.	AVIGATION IDENTIFIED			
NA		Τ		·
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	TOBLEOT	NAME
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AN	D LIMITS: REPO	RT NONE
7. SUPPLEMENTAL MAPS AND				
None				
8. OTHER FIELD RECORDS (Ske	tch books, etc. DO NOT list data submit	tted to the Geodesy D	ivision)	
C.S.I. Card	~			

I FIELD INSPE	CTION OPERATION	X FIELD ED	IT OPERATION		, <u></u>
	OPERATION		1	NAME	DATE
1. CHIEF OF FIEL	D PARTY	7.	O O	122.44-	8/5/75
			bert S. Ti		Feb. 197
. HORIZONTAL C	ONTROL	ESTABLISHED BY			
	PRE-MARK	ED OR IDENTIFIED BY			
		RECOVERED BY	'A		
3. VERTICAL CON	TROL	ESTABLISHED BY			
	PŘE-MARK	ED OR IDENTIFIED BY			
	·	iangulation Stations) BY Ro	bert S. T.	ibbetts	Feb. 197
 LANDMARKS AN AIDS TO NAVIG. 		TED (Field Methods) BY		.	
	TYPE O	IDENTIFIED BY FINVESTIGATION			
5. GEOGRAPHIC N	F				
INVESTIGATION		CIFIC NAMES ONLY			
	X NO	NVESTIGATION			
6. PHOTO INSPEC	TION CLARIFIC	ATION OF DETAILS BY RO	bin D. We	lls	Feb. 197
7. BOUNDARIES A	ND LIMITS SURVEY	ED OR IDENTIFIED BY			
II. SOURCE DATA					
I. HORIZONTAL C	ONTROL IDENTIFIED			NTROL IDENTIFIED	
None		No	one		
PHOTO NUMBER	STATION	NAME PH	OTO NUMBER	\$TATION DE	SI GN A TI ON
	RS (Clarification of details) 128: 74 Z (C)7141 ID AIDS TO NAVIGATION ID	ENTIFIED		1	
None PHOTO NUMBER	OBJECT	NAME PH	IOTO NUMBER	ОВЈЕСТ	NAME
		,	· · ·		
		•			
			•		
ĺ					
5. GEOGRAPHIC N		X NONE 6.	BOUNDARY AN	D LIMITS: REPO	RT X NONE
-	L MAPS AND PLANS				
7. SUPPLEMENTA					
None		. DO NOT list data submitted t			

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

T-12939 RECORD OF SURVEY USE

I. MANUSCR	IPT COPIES			- 18 18 22 20 20				
	COI	MPILAT	ION STAGE	S			DATE MANUSCR	IPT FORWARDED
DA	ATA COMPILED		DATE	RI	MARKS		MARINE CHARTS	HYDRO SUPPOR
	tion complete field edit	Dec	, 1974	Class III	manuscri	pt	Dec. 1974	Dec, 1974
	eld Edit applied tion complete	Aug	, 1975	Superseded Class I Ma			Aug. 1975	
Final R	eview	Oct	, 1975	Final			March 1977	
	RKS AND AIDS TO NAVIGA							
I. REPOR	RTS TO MARINE CHART DI			DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED		WARDED			REMA	RKS	
1		U Dec	. 1974	Form 76-4	O for La	ndma rk	(1)	
					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
	EPORT TO MARINE CHART							
1. X B 2. ★ C 3. X S	L RECORDS CENTER DATA RIDGING PHOTOGRAPHS; ONTROL STATION IDENTIF DURCE DATA (except for Ge CCOUNT FOR EXCEPTION	E C	ON CARDS;	X FORM NO	5-567 SUBMI	TTED BY	R READOUTS. FIELD PARTIES. FORM 76-36C.	
	ATA TO FEDERAL RECOR							
v. SURVEY	EDITIONS (This section she		OB NUMBE		o edition is re		YPE OF SURVEY	
SECOND	TP		PH				ISED RES	
EDITION	DATE OF PHOTOGRAPH	Υ [ATE OF FI	ELD EDIT	□n.		MAP CLASS	FINAL
THIRD	SURVEY NUMBER		PH-			_ 1	YPE OF SURVEY	
EDITION	DATE OF PHOTOGRAPH		ATE OF FI				MAP CLASS	
	SURVEY NUMBER	300	OB NUMBE			T	YPE OF SURVEY	
FOURTH EDITION	TP - DATE OF PHOTOGRAPH		PH -		1	LREV	MAP CLASS	ÜRVĖY
20111011					□n.	□ III.	□ıv. □v.	DFINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS T-12937 THROUGH T-12950

Project PH-6504 is a shoreline mapping project which is the source of up-to-date shoreline for contemporary hydrographic surveys of the St. Thomas - St. Johns area of the U. S. Virgin Islands. Fourteen of the maps are at 1:10,000 scale and two are at 1:5,000 scale. T-12952 and T-12953 (St. Thomas Harbor, 1:5,000 scale) were compiled from 1965 photography and edited in 1966. They were final reviewed in 1967 and registered prior to compilation of the remaining maps.

This project is not to be confused with Job CM-7304, a photobathymetry project having the same scale and area limits as PH-6504. The maps were designated by the same numbers as PH-6504 maps, but as second editions (T-12937(2), etc.). As nothing but depths and curves (no shoreline) appear on the photobathymetry maps, they do not qualify as second editions or revisions. Job CM-7304 as a project was cancelled, the parenthesis 2 was removed from the map numbers, and the note "This map has the same area limit as" was added in the identification corners of the photobathymetry maps. Job CM-7304 was not registered; it was turned over to the Verification Branch, Atlantic Marine Center. See Instructions - CFFICE - Job Disposition, CM-7304, Photogrammetric Bathymetry, St. Thomas and St. John Islands, Virgin Islands, dated August 3, 1976.

Field work consisted of the recovery and premarking of horizontal control required for bridging. This was done in Cctober and November, 1971. Additional control was established on Pelican Cay (T-12939) in December 1972.

Photography flown in 1971 was used for bridging and shoreline compilation of the 1:10,000 maps.

Bridging was done by analytic aerotriangulation in Rock-ville in December 1971. Control was adequate for all sheets except T-12939. After additional control was established on Pelican Cay in December, 1972, a 3-photo strip was bridged to adequately control the Hans Lollik Island section of this map.

Compilation was done on the Wild B-8 Plotter in Rockville from January 1972 to August 1974. T-12937 and T-12940 were compiled graphically. When photobathymetry was compiled, the model scale was more favorable for viewing the shoreline: Several minor corrections were made to the mean high water line and some rocks were added. Rock elevations shown in brackets are from photobathymetry.

Field edit was done in conjunction with hydrography, mostly by a photogrammetric unit, from March 1973 to August, 1975. T-12946 and T-12947 were edited by personnel of the Ship WHITING in April 1976. Four fixed aids to navigation and eleven daybeacons (private aids) were located by field methods.

Final Review was done at the Atlantic Marine Center from September 1976 to December 1976.

The original manuscripts were stabilene sheets and varied in size. They were forwarded to the Rockville Office for preparation of Registration Copies.

PHOTOGRAMMETRIC PLOT REPORT * Virgin 1slands Job PH-6504 August 1972

21. Area Covered

This report pertains to thirteen sheets in the Virgin Islands. The sheets are T-12937, T-12938 and T-12940 thru T-12950. The area covered consists of St. Thomas Island, St. John Island and some small islands surrounding the two islands previously mentioned.

22. Method

Ten strips of photography were bridged by analytic aerotriangulation methods and adjusted to the Puerto Rico state plane coordinate system. Strip 1 (71-M-969 thru 974) and Strip 6 (71-M-953 thru 957) were 1:60,000 scale panchromatic photography. Points were established on Strip 1 to control Strips 2 thru 4 and points were also established on Strip 6 to control Strips 7 thru 10. Points were established for determining ratios. Strip 5 was a two-model bridge adjusted to ground by two control points. Strip 10 was also a two-model bridge adjusted to ground by one control point and two points established from Strip 6. Points were plotted by the Coradi plotter. Sheet T-12937 was compiled graphically in the compilation area. Sheet T-12939 was not completed due to lack of photographic control. Sheet T-12949 is to be completed in the compilation area.

23. Adequacy of Control

The control for sheet T-12939 was not adequate for compilation; however, the control for the remaining sheets was adequate.

24. Supplemental Data

Vertical control was taken from USGS topographic quadrangles.

25. Photography

The photography was adequate.

Approved and Forwarded:

John D. Perrow, Jr.

Acting Chief

Aerotriangulation Section

* See Addendum to this report on pages 13 = 14

Respectfully submitted:

Don O. Norman, Cartographer James E. Schad, Cartographer

Don C. Horman

Fit to Control (x, y) feet

A D held in adjustment

٨	1 No. 97 (cadastral survey)	- sub sta	(-	0.8,	+0.1)
. 🛕	2 FORT CHRISTIAN FLAGSTAFF,	1900 sub	sta (+	1.9,	-0.2)
	3 BLUFF, 1918				-0.6)
Δ	4 Panel on Savana Island		(+	1.4.	-0.7)

Δ	2	FORT	CHRIST	IAN FI	LAGSTAFF	, 1900	sub	sta	(+0.4,	+0.6)
		23801	. (-4.6,	-3.3)	•				·
		23802	! (-3.7.	-1.9)					
		56801		-1.5,						
		35801	. (+0.3.	+0.3)					
73		58801	. (+1.9,	+1.9)					
A	.3	BLUFF	1918	}					(-0.8,	-1.1)

STRIP #3

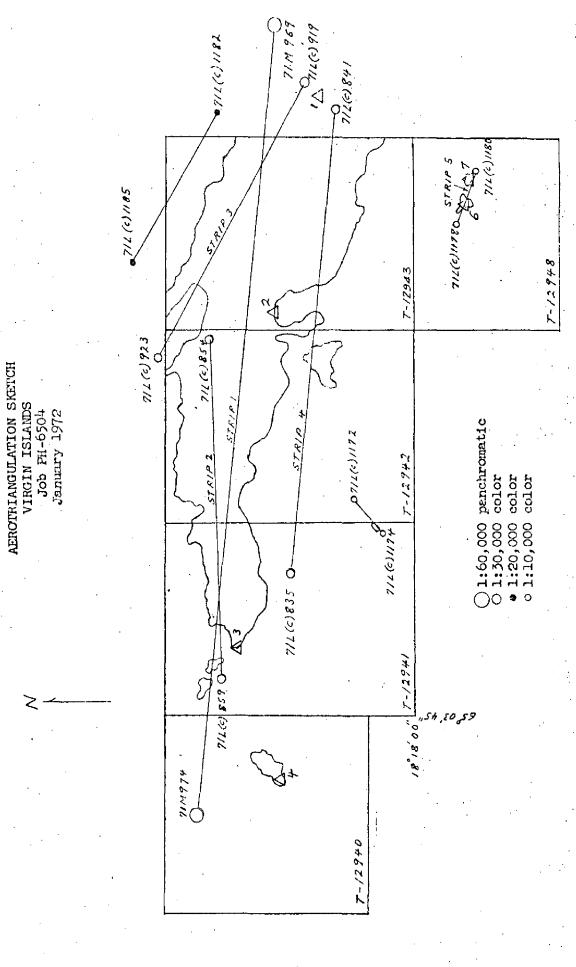
A	1.	No. 97 (cadastral survey)	sub sta	(0.0, 0.0)
		41802 (+1.7, +0.9)		
1		21801 (0.0, 0.0)		
	2	FORT CHRISTIAN FLAGSTAFF,	1900 sub sta	(+3.5, +1.4)
72		23801 (0.0, 0.0)		
		23802 (+0.5. +2.5)		

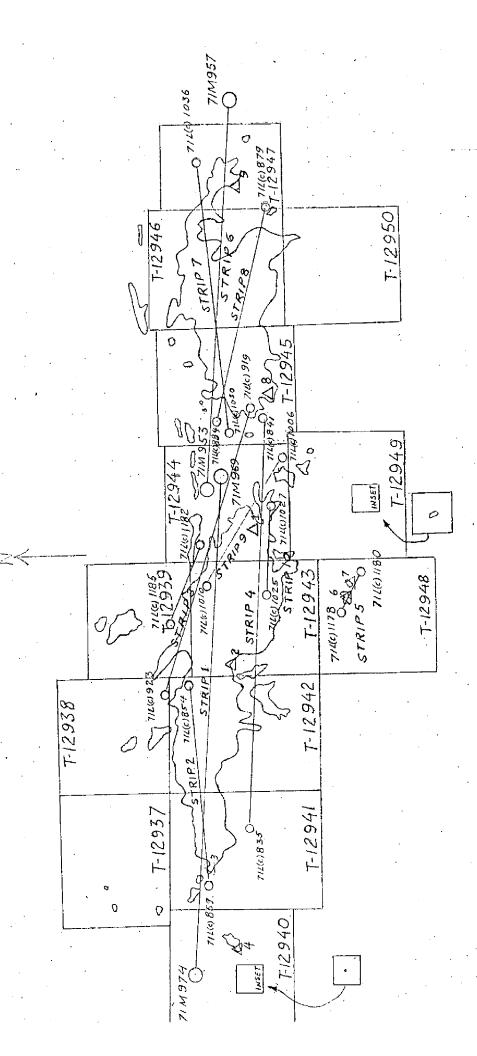
*	35801	(-0.2, 0.0)			
	35802	(-5.7, +2.0)	•		٠
	56801	(-3.8, -0.3)			
	37801	(+0.5, +0.4)	١.		
	21801	(-0.5, -0.4)	•		
	2 FORT CHRIS	TIAN FLAGSTAFF, 1900 s	ub sta	(+1.5,	+0.4)
	40801	(-3.5, +0.6)			
A	No. 97 (cada	stral survey) sub sta		(+0.2,	+0.1)
	41801	(+0.9, -1.5)			
	41802	(+2.2, -0.2)	•		

- △ 6 BUCK ECC RM, TARGET "A" ON BUCK ISLAND (0.0, 0.0)
 BUCK, 1918 (Lighthouse) (0.0, +0.2)
 △ 7 BUCK ECC RM, TARGET "B" ON CAPELLA ISLAND (0.0, 0.0)

```
STRIP #6
   \triangle 1 No. 97 (cadastral survey) - sub station ( 0.0
                                                           0.0)
   △ 8 BAKE, 1918 sub station
                                                    (0.0)
                                                           0.0)
   \Delta 9 MOORE, 1918 sub station
                                                    ( 0.0
                                                           0.0)
STRIP #7
   D 30801
                   (0.0 + 2.7)
                   (+0.8 +1.0)
   □ 33802
   p 33801
                   (-1.7 + 0.4)
                   (-2.5 + 0.9)
    36801
     36802
                   (-1.6 + 2.2)
 \Delta 9 MOORE, 1918 sub station
                                                    (+2.3 - 2.3)
STRIP #8
   p 79801
                   (-0.0 0.0)
                   (-2.5 - 0.2)
     79802
                  (+2.3 U.U.

1 0 0.0)
     79803
   D 81801
     82801
                   (+2.1 - 0.8)
    8 BAKE, 1918
                   sub station
                                                    (+3.8 - 1.7)
     84801
                   (-5.1 - 1.7)
   D 84802
                   (0.0 0.0)
     84803
                   (-1.6 - 2.1)
STRIP #9
   □ 6801
                   (0.00,0.0)
     6802
                   (+1.8 + 0.4)
     7801
                   (-0.7 - 0.1)
                   (-0.2 + 2.3)
     27801
     9801
                   (-1.8 - 0.9)
   \Delta 1 No. 97 (cadastral survey) - sub station (0.0 0.0)
     10801
                   (-1.5 +0.9)
     10802
                   (+0.4 + 0.3)
   0 21801
                   (0.0 0.0)
STRIP #10
   0 25801
                   ( 0.0 0.0)
     25802
                   (-0.1 + 4.5)
   D 27801
                    0.0 0.0)
     41802
                   (+2.7 + 0.3)
   \triangle 1 No. 97 (cadastral survey) - sub station ( 0.0
                                                            0.0)
```



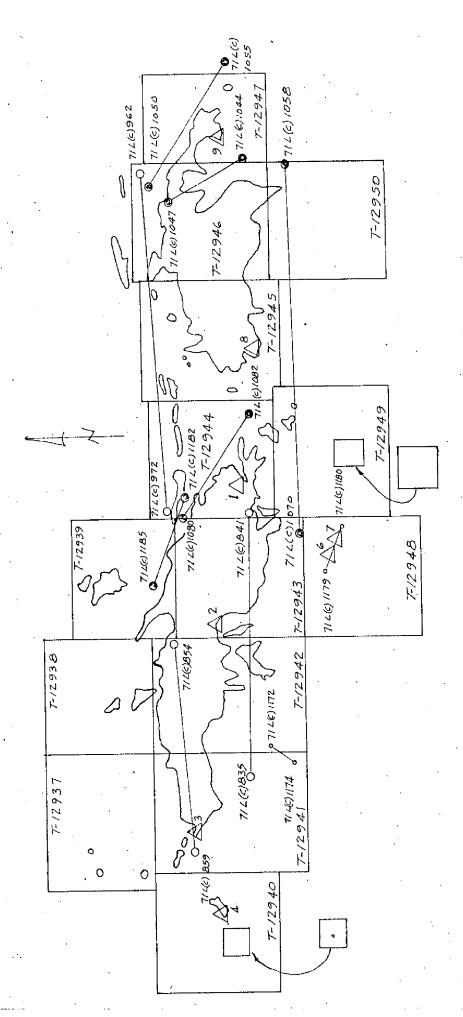


ALROPRIANGULATION SKETCH

VERSIN ISLAND

O 1:50,000 panchromatic O 1:30,000 color

0 1:20,000 color



AEROTRIANGULATION SKEICH

VIRGIN ISLANDS JOB PH-650l

Ratio Photographs

1:60,000 panchromatic 1:30,000 color

1:20,000 color

ADDENDUM
PHOTOGRAMMETRIC PLOT REPORT
VIRGIN ISLANDS
PH-6504
January 1974

A horizontal control station and three subpoints were established on Pelican Cay just north of Little Hans Lollik Island.

A three-photo strip (71M 964-966) of 1:60,000 scale photography was bridged and adjusted to ground. Points were dropped from this strip to control a 1:10,000 scale strip which was also bridged and adjusted to ground control. Points on the 1:10,000 scale strip were plotted by the Coradomat for compilation.

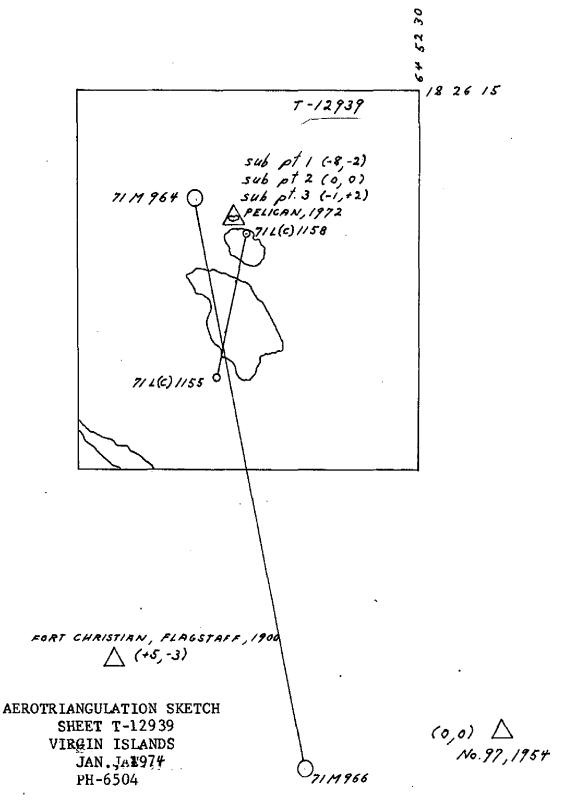
Respectfully submitted,

Don O. Norman

Don Norman

Appppved and forwarded:

John D. Perrow. Tr



Ol:60000 panchromatic ol:10000 color

NOAA FORM 76-41				S.U	U.S. DEPARTMENT OF COMMERCE
(8+75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		MOSTHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	/ITY Coastal
T-12939	PH=6504		Puerto Rico	bu.	Division (Norfolk)
STATION NAME	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE PUOT PLOCE	GEOGRAPHIC POSITION	REMARKS
	(fndex)	POINT NUMBER	zowe V.I. Extension	λ LONGITUDE	
			x= 1 029 153,73	O -	
HANS, 1918	P.C. P.29	57100	y= 204 069.41	γ	
			x= 1 028 971 67 ×	ф	
LOLLIK, 1918	P.C. P.22	56100	y= 208 026.33 ~	γ	
			x=1 039 824,56 √	φ	
WEST, 1918	P.C. P.31		y≈ 194 521.45	γ	
	Estab. by		x=1 028 235.21	ф	
PELICAN, 1972	field per Inst.11/15/	64100 72	y= 213 951,53	γ	
	Verifie	ď	-χ	ф	
	by Geodesy		-ĥ	γ	·
			x=1 028 072.84	ф	
SUB. PT. 1	-	64101	y≈ 213 965.79 ✓	γ	
			X= 1 028 232.25	φ	
SUB. PT. 2	,	64102	y≈ 213 963.57	γ	
			x=1 028 385.24	ф	
SUB. PT. 3		64103	y= 213 803.16 ′	γ	
			χ=	ф	
			y=	γ	
			-χ	ф	
			y=	γ	
COMPUTED BY TAVIOR		DATE 8/29/74	COMPUTATION CHECKED BY J. Fromm		DATE 8/29/74
H		DATE 11/20/75	LISTING CHECKED BY Charles H	Bishop	DATE 11/20/75
		DATE	HAND/PLOTTING CHECKED BY	[~ '	DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM, 76-41, 2-71 EDITION WHICH IS OBSOLETE.	H IS OBSOLETE.	

COMPILATION REPORT

T-12939

31. DELINEATION:

This manuscript was delineated with the Wild B-8 stereoplotter, using 1:10,000 scale color photography, except for the portion of ST. THOMAS ISLAND on the southwest corner of the manuscript which was delineated from a 1971 worksheet for T-12943 to the south.

The most northern tip of PELICAN CAY could not be delineated in stereo and was graphically delineated from the hydro support photos, holding to pass points dropped by the B-8.

 $\ensuremath{\mathsf{HANS}}$ LOLLIK ROCK was also delineated graphically from the hydro support photos.

32. CONTROL:

The horizontal and vertical control was adequate with reference to identification, density and placement. Refer to Photogrammetric Plot Report dated August, 1972, bound with this Descriptive Report.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS:

Because of surf conditions, some rocks may have been missed. The proximity of these rocks to the shoreline puts them out of the hazardous category.

36. OFFSHORE DETAILS:

None, except HANS LOLLIK ROCK. See Paragraph 31.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

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

40. HORIZONTAL AND VERTICAL CONTROL ACCURACY:

No statement.

41-45.

Not used.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with U.S.G.S. Quadrangle CENTRAL ST. THOMAS, V. I., 1:24,000 scale, dated 1955.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 905, scale of 1:100,000, 9th edition dated May 1, 1971.

Items to be Applied to Nautical Charts Immediately:

None.

Items to be Carried Forward:

None.

Respectfully Submitted,

J. H. Taylor Cartographer

Approved:

Jeter P. Battley In.

Jeter P. Battley, Jr. Chief, Coastal Mapping Section, Rockville

ADDENDUM TO COMPILATION REPORT

T-12939

One landmark was selected by the field editor in 1975 and added to the manuscript when field edit was applied.

Charles H. Bishop Final reviewer October 19, 1976

.41

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6504 St. Thomas-St. John, Virgin Islands

T-12939

Atlantic Ocean

Coconut Bay

Hans Lollik Island

Hans Lollik Rock

Lee Point

Leeward Passage

Lerkenlund Bay

Little Hans Lollik Island

Lovenlund Bay

Magens Bay

Mandal Bay

Mandal Point

Pelican Cay

St. Thomas

White Horseface Reef

Thatch Cay

Approved

Chas. E. Harrington & Staff Geographer -C51x2

NOAA FORM 75-74			U.	S. DEPARTMENT OF COMMERCE		
PHOTOGRAMMETRIC OFFICE REVIEW NATIONAL OCEAN SURVE						
			0363 TØ-12939			
1. PROJECTION AND GRIDS	12 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE		
СНВ	CHB	· · · · · · · · · · · · · · · · · · ·	СНВ	CHB		
CONTROL STATIONS	TIONS OF	4 5500/5515	N E NABITANTA ATATIONE	7 00070 00000 0747000		
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	CCURACY	OF LESS TH	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS		
CHB		,	NA	NA		
8. BENCH MARKS	9. PLOTTING (FIXES	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS		
NA	l N	A	CHB	NA		
ALONGSHORE AREAS (Nautical	Chert Data)					
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES		
СНВ	NA		СНВ	NA		
16. AIDS TO NAVIGATION	17. LANDMARK	:5	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES		
NONE	CHB		CHB	CHB		
PHYSICAL FEATURES		******	· · · · · · · · · · · · · · · · · · ·			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS		
CHB			NA	NA		
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES		
NA	NA		NA	NА		
CULTURAL FEATURES	.•					
27. ROADS	28. BUILDINGS	3	29. RAILROADS	-30. OTHER CULTURAL FEATURES		
СНВ	СНВ		NA	NONE		
BOUNDARIES						
31. BOUNDARY LINES NA			32. PUBLIC LAND LINES	IA		
				···		
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	<u> </u>	35. LEGIBILITY OF THE		
			снв	MANUSCRIPT		
СНВ			J. 2	CHB		
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39, FORMS		
CHB	CCH	IB	CHB	СНВ		
40. REVIEWER	. /		SUPERVISOR, REVIEW SECTIO			
Charles HB.	,	• •	1 /9 7/ 000	iank		
Charles H. Bisho		<u>/21/75</u>	Joseph W. Vonas	ek		
41. REMARKS (See attached sheet		TIONS TO THE !	IANTICODET			
	fumished by th	e field complet	ion survey have been applied to	the manuscript. The manu-		
COMPILER			SUPERVISOR			
Charles HT	•	·	Joseph W Von			
Review-C. H. Bishop 43. REMARKS	11/21/	75	Joseph W. Vona	isek		
}			V			
See Fo:	rm 76-36C					

Field Edit Report
Virgin Islands, 1975
Job CM-7304 PH-6504
Sheet T-12939

51. METHODS

Field edit was concerned with rock heights and rock configuration. Most of the edit was done from a boat but the roads were inspected by car on Picara Point.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information. The Micro Wave tower on Picara Point has been located previously. The position has been computed in the field in 1975 and is: Lat. 18 22' 34".096 and Long. 64 55! 43".099.

The tower is a landmark not because of its height but because of its position on the ridge leading to Picara Point.

The bluffs along the Leeward Passage on St. Thomas are the most significant feature from the water.

The cable crossing in Magens Bay are indicated on separate photographs in the interest of clarity.

Hans Lollik Rock may bare but only because of heavy swell. Two observations on different days indicated the rocks were awash.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.

Robert S. Tibbetts Chief, Photo Party 62

HYDROGRAPHIC PARTY

GEODETIC PARTY

PHOTO FIELD PARTY

COMPLATION ACTIVITY

QUALITY CONTROL & REVIEW GRP.

COAST PILOT BRANCH

(See reverse for responsible personnel) 22 AFFECTED 25641 ORIGINATING ACTIVITY METHOD AND DATE OF LOCATION (See instructions on reverse side) Feb, 1975 FIELD F-3-6-L NATIONAL OCEANIC AND ATMENT OF COMMERCE NORTHEORYTHE ADMINISTRATION U.S. DEPARTMENT OF COMMERCE 8/28/75 71L(C)854 11/15/71 OFFICE been inspected from seoward to determine their value as landmarks.

SURVEY NUMBER

DATUM D.P. Meters 1265.2 43.099 St. Thomas, V. I. LONGITUDE 55 ø POSITION 64 D.M. Meters 1048.2 34.096 Puerto Rico LATITUDE Virgin Islands 18 22 ٥ DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) T-12939 REPORTING UNIT (Field Perty, Ship or Office) Special Projects Sect. The following objects HAVE M HAVE NOT OPEN PROJECT NO. Microwave Tower PH-6504 Replaces C&GS Form 567. XTO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 (8-74) 423 CHARTING NAME TOWER





≡

REVIEW REPORT T-12939

SHORELINE

October 19, 1976

61. GENERAL STATEMENT:

See Summary, which is page 6 of this Descriptive Report.

A comparison print showing differences noted in Paragraph 62 and 63 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a 1:20,000 scale copy of Survey T-3771, 1:10,000 scale, dated May - October, 1918. The copy was distorted, making detailed comparison impractical. Considering the method of the old survey, the two maps compare well.

In the area compared, T-12939 supersedes T-3771 for nautical chart construction purposes. T-3771 is the latest registered survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles CENTRAL ST. THOMAS, V. I., 1:24,000 scale, dated 1955 and EASTERN ST. THOMAS, V. I., 1:24,000 scale, dated 1954. Considering the difference in scale, these maps compared well with T-12939. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the Preliminary Sounding Overlay for Survey H-9514 (WH-10-2-75). No significant differences were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 25641, 1:100,000 scale, 14th edition, dated April 24, 1976. No significant differences were noted: The scale is too small for adequate comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets the requirements of Bureau Standards and the National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Cartographer October 19, 1976

Approved for forwarding:

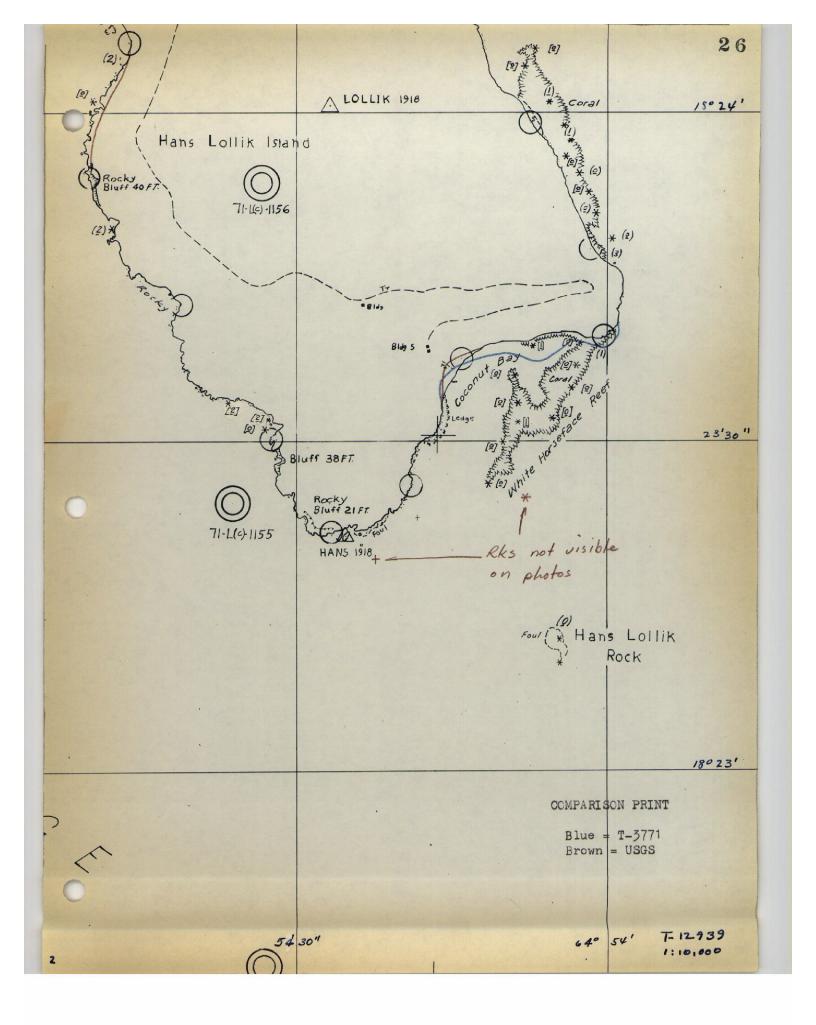
Joseph W. Vonasek

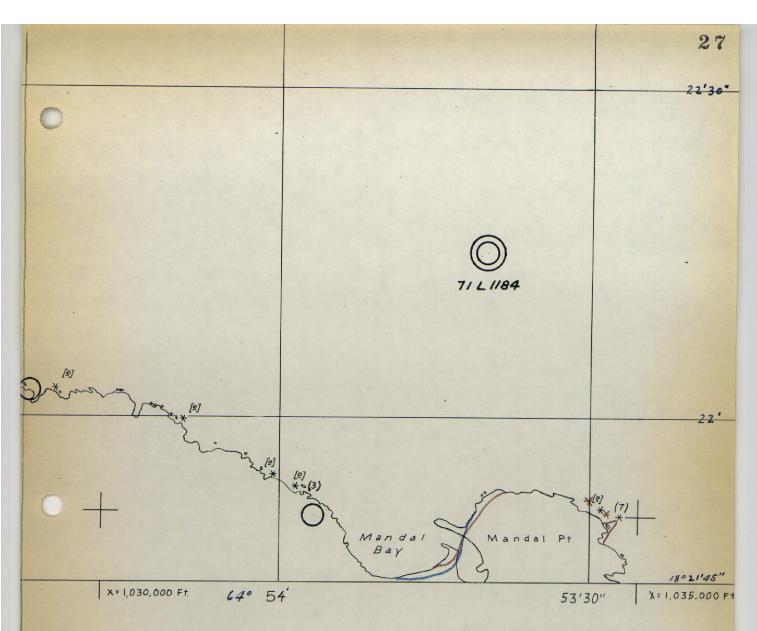
Chief, Photogrammetric Branch, AMC

Approved;

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division





- △ Recoverable horizontal control station of third-order or higher accuracy
 Recoverable horizontal control station of less than third-order accuracy
- The heavy shoreline defines the approximate mean high water.

 Compiled by photogrammetric methods, from aerial photographs
- Photogrammetric elevations and depths of rocks are in brackets
- () Field elevations of rocks are in parentheses

Date of Photography Nov. 1971
Date of Field Inspection None
Date of Field Edit Feb. 1975

Date of Field Edit Feb. 1975
Date of Final Compilation Aug. 1975

Date of Final Review Oct. 1976

COMPARISON PRINT

Blue = T-3771 Brown = USGS

T- 12939

22'30"

COMPARISON PRINT

Brown = USGS

22'

RK not visible

71 L (c) 1183

Thatch

WEST 1918 X=1,040,000 FT.

18° 21' 45 64° 52′ 30″

Y= 195,000 Ft

NATIONAL OCEAN SURVEY SHORELINE MANUSCRIPT

53

T-12939

VIRGIN ISLANDS ST. THOMAS HANS LOLLIK ISLAND

SCALE 1:10,000

(1 inch = 833.33 ft.) CONTROL DATA

Polyconic projection: Puerto Rican Datum 5,000 foot grid based on Puerto Rico plane coordinate system -Virgin Island extension

Datum plane : Mean High Water



T-12939 National Archives Data

1 Discrepancy Print (Field Edit Sheet)

1 Form C&GS-152 (Control Station Identification)

Photography: 71-M(C) 904

74-Z(C) 7128 & 7141

