

T-12938

T-12938

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-12938

Classification No. Final Edition No. 1

Field Edited Map

LOCALITY

State Virgin Islands

General Locality North of St. Thomas

Locality Outer Brass Island

19 71 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 ~~XX~~-T-12938

MAP EDITION NO. (1)

MAP CLASS Final (F.E.)

JOB PH-6504

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division(Rockville)
Coastal Mapping Division(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 Sup. I~~

2. FIELD

Oct. 18, 1971

Nov. 15, 1972 - Supplement I

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

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	BY	D. Norman	Sept., 72
METHOD: Analytic	LANDMARKS AND AIDS BY	N.A.	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	D. Phillips	Sept., 72
METHOD: Coradi	CHECKED BY	N.A. D. Phillips	Sept., 72
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	P. Dempsey	Oct., 72
COMPILATION	CHECKED BY	J. Richter	Oct., 72
INSTRUMENT: B-8	CONTOURS BY	N.A.	
SCALE: 1:10,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	P. Dempsey	Nov., 72
	CHECKED BY	J. Richter	Nov., 72
METHOD: Inked	CONTOURS BY	N.A.	
Graphic worksheets	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	P. Dempsey	Nov., 72
SCALE: 1:10,000	CHECKED BY	J. Richter	Nov., 72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P. Battley	Dec., 72
	BY	R.R. White	Aug., 75
6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	C.H. Bishop	Nov., 75
	BY	C.H. Bishop	Nov., 75
7. COMPILATION SECTION REVIEW	BY	C.H. Bishop	Oct., 76
8. FINAL REVIEW	BY	C.H. Bishop	Jan. 1977
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	E.L. Rolle	March, 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	R.T. CATPP	MAR. 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY		

NOAA FORM 76-36A

SUPERSEDES FORM C&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-12938
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L", "M" & "Z"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE SAN JUAN, PR Magens Bay		(C) COLOR (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) 1013, 1014, 1015	20 NOV 71	09:17	1:30,000	1.1 ft. above MLW	
71L(C) 855, 856	15 NOV 71	09:18	1:30,000	1.3 ft. above MLW	
71M(P) 971 - 972 (Bridging Only)	27 NOV 71	10:45	1:60,000		
* 74Z(C) 7137 & 7138	12 FEB 74	09:18	1:12,000	0.5 ft. above MLW	
* 74Z(C) 7145 thru 7148	12 FEB 74	09:23	1:12,000	0.6 ft. above MLW	
* 74Z(C) 7154 thru 7159	12 FEB 74	09:31	1:12,000	0.6 ft. above MLW	

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 color photographs listed above.

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

Not mapped

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 Contempor- ary Survey	EAST T-12939	SOUTH T-12942	WEST T-12937
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REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12938
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	2/22/75
	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 Lawrence H. Davis	2/22/75
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)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

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

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Jan. 1975	Class III Manuscript Superseded	Jan. 1975	Jan. 1975
1975 Field edit applied Compilation complete	Aug. 1975	Class I Manuscript Superseded	Aug. 1975	
Final Review	Oct. 1975	Final	1977 March 1975	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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

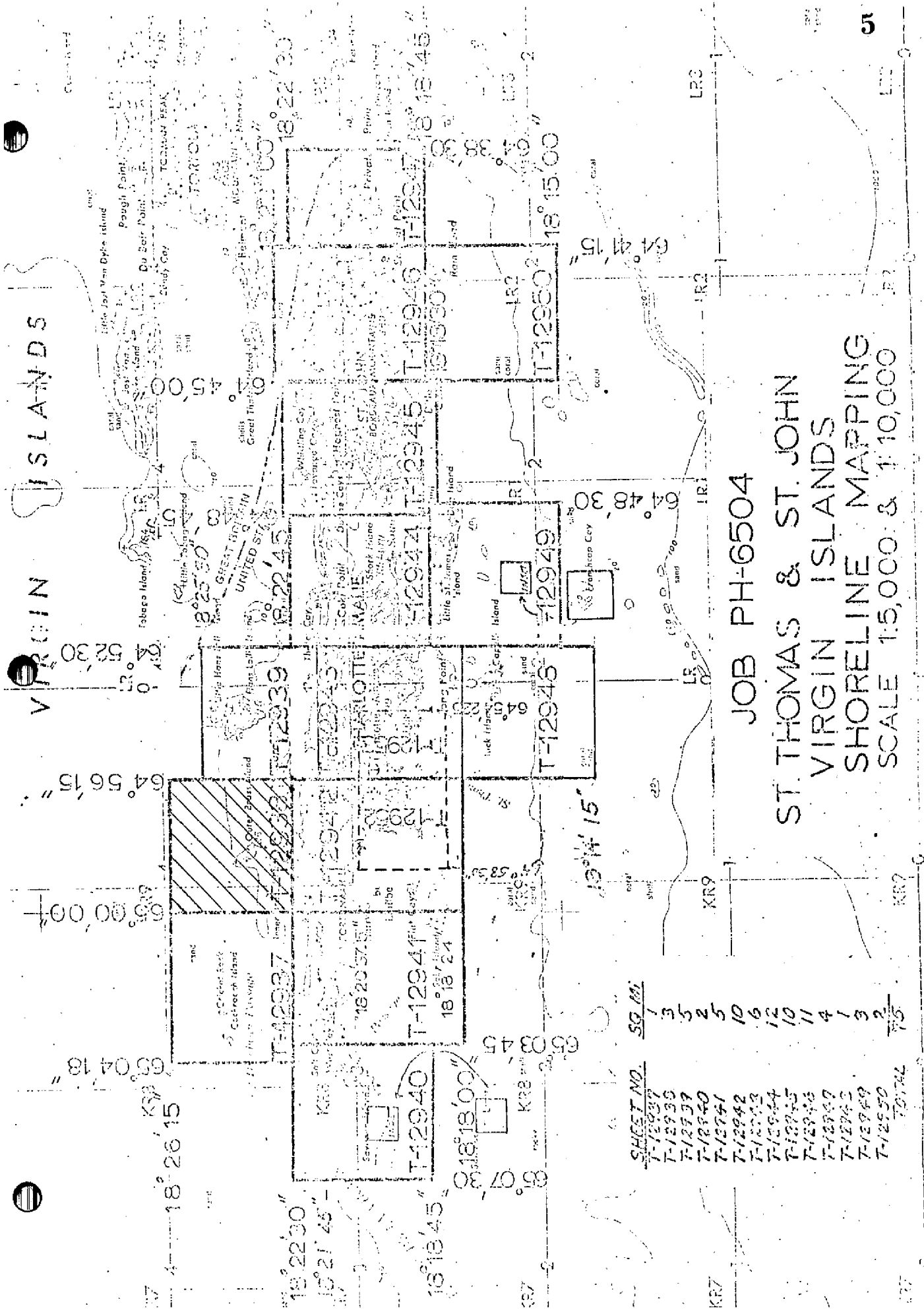
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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 - _____	<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 - _____	<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 - _____	<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.	SG. NO.
T-12937	1
T-12938	2
T-12939	3
T-12940	4
T-12941	5
T-12942	6
T-12943	7
T-12944	8
T-12945	9
T-12946	10
T-12947	11
T-12948	12
T-12949	13
T-12950	14
T-12951	15
TOTAL	15

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

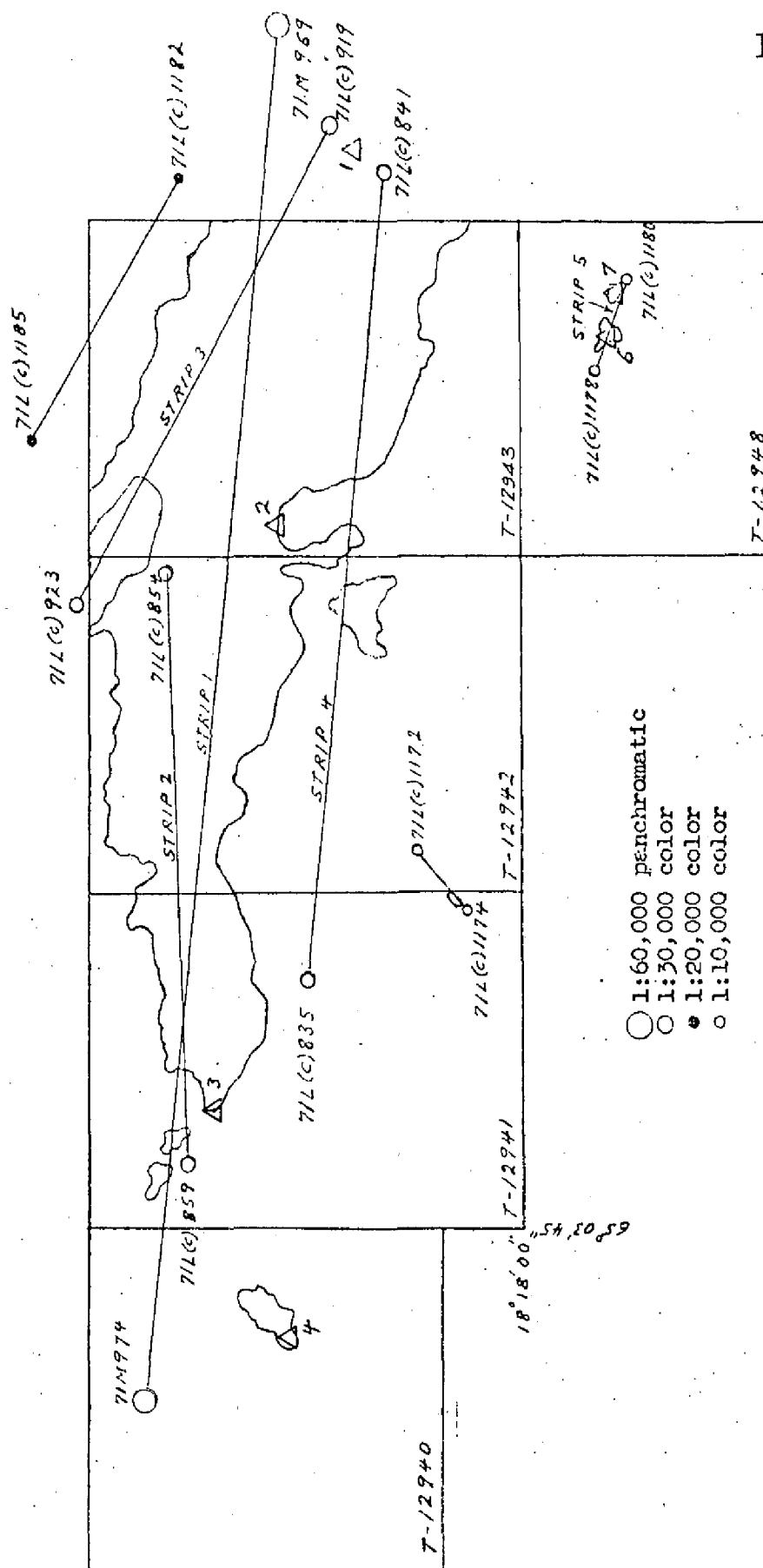
□ 6801 (0.0 0.0)
 6802 (+1.8 +0.4)
 7801 (-0.7 -0.1)
 27801 (-0.2 +2.3)
 9801 (-1.8 -0.9)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)
 10801 (-1.5 +0.9)
 10802 (+0.4 +0.3)
 □ 21801 (0.0 0.0)

STRIP #10

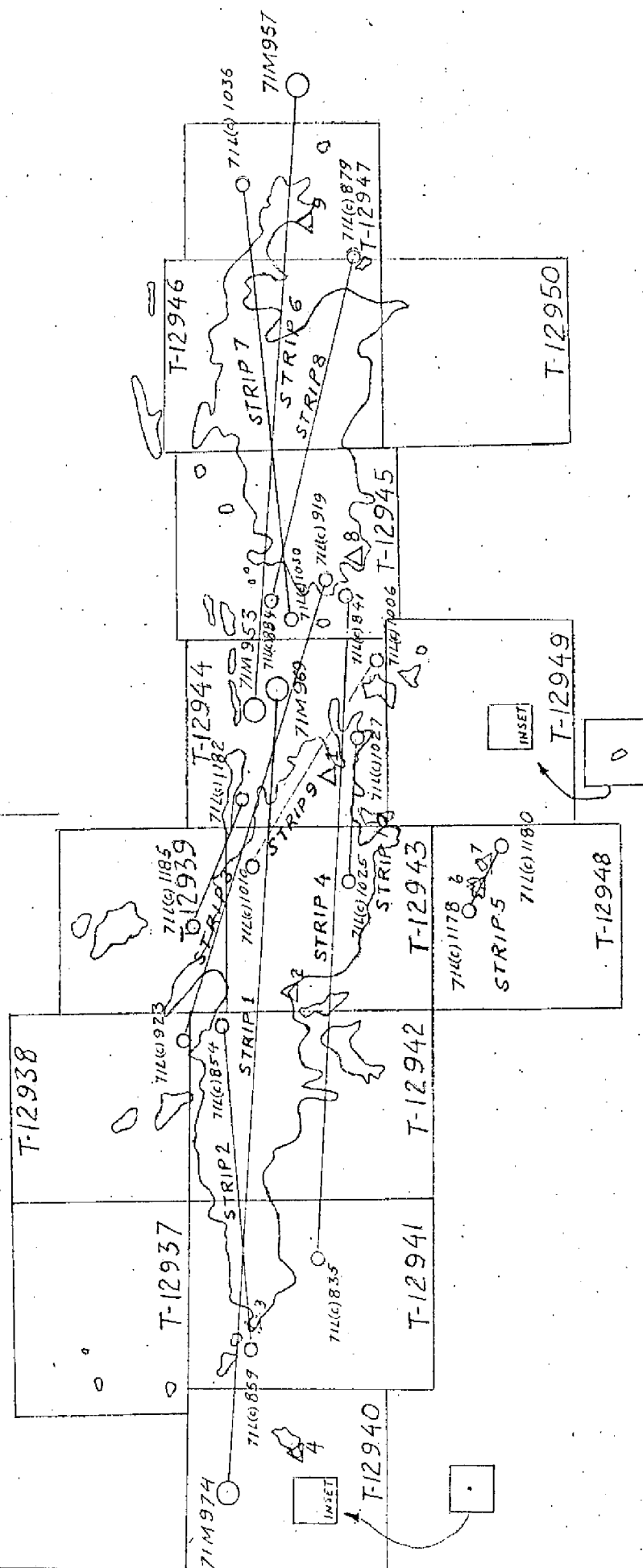
□ 25801 (0.0 0.0)
 25802 (-0.1 +4.5)
 □ 27801 (0.0 0.0)
 41802 (+2.7 +0.3)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)

AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job PH-6504
January 1972

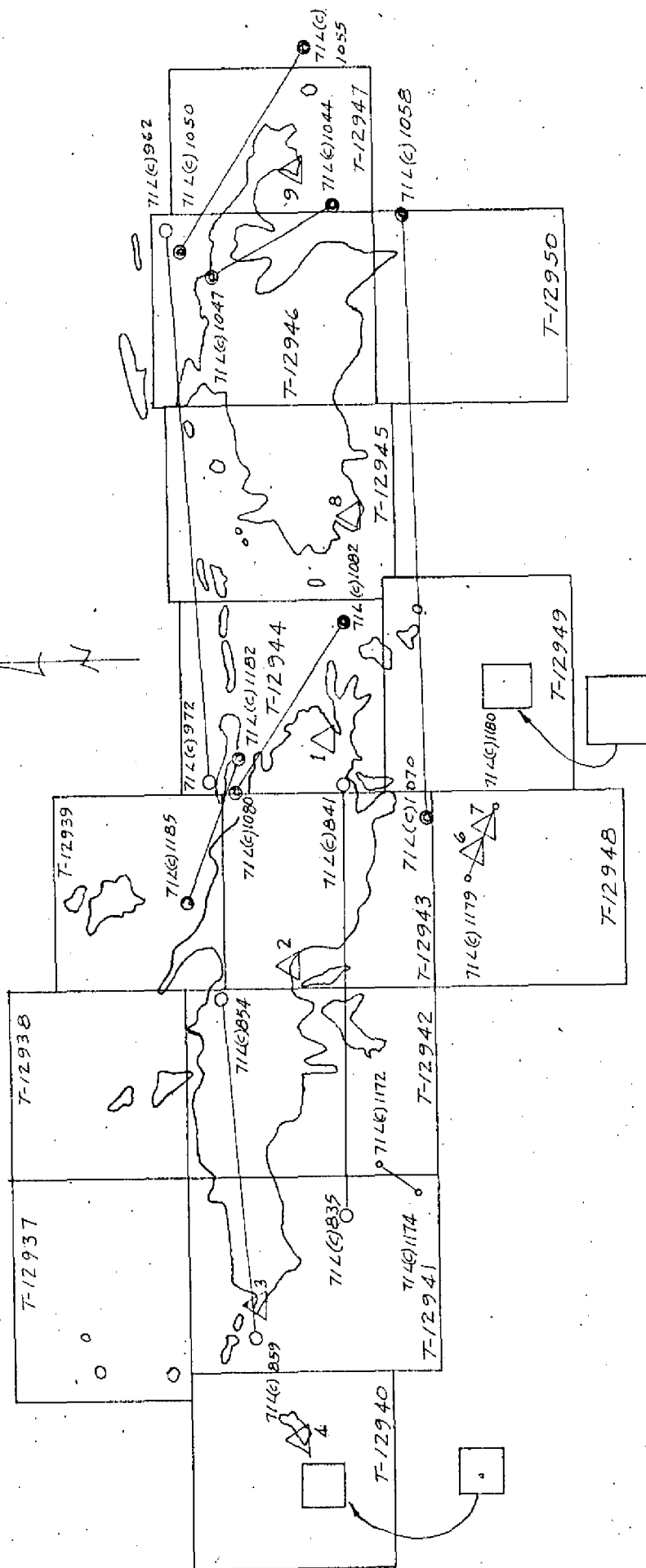
N



AEROTRIANGULATION SKETCH
 VIRGIN ISLANDS
 JOB, PK-5504



- 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)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY	
					COORDINATES IN FEET STATE <u>Puerto Rican</u> ZONE <u>Virgin Islands Extension</u>	Puerto Rico	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	Atlantic Marine Center
OUT, 1918	P.C. Pg. 30				x= 1,005,350.03	ϕ		
					y= 209,046.55	λ		
IN, 1918	P.C. Pg. 30				x= 1,005,106.55	ϕ		
					y= 203,483.77	λ		
PIC, 1918	P.C. Pg. 31				x= 1,017,213.90	ϕ		
					y= 202,412.88	λ		
MAG, 1918	P.C. Pg. 33				x= 1,013,255.00	ϕ		
					y= 200,089.00	λ		
					x=	ϕ		
					y=	λ		
					x=	ϕ		
					y=	λ		
					x=	ϕ		
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					x=	ϕ		
					y=	λ		
					x=	ϕ		
					y=	λ		
COMPUTED BY					COMPUTATION CHECKED BY			DATE
					C.H.B.			11/10/75
LISTED BY					LISTING CHECKED BY			DATE
					C.H.B.			11/10/75
HAND PLOTTING BY					HAND PLOTTING CHECKED BY			DATE
								11/10/75

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

COMPILATION REPORT

T-12938

31. DELINEATION:

1:30,000 scale color photography was set on the B-8 stereoplotter to delineate shoreline and shoreline features. Sufficient pass points were dropped along the shoreline for hydro support.

32. CONTROL:

Horizontal control was adequate for density and placement. *Refer to the Photogrammetric Plot Report bound with this Descriptive Report.*

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAIL:

The mean high water line was compiled from 1:30,000 scale color photography set on the B-8 plotter. Later, minor changes were made, where necessary to conform with photobathymetry.

36. OFFSHORE DETAIL:

No comment

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

See Form 76-36B, #5, *submitted with this Descriptive Report.*

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement

41. - 45.

Not used.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with U.S.G.S. Quadrangle
CENTRAL ST. THOMAS, V.I., 1955, contour interval 40 feet,
scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart No. 905,
scale 1:100,000, 10th edition, April 22, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Respectfully submitted,



P.J. Dempsey
Cartographer

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-12938

Atlantic Ocean

Brass Channel

Cave Cove

Inner Brass Island

Lizard Rocks

Magens Bay

Ornen Rock

Outer Brass Island

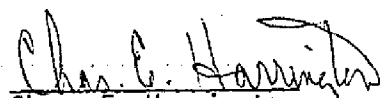
Picaro Point

Roach Point

St. Thomas

Tropaco

Approved


Chas. E. Harrington
Staff Geographer -C51x2

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEYPHOTOGRAMMETRIC OFFICE REVIEW
T- 12938

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 CHB	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 CHB	19. OTHER ALONGSHORE CULTURAL FEATURES NA
PHYSICAL FEATURES			
20. WATER FEATURES CHB	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 CHB	28. BUILDINGS CHB	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 NONE	39. FORMS CHB
40. REVIEWER Charles H. Bishop Charles H. Bishop 11/10/75		SUPERVISOR, REVIEW SECTION OR UNIT Joseph W. Vonasek 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.			
COMPILER R.R. White Re: C.H. Bishop 11/10/75		SUPERVISOR Joseph W. Vonasek Joseph W. Vonasek	
43. REMARKS Field edit applied from Discrepancy Print			

Field Edit Report
Virgin Islands, 1975
Job ~~SM-7304~~ PH-6504
Sheet T-12938

51. METHODS

Field edit on this sheet was mainly concerned with rock heights and configuration. (rock)

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information. Further development of Inner and Outer Brass Islands is not necessary. The shore is steep to vertical in most areas; the islands are covered with thick brush. The bluffs on St. Thomas are the most significant feature along shore.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.

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

REVIEW REPORT T-12938

SHORELINE

October 18, 1976

61. GENERAL STATEMENT:

See Summary which is page 6 of this Descriptive Report.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with 1:20,000 scale copies of 1:10,000 scale Surveys T-3770 and T-3771, both dated 1918. No significant differences were noted at Lizard Rocks and Outer Brass Island. Significant differences noted in the vicinities of Inner Brass Island, Tropaco Point and Picara Point are shown on the comparison print in blue.

In the area compared, T-12938 supersedes T-3770 and T-3771 for nautical chart construction purposes. T-3770 and T-3771 are the latest registered surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle CENTRAL ST. THOMAS, VI, 1:24,000 scale, dated 1955. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Lizard Rocks and the west side of Inner Brass Island were compared with the Unverified Sounding Overlay for

Survey H-9601 (WH-10-1-76). The remainder of the map was compared with the Preliminary Sounding Overlay for H-9514 (WH-10-5-75). 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 for Bureau Standards and National Standards of Map Accuracy.

Submitted:

Charles H. Bishop
Charles H. Bishop
Cartographer
October 18, 1976

Approved for forwarding:

Joseph W. Vonasek
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

D. H. Hargood
Chief, Photogrammetric Branch

James L. Latta
Chief, Coastal Mapping Division

Foul Lizard Rocks

23'

COMPARISON PRINT

Brown = USGS Quad.

$$y = 200,000 \text{ FT.}$$

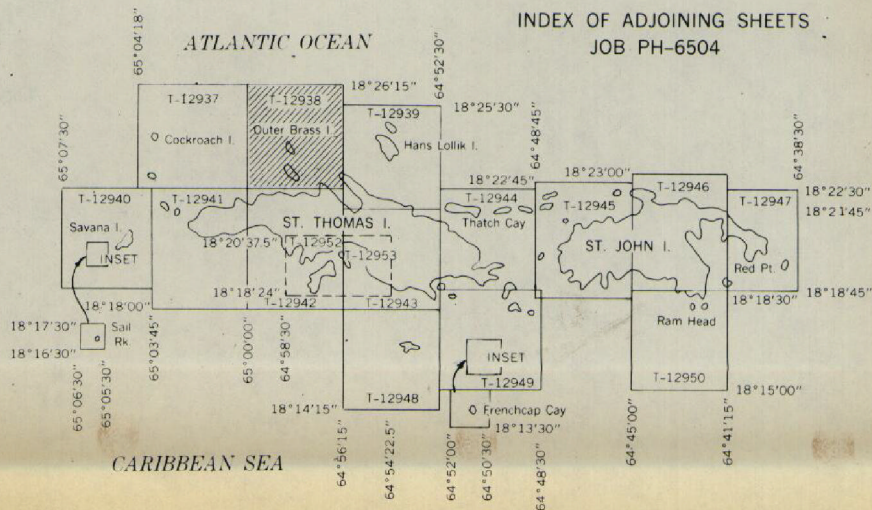
T-12938
1:10,000

 $18^{\circ}22'30''$ $65^{\circ}00'00''$

59' 30" | $x = 1,000,000$ FT

ATLANTIC OCEAN

INDEX OF ADJOINING SHEETS
JOB PH-6504



58' 30"

64° 58'

22

ATLANTIC

24' 30"



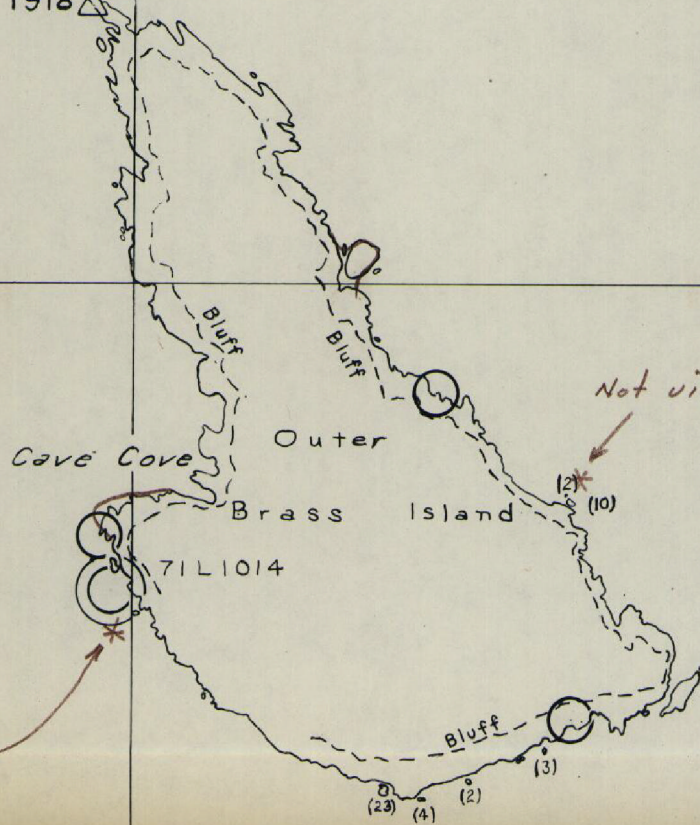
COMPARISON PRINT

Brown = USGS Quad.

T-12938
1:10,000

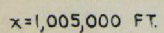
Rough Pt.
OUT 1918

18° 24'



Not visible
on photos





T-12938
1:10,000

23'30"

24

* Not visible on 1:30,000 scale photos.
 Visible on 1:12,000 photos, but stereo model could not be set.
 Approximate location
 of Ornen Rock, not visible
 on photographs

71 L 1013

No rock at this
 position on photos

PIC 1918

Picara Pt.

23'

ST. THOMAS

MAGENS

y = 200,000 F

Tropaco Pt.

MAG 1918

ST. THOMAS

BAY

18°22'30"

57'

x = 1,015,000 FT.

56'30"

64°56'15"

order or higher accuracy
 mean high water.
 aerial photographs

COMPARISON PRINT

Blue = T-3771
 Brown = USGS

NATIONAL OCEAN SURVEY
 SHORELINE MANUSCRIPT
 T-12938
 VIRGIN ISLANDS
 ST. THOMAS
 OUTER BRASS ISLAND

SCALE 1:10,000

(1 inch = 833.33 ft.)

CONTROL DATA

Polyconic projection: Puerto Rican Datum
 5,000 foot grid based on Puerto Rican plane
 coordinate system - Virgin Island Extension
 Datum plane: Mean High Water

T-12938
National Archives Data

1 Discrepancy Print (Field Edit Sheet)