

ORIGINAL

T-12937

T-12937

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-12937.....

Classification No. Final..... Edition No. 1.....  
Field Edited Map

### LOCALITY

State ..Virgin Islands.....

General Locality ..St. Thomas.....

Locality ..Cockroach Island and Dutchcap Cay.....

1971 TO 1975

### REGISTRY IN ARCHIVES

DATE .....



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

## DESCRIPTIVE REPORT - DATA RECORD

## TYPE OF SURVEY

- ☒ ORIGINAL  
☐ RESURVEY  
☐ REVISED

SURVEY XR-T-12937

MAP EDITION NO. (1)

MAP CLASS Final (F.E.)JOB PH- 6504

## PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division  
(Rockville and Norfolk)

## OFFICER-IN-CHARGE

Wesley V. Hull (Rockville)  
Jeffrey G. Carlen (Norfolk)

## LAST PRECEDING MAP EDITION

## TYPE OF SURVEY

- ☐ ORIGINAL  
☐ RESURVEY  
☐ REVISED

JOB PH- \_\_\_\_\_MAP CLASS \_\_\_\_\_

SURVEY DATES:

19 \_\_\_\_\_ TO 19 \_\_\_\_\_

## I. INSTRUCTIONS DATED

## 1. OFFICE

Dec. 14, 1971      Aerotriangulation  
 Jan. 25, 1972      Compilation  
~~Nov. 15, 1972      Compilation Supplement 1~~

## 2. FIELD

Oct. 18, 1971  
 Nov. 15, 1972 - Supplement 1

## II. DATUMS

## 1. HORIZONTAL:

☐ 1927 NORTH AMERICAN

OTHER (Specify)

Puerto Rico Datum

## 2. VERTICAL:

- ☒ MEAN HIGH-WATER  
☒ MEAN LOW-WATER  
☐ MEAN LOWER LOW-WATER  
☐ MEAN SEA LEVEL

OTHER (Specify)

## 3. MAP PROJECTION

~~Lambert Conformal Conic~~ Polyconic

## 4. GRID(S)

~~STATE~~  
Puerto RicoZONE Virgin Islands  
Extension

## 5. SCALE

1:10,000

STATE

ZONE

## III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	D. Norman	Dec. 1971
	LANDMARKS AND AIDS BY	N.A.	
2. CONTROL AND BRIDGE POINTS METHOD: Coradi	PLOTTED BY	D. Phillips	Jan. 1972
	CHECKED BY	D. Phillips	Jan. 1972
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	J. Taylor	Aug. 1974
	CHECKED BY	G. Fromm	Aug. 1974
INSTRUMENT: B-8 & Graphic	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. Taylor	Aug. 1974
	CHECKED BY	G. Fromm	Aug. 1974
	CONTOURS BY	NA	
METHOD: Inked	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	J. Taylor	Aug. 1974
SCALE: 1:10,000	CHECKED BY	G. Fromm	Aug. 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. P. Battley	Sept. 1974
	BY	R. R. White	Aug. 1974
6. APPLICATION OF FIELD EDIT DATA	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
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	E. L. Rolle	March. 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. T. CATDR	MAR. 1977

NOAA FORM 76-36A

SUPERSEDES FORM C&amp;GS 181 SERIES

\* U. S. G.P.O. 1972-769382/582 REG.#6



NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12937  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L" & "Z" - RC-9 "M" RC-10		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE SAN JUAN, PR Magens Bay, V.I.		X(C) COLOR X(P) PANCHROMATIC (I) INFRARED		ZONE Atlantic	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 60th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71L(C) 859 & 860	15 NOV 71	09:20	1:30,000	1.3 ft. above MLW	
71L(C) 980	15 NOV 71	11:08	1:10,000	0.9 ft. above MLW	
* 74Z(C) 7175 & 7176	12 FEB 74	15:29	1:6,000	0.3 ft. above MLW	
* 74Z(C) 7032 & 7033	11 FEB 74	16:19	1:6,000	0.3 ft. below MLW	
71M(P) 973 - 974 (Bridging Only)	27 NOV 71	10:45	1:60,000		

REMARKS \* Photobathymetry photography used to update MHWL compilation from the 1971 photographs. Stage of tide based on staff readings.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of the above listed  
~~listed~~ photographs on the B-8 plotter.

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

None compiled

## 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 No Contemp. Survey	EAST T-12938	SOUTH T-12941	WEST No Contemp. Survey
REMARKS			

T-12937

# HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION

☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J.K. Wilson	1971
2. HORIZONTAL CONTROL	RECOVERED BY R.S. Tibbetts ESTABLISHED BY NA	11/2/71
PRE-MARKED BY	R.S. Tibbetts	11/2/71
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA	
PRE-MARKED OR IDENTIFIED BY	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY NA LOCATED (Field Methods) BY NA IDENTIFIED BY NA	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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 ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

- 1 CSI Card ✓
- 2 Form 470 Abstract of Directions ✓
- 2 Form 24A List of Directions ✓



T-12937  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	8/5/75
2. HORIZONTAL CONTROL	RECOVERED BY Robert S. Tibbetts	2/21/75
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY N/A	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY Robert S. Tibbetts	2/21/75
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
711860 ✓			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1 Discrepancy Print (Field Edit Sheet) ✓ 1 Field Edit Report ✓			

T-12937  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and Alongshore Features	Aug. 1974	Class III Superseded	Aug. 1974	Aug. 1974
1975 Field edit applied Compilation complete	Aug. 1975	Class I Manuscript Superseded	Aug. 1975	
Shoreline of Dutchcap Cay and Cockroach Id. revised by B-8 compila- tion of 1974 photography	Oct. 1975	Class I Superseded	Oct. 1975	
Final Review	Oct. 1976	Final	March 1977 1975	

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
	None		

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: \_\_\_\_\_

## 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	

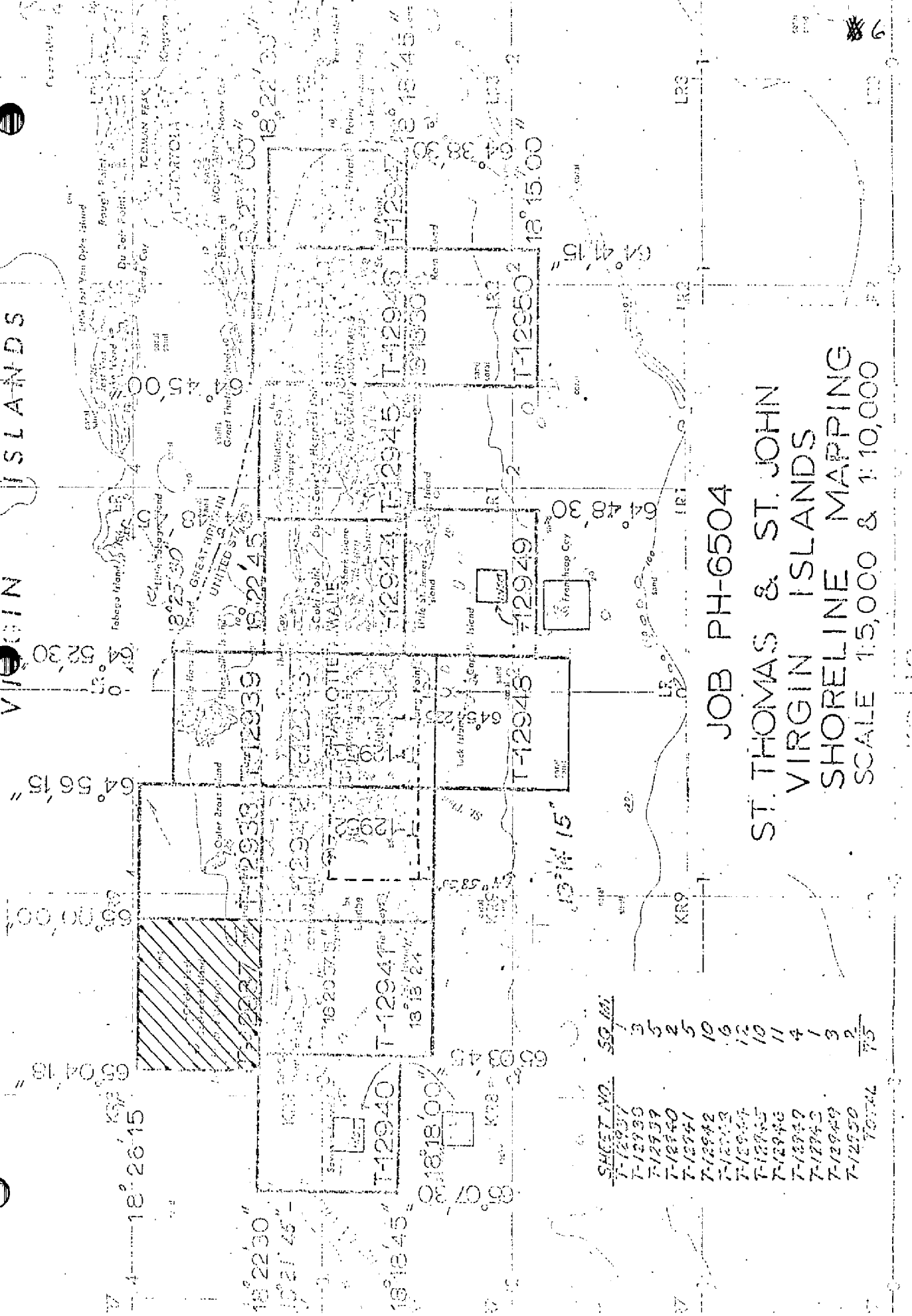


# VIRGIN ISLANDS

JOB PH-6504

ST. THOMAS & ST. JOHN  
VIRGIN ISLANDS  
SHORELINE MAPPING  
SCALE 1:5,000 & 1:10,000

SHEET NO.	SQ. M.
T-12937	1
T-12938	3
T-12939	5
T-12940	2
T-12941	5
T-12942	10
T-12943	6
T-12944	12
T-12945	10
T-12946	11
T-12947	4
T-12948	1
T-12949	3
T-12950	2
TOTAL	75





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 - OFFICE - 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 October 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 Rockville 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 day-beacons (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 Islands  
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.*  
John D. Perrow, Jr.  
Acting Chief  
Aerotriangulation Section

Respectfully submitted:

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



Fit to Control  
(x, y) feet

▲ ■ held in adjustment

STRIP #1

▲ 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 (-2.5, -0.6)  
 ▲ 4 Panel on Savana Island (+1.4, -0.7)

STRIP #2

▲ 2 FORT CHRISTIAN FLAGSTAFF, 1900 sub sta (+0.4, +0.6)  
     23801 (-4.6, -3.3)  
     23802 (-3.7, -1.9)  
 ■ 56801 (-1.5, -1.5)  
     35801 (+0.3, +0.3)  
 ■ 58801 (+1.9, +1.9)  
 ▲ 3 BLUFF, 1918 (-0.8, -1.1)

STRIP #3

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

STRIP #4

■ 35801 (-0.2, 0.0)  
     35802 (-5.7, +2.0)  
     56801 (-3.8, -0.3)  
 ■ 37801 (+0.5, +0.4)  
 ■ 21801 (-0.5, -0.4)  
 2 FORT CHRISTIAN FLAGSTAFF, 1900 sub sta (+1.5, +0.4)  
     40801 (-3.5, +0.8)  
 ▲ No. 97 (cadastral survey) sub sta (+0.2, +0.1)  
     41801 (+0.9, -1.5)  
     41802 (+2.2, -0.2)

STRIP #5

▲ 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

Δ 1 No. 97 (cadastral survey) - sub station ( 0.0 0.0)  
 Δ 8 BAKE, 1918 sub station ( 0.0 0.0)  
 Δ 9 MOORE, 1918 sub station ( 0.0 0.0)

STRIP #7

□ 30801 ( 0.0 +2.7)  
 □ 33802 (+0.8 +1.0)  
 □ 33801 (-1.7 +0.4)  
 □ 36801 (-2.5 +0.9)  
 36802 (-1.6 +2.2)  
 Δ 9 MOORE, 1918 sub station (+2.3 -2.3)

STRIP #8

□ 79801 (-0.0 0.0)  
 79802 (-2.5 -0.2)  
 79803 (+2.3 0.0)  
 □ 81801 ( 0.0 0.0)  
 82801 (+2.1 -0.8)  
 8 BAKE, 1918 sub station (+3.8 -1.7)  
 84801 (-5.1 -1.7)  
 □ 84802 ( 0.0 0.0)  
 84803 (-1.6 -2.1)

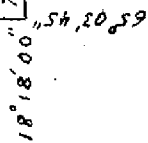
STRIP #9

□ 6801 ( 0.0 0.0)  
 6802 (+1.8 +0.4)  
 7801 (-0.7 -0.1)  
 27801 (-0.2 +2.3)  
 9801 (-1.8 -0.9)  
 Δ 1 No. 97 (cadastral survey) - sub station ( 0.0 0.0)  
 10801 (-1.5 +0.9)  
 10802 (+0.4 +0.3)  
 □ 21801 ( 0.0 0.0)

STRIP #10

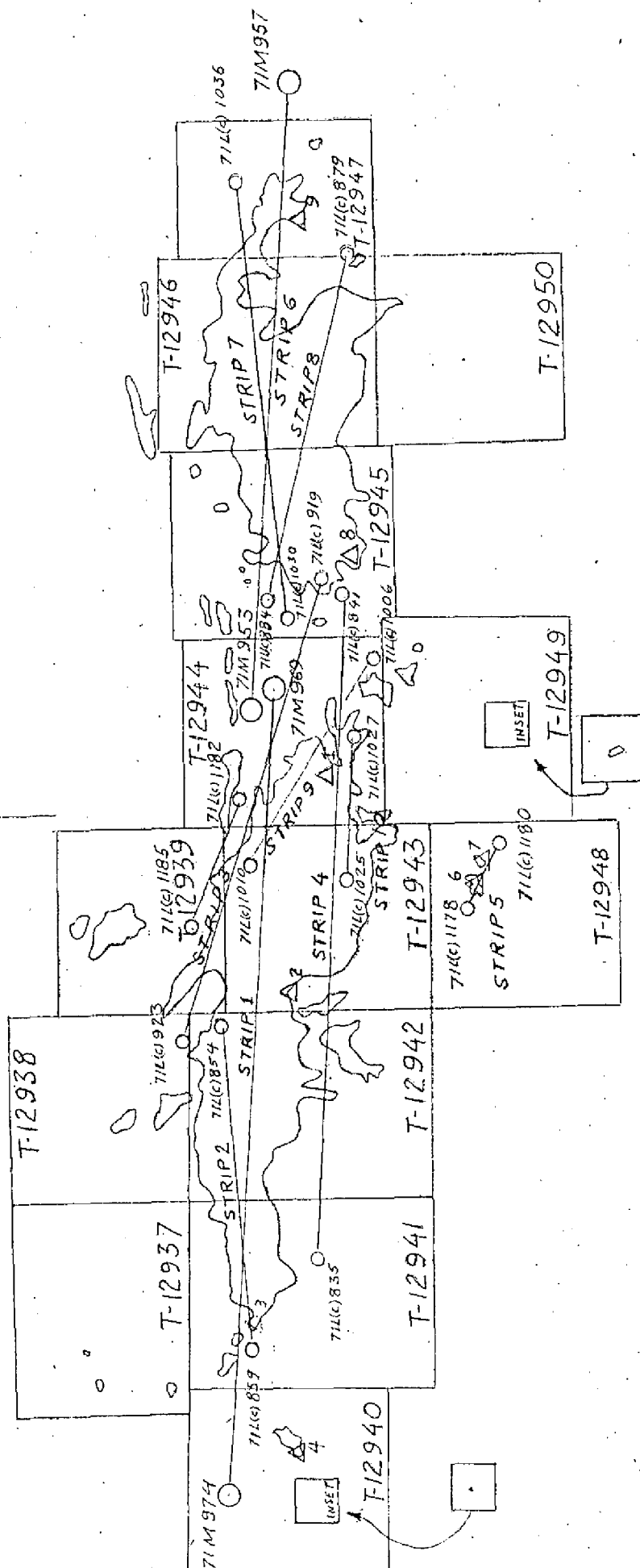
□ 25801 ( 0.0 0.0)  
 25802 (-0.1 +4.5)  
 □ 27801 ( 0.0 0.0)  
 41802 (+2.7 +0.3)  
 Δ 1 No. 97 (cadastral survey) - sub station ( 0.0 0.0)

## January 1972

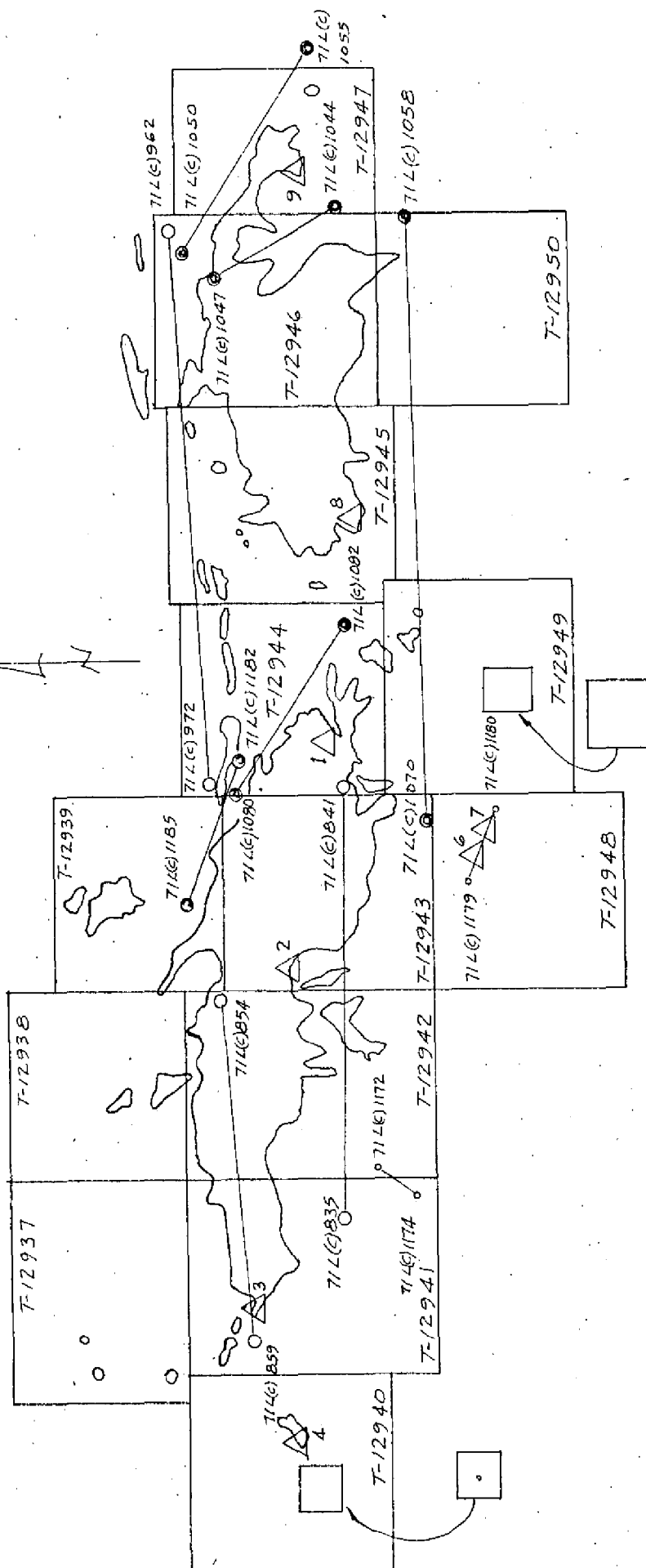




AEROTRIANGULATION SKETCH  
VINNIE ISLANDS  
JOB, PH-65504



- 1:60,000 panchromatic
- 1:30,000 color
- 1:20,000 color
- 1:10,000 color



Ratio Photographs

- ☐ 1:60,000 panchromatic  
☐ 1:30,000 color  
☒ 1:20,000 color  
☐ 1:10,000 color

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		
					Puerto Rico	Atlantic Marine Center			
					COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
					<del>STATE</del> Puerto Rico	$\phi$ LATITUDE	$\lambda$ LONGITUDE		
					ZONE	LATITUDE			
					Virgin Islands	LONGITUDE			
CRICKET, 1919	P.C.				X= 979,588.12	$\phi$			
	Pg. 29				Y= 211,382.25	$\lambda$			
DUTCH, 1918	P.C.				X= 975,312.18	$\phi$			
	Pg. 29				Y= 200,902.04	$\lambda$			
ROACH, 1918	P.C.				X= 975,807.58	$\phi$			
	Pg. 29				Y= 209,692.17	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
					X=	$\phi$			
					Y=	$\lambda$			
COMPUTED BY	J. Taylor				COMPUTATION CHECKED BY		DATE 8/29/74		
LISTED BY	J. Taylor				LISTING CHECKED BY G. Fromm		DATE 8/29/74		
HAND PLOTTING BY	J. Taylor				HAND PLOTTING CHECKED BY		DATE		



## COMPILATION REPORT

T-12937

31. DELINEATION

Cockroach Island and Cricket Rock were delineated by graphic methods. Dutchcap Cay was delineated by the B-8 plotter.

32. CONTROL

Horizontal control was adequate with reference to identification, density and placement. Refer to the 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

The mean high water line was delineated from office interpretation of the color photography listed on Form 76-36B.

36. OFFSHORE DETAILS

None, except rocks close to shore which were delineated from the color photography listed on Form 76-36B, *submitted with this report.*

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

No statement

39. JUNCTIONS

See Form 76-36B.5, *submitted with this report.*

40. HORIZONTAL AND VERTICAL ACCURACY

No Statment

41. - 45.

Not Used

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangle: WESTERN St. Thomas, VIRGIN ISLANDS, 1:24,000 scale, dated 1955.

47. COMPARISON WITH NAUTICAL CHARTS

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

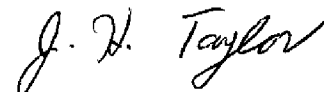
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:



J. H. Taylor  
Carto. (Photo)

Approved:



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

September 13, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12937

Atlantic Ocean

Cockroach Island

Cricket Rock

Dutchcap Cay

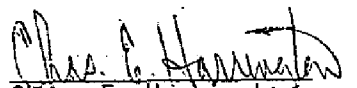
Dutchcap Passage

Gorret Rock

Salt Cay Passage

Sula Cay

Approved



Chas. E. Harrington  
Staff Geographer -C51x2

FORM C&GS-1002  
(9-66)U.S. DEPARTMENT OF COMMERCE  
ESEA  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T-12937

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT E. L. R.	11. DETAIL POINTS NA
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE NA	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES NA
16. AIDS TO NAVIGATION None	17. LANDMARKS None	18. OTHER ALONGSHORE PHYSICAL FEATURES NA	19. OTHER ALONGSHORE CULTURAL FEATURES NA
PHYSICAL FEATURES			
20. WATER FEATURES NA	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES NA
CULTURAL FEATURES			
27. ROADS NA	28. BUILDINGS NA	29. RAILROADS NA	30. OTHER CULTURAL FEATURES NA
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY J.P.B.	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS CHB
40. REVIEWER Charles H. Bishop <i>Charles H. Bishop</i>		11/4/75 SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph W. Vonasek</i> Joseph W. Vonasek	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
43. REMARKS Field edit applied from Discrepancy Print (F.E. copy) and Photo 71 L 860(ratio).		COMPILER R.R. White <i>R.R. White</i> 8/ /75 SUPERVISOR <i>Joseph W. Vonasek</i> Joseph W. Vonasek	



Field Edit Report  
Virgin Islands, 1975  
Job ~~CM-7304~~ PH-6504  
Sheet T-12937

51. METHODS

Field edit on T-12937 was accomplished on 2/21/75 using a launch from NOAA Ship WHITING. References to photographs are as indicated on the ozalid.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.

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



## REVIEW REPORT T-12937

## SHORELINE

October 4, 1976

61. GENERAL STATEMENT:

See Summary, which is page ~~6~~<sup>7</sup> of this Descriptive Report.

A comparison print showing differences noted in Par. 62, 63, and 64 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-3769, 1:10,000 scale, dated 1918. Significant differences are shown on the comparison print in blue.

In the area compared, T-12937 supersedes T-3769 for nautical chart construction purposes. T-3769 is the latest registered survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle WESTERN ST. THOMAS, V.I., 1:24,000 scale, dated 1955. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the unverified sounding overlay for Survey H-9601 (WH-10-1-76). One discrepancy was noted. A 91 foot sounding plots on the mean high water line on the east side of Cockroach Island at Lat. 18° 24' 28.1". This could not be resolved photogrammetrically.

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 for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
October 4, 1976

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*William H. Good*

Chief, Photogrammetric Branch

*James C. Allen*

Chief, Coastal Mapping Division



65° 03' 30"

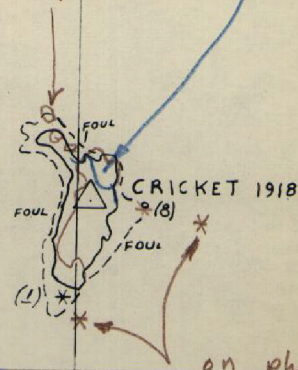
03'

23

Photos prove blue line  
to be incorrect.

No detached rock  
apparent on photos

Cricket  
Rock

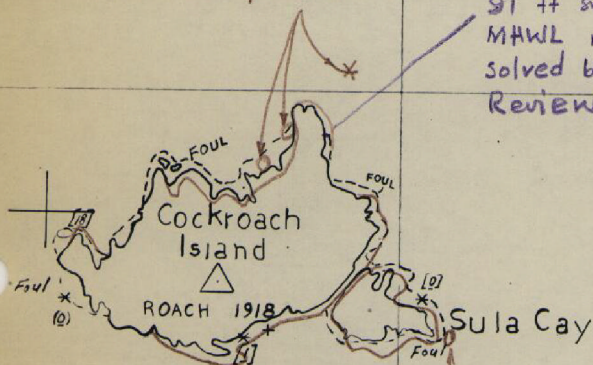


on photos  
No rocks visible at  
these positions.



Rks not visible  
on photos

91 ft sndg at  
MAWL not re-  
solved by Final  
Review.



Not visible  
on photos

COMPARISON PRINT

Blue = T-3769  
Brown = USGS  
Purple = H-9601

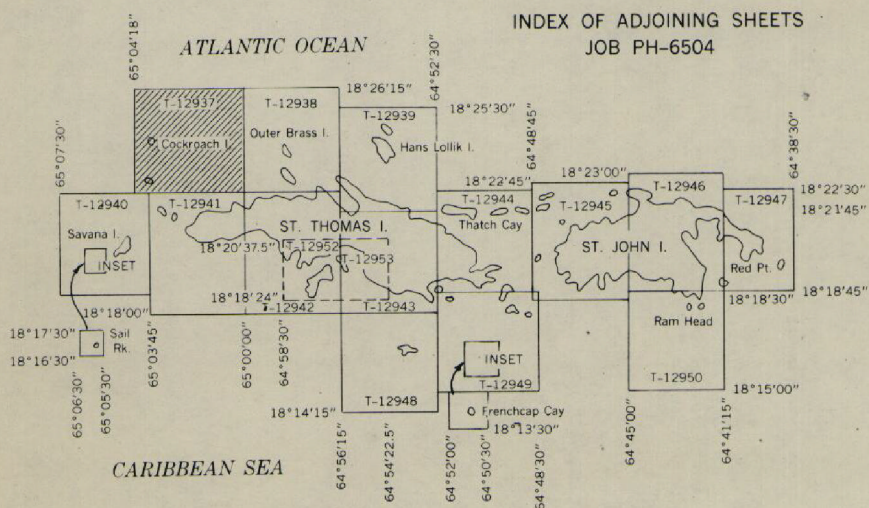
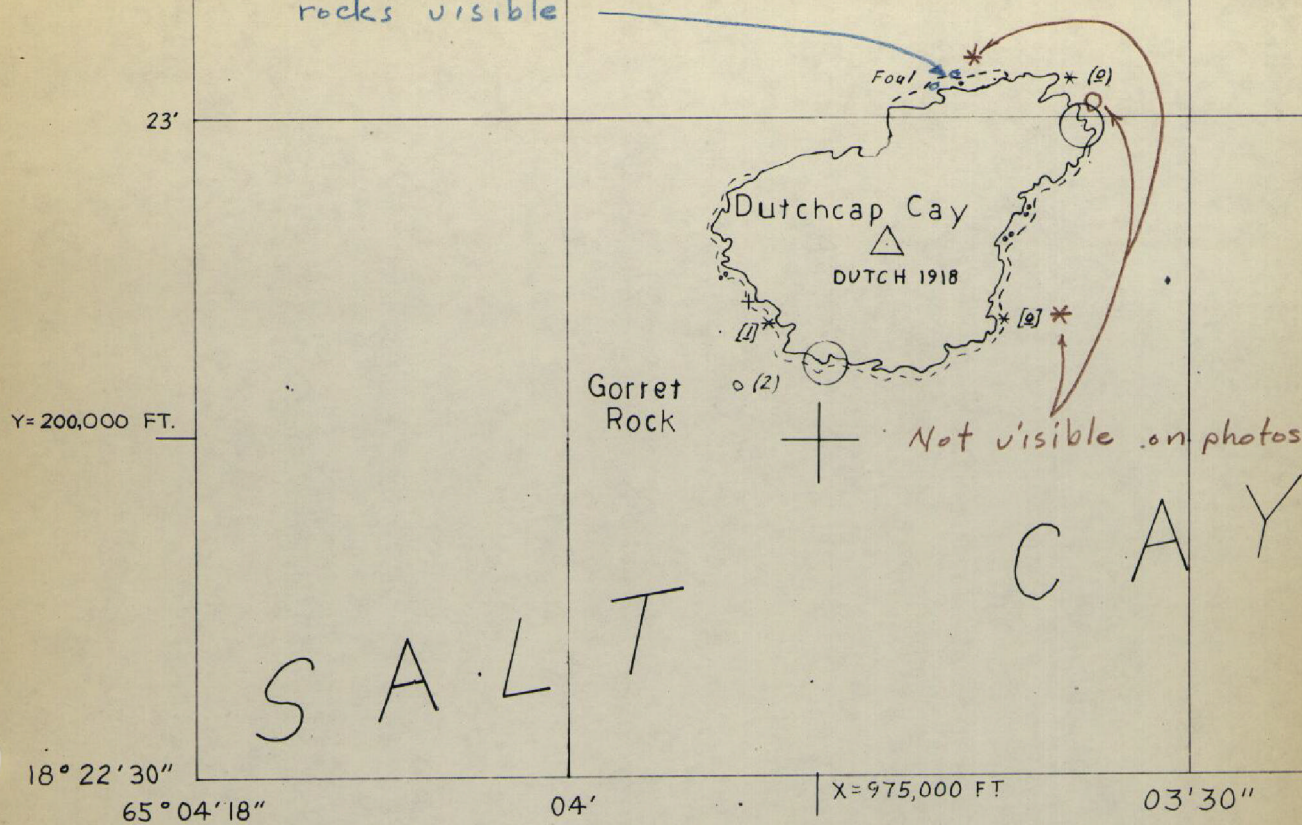
18° 24' 00"

C H C A P P A S S A

T-12937  
1:10,000



Surf on photos; no  
rocks visible



## COMPARISON PRINT

Blue = T-3769

Brown = USGS

T-12937  
1:10,000



T-12937  
National Archives Data

1 Discrepancy Print (Field Edit Sheet)

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

Photography: 71-L(C) 860

