

T-12946

T-12946

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-12946

Classification No. Final Edition No. 1

Field Edited Map

LOCALITY

State Virgin Islands

General Locality St. John

Mary Point to

Locality Leduc Island

19 71 TO 19 76

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY X T-12946	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS Final (F.E.)	
				<input type="checkbox"/> REVISED		JOB PH- 6504	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division(Rockville) Coastal Mapping Division(Norfolk)				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE Wesley V. Hull (Rockville) Jeffrey G. Carlen (Norfolk)				TYPE OF SURVEY		JOB PH- _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Dec. 14, 1971 Aerotriangulation Nov. 15, 1972 Supplement I Jan 25, 1972 Compilation				Oct. 18, 1971 Nov. 15, 1972 - Supplement I			
II. DATUMS							
1. HORIZONTAL: <input type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify) Puerto Rico			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Polyconic				4. GRID(S)			
				STATE Puerto Rico		ZONE Virgin Islands Extension	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				D. Norman - J. Shad		Aug. 1972	
METHOD: Analytical LANDMARKS AND AIDS BY				NA			
2. CONTROL AND BRIDGE POINTS PLOTTED BY				D. Phillips		July 1972	
METHOD: Coridamat CHECKED BY				D. Phillips		July 1972	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				C. Lewis - P. Dempsey		Oct. 1972	
COMPILATION CHECKED BY				J. Richter		Oct. 1972	
INSTRUMENT: B-8				NA			
SCALE: 1:15,000				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				C.F. Lewis		Nov. 1972	
Inked CHECKED BY				J. Richter		Nov. 1972	
METHOD: Graphic Worksheets				NA			
SCALE: 1:10,000				NA			
HYDRO SUPPORT DATA BY				C.F. Lewis		Nov. 1972	
CHECKED BY				J. Richter		Nov. 1972	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				J.P. Battley		Nov. 1972	
6. APPLICATION OF FIELD EDIT DATA BY				C. Lewis - R. White May 73 & 76			
CHECKED BY				J. Battley - C. Bishop May 73 & 76			
7. COMPILATION SECTION REVIEW BY				C.H. Bishop Dec. 1975		May 1976	
8. FINAL REVIEW BY				C.H. Bishop		Nov. 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. CATRK		MAR 1977	

NOAA FORM 76-36B
(3-72)T-12946
COMPILATION SOURCESU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE GALVESTON		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Atlantic	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES Charlotte Amalie <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 60th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71L(C)963, 964, 965	15 NOV 71	10:48	1:20,000	0.7 ft. above MLW	
71L(C)1033, 1034	20 NOV 71	9:35	1:30,000	0.0 ft. above MLW	
71L(C)1045, 1046, 1047	20 NOV 71	9:53	1:20,000	0.0 ft. above MLW	
71L(C)1050, 1051	20 NOV 71	9:57	1:20,000	0.0 ft. above MLW	
71L(C)1059 - 1061	20 NOV 71	10:02	1:20,000	0.0 ft. above MLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of color photographs of 1971
listed in 1. 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 Contem- porary Survey ✓	EAST T-12947 ✓	SOUTH T-12950 ✓	WEST T-12945 ✓
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REMARKS

NOAA FORM 76-36C (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
T-12946 HISTORY OF FIELD OPERATIONS			
I. <input type="checkbox"/> FIELD INSPECTION OPERATION <input checked="" type="checkbox"/> FIELD EDIT OPERATION			
OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		CDR. Trauschke	1976
2. HORIZONTAL CONTROL		RECOVERED BY	NA
		ESTABLISHED BY	NA
		PRE-MARKED OR IDENTIFIED BY	NA
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
		Verified XXXXXXXXXX BY	LT. Chelgren
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	
		CDR Trauschke/LT Chelgren 4/1976	
7. BOUNDARIES AND LIMITS		SURVEYED OR IDENTIFIED BY	
		NA	
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)			
71L 1046, 1047			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
Data for objects verified are listed under 8. below.			
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 1 Form 76-40, Landmark for Charts			

T-12946

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	Mar. 1973
2. HORIZONTAL CONTROL	RECOVERED BY James W. Davis ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	Mar. 1973
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N.A. LOCATED (Field Methods) BY N.A. IDENTIFIED BY James W. Davis	Mar. 1973
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 James W. Davis	Mar. 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

N.A.

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

71L1061

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

71L1062

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
71L1062	Old sugar mill chimney		

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 Field Edit Report
- 1 Form 76-40 Landmark for Charting
- 1 Discrepancy Print

NOAA FORM 76-36D
(3-72)T-12946
RECORD OF SURVEY USEU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and Along-shore Features	Nov. 1972	Class III Superseded	Nov. 1972	Nov. 1972
Partial Field edit applied	May 1973	South Shore only Superseded	May 1973	Hydro Processing Oct. 1974
Alongshore areas recompiled	Apr. 1976	Awash and subm. coral reef areas recompiled, superseded	2 Apr. 76	
Field edit applied	May 1976	Class I, Superseded	May 1976	
Compilation complete	Nov. 1976	Final	March 1977	
Final Review				

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	2/	Dec. 1976	Form 76-40 (2 landmarks for charting)
1	2/	Dec. 1976	Form 76-40 (1 landmark for deletion)

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 76-40 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
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL

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

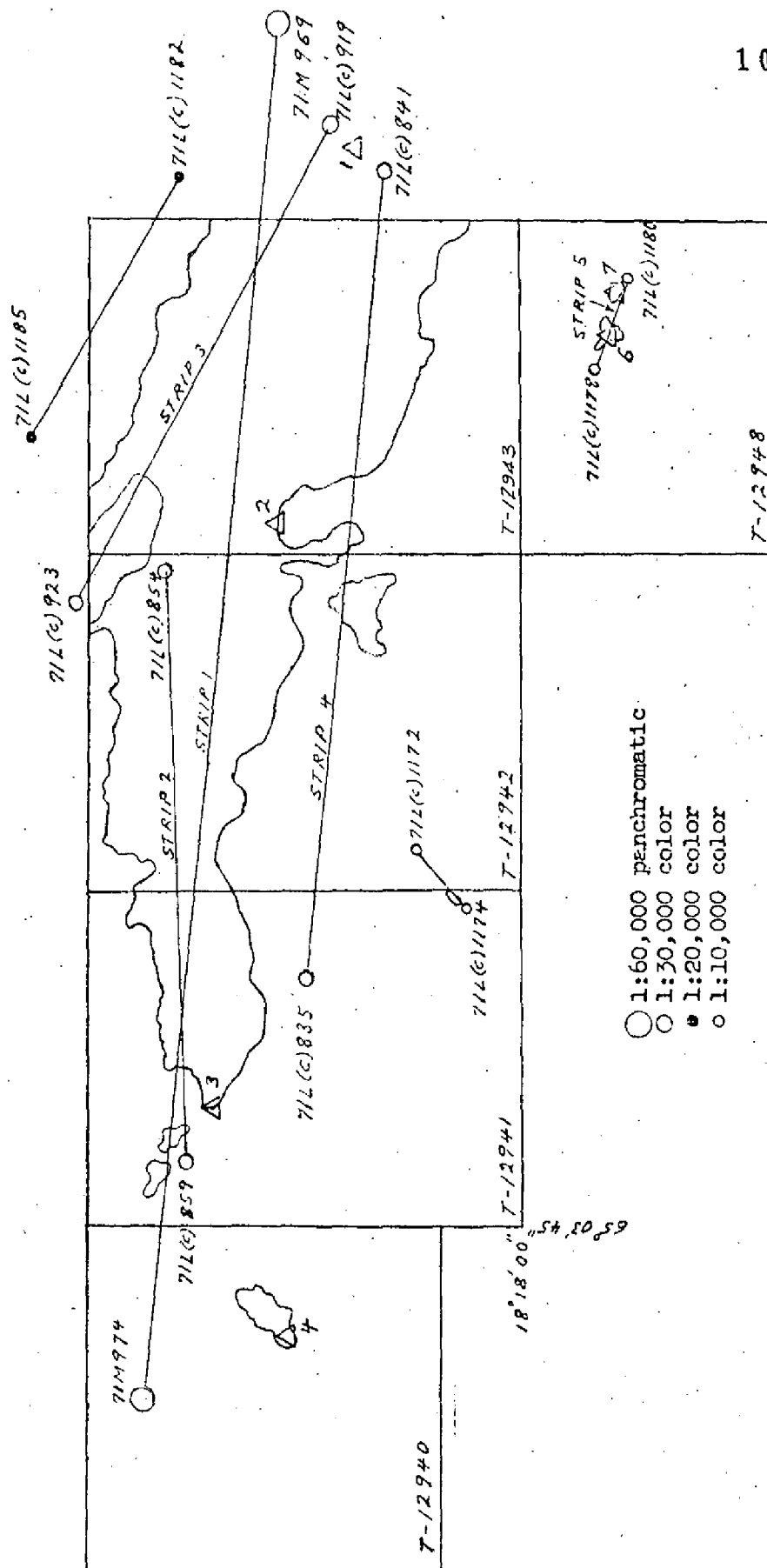
□ 6801 (0.0 0.0)
 6802 (+1.8 +0.4)
 7801 (-0.7 -0.1)
 27801 (-0.2 +2.3)
 9801 (-1.8 -0.9)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)
 10801 (-1.5 +0.9)
 10802 (+0.4 +0.3)
 □ 21801 (0.0 0.0)

STRIP #10

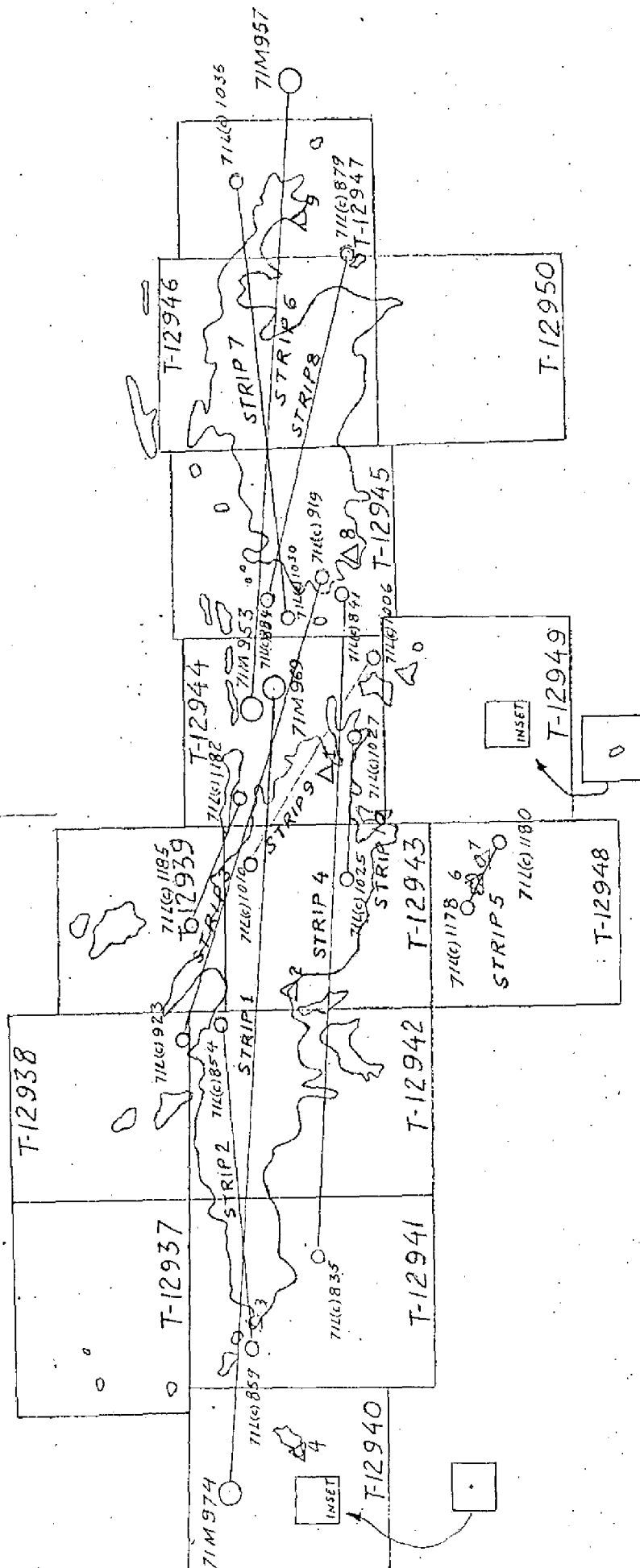
□ 25801 (0.0 0.0)
 25802 (-0.1 +4.5)
 □ 27801 (0.0 0.0)
 41802 (+2.7 +0.3)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)

AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job #H-6504
January 1972

N

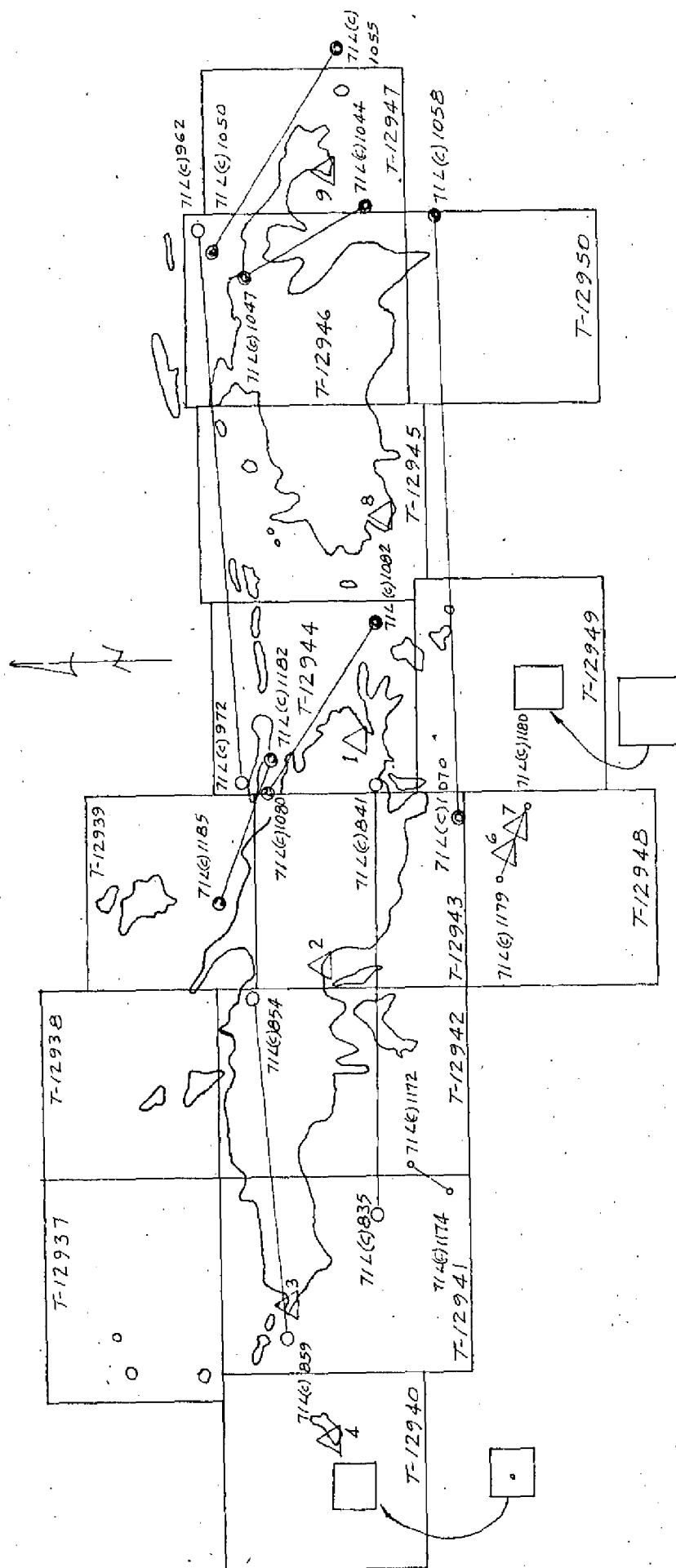


AEROPERCUSSION SKETCH
 VIRGIN ISLANDS
 JOB, PH-6504



- 1:60,000 panchromatic
- 1:50,000 color
- 1:20,000 color
- 1:10,000 color

AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
JOB PH-6504



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.	GEODETIC DATUM	ORIGINATING ACTIVITY	REMARKS
T-12946	PH-6504	N.A. 1927 Puerto Rico	Coastal Mapping Section (Rockville)	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET X Y ZONE	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE
MARY, 1918	PC-23		X= 1 084 477.12 Y= 198 488.92	ϕ λ
JEWEL, 1918	PC-32		X= 1 092 904.51 Y= 197 282.18	ϕ λ
NEED, 1918	PC-32		X= 1 096 389.98 Y= 197 446.76	ϕ λ
BRIT, 1918	PC-32		X= 1 096 554.61 Y= 202 128.19	ϕ λ
MARMIE, 1918	PC-23		X= 1 087 229.34 Y= 190 242.05	ϕ λ
BAT, 1918	PC-33		X= 1 100 063.46 Y= 188 375.30	ϕ λ
LAGOON, 1918	PC-33		X= 1 100 901.79 Y= 184 094.34	ϕ λ
LAM, 1918	PC-32		X= 1 089 887.96 Y= 178 051.47	ϕ λ
NANNY, 1918	PC-33		X= 1 101 165.14 Y= 177 645.60	ϕ λ
PLEASE, 1918	PC-32		X= 1 102 947 Y= 195 597	ϕ λ
COMPUTED BY		DATE	COMPUTATION CHECKED BY	DATE
			C.H. Bishop	11/17/76
LISTED BY		DATE	LISTING CHECKED BY	DATE
		11/17/76	C.H. Bishop	11/17/76
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	DATE

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

copying ✓ C.H.B.

COMPILATION REPORT

T-12946

31. DELINEATION

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

The islands on the northeast edge of sheet are possessions of the United Kingdom and were not delineated.

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 stereoplotter.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

There are no fixed aids to navigation on this manuscript. Two charted landmarks were verified by field edit and one was deleted. See copies of Forms 76-40 bound with this report.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONSSee Form 76-368, Item #5, *bound with this Descriptive Report.*40. HORIZONTAL AND VERTICAL ACCURACY

No comment

41. - 45. Not used.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangles, EASTERN ST. JOHN, V.I., and WESTERN ST. JOHN, V.I., 1:24,000 scale, dated 1958.

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:

C.F. Lewis
C.F. Lewis
Carto. Tech.

Approved:

Jeter P. Battley Jr

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

ADDENDUM TO THE COMPILATION REPORT

Maps T-12946 and T-12947

APPLICATION OF FIELD EDIT:

Field edit south of Lat. $18^{\circ} 20'$ and west of Long. $64^{\circ} 43'$ (T-12946) was applied in the Rockville office in May 1973. This addendum refers to the remainder of edit which was done in May 1976.

Field edit notes on the Discrepancy Prints state that coral reefs and ledges are correct as compiled (ledges and reefs awash). The discussion with CDR. Trauschke and Lt. Chelgren at the time the edit was delivered to the Special Projects Section, AMC brought out the fact that the ledges and reefs symbolized as being awash are, in fact, submerged reef limit and so labeled.

There were no other discrepancies.



Richard R. White
Cartographic Technician
May 13, 1976

GEOGRAPHIC NAMES

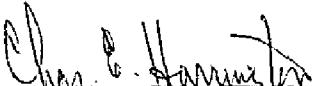
FINAL NAME SHEET

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

T-12946

Annaberg Point	Mardenboro Point
Anna Point	Mary Creek
Borck Creek	Mary Point
Brown Bay	Nanny Point
Coral Bay	Otter Creek
Coral Harbor	Pen Point
Drunk Bay	Popilleau Bay
Europa Bay	Princess Creek
Francis Bay	Reef Bay
Friis Bay	Sabbat Channel
Genti Bay	Sabbat Point
Great Lameshur Bay	St. John
Grootpan Bay	Sanders Bay
Harbor Point	The Narrows
Hurricane Hole	Threadneedle Point
Johns Folly Bay	Turner Point
Johnson Bay	Water Creek
Lameshur Bay	Waterlemon Bay
Leduck Island	Waterlemon Cay
Leinster Bay	White Point
Leinster Point	
Little Lameshur Bay	
Maho Bay	
Maho Point	

Approved


Chas. E. Harrington
Staff Geographer-C51x2

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-12946

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) CHB		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT ELR	11. DETAIL POINTS CHB
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 NA	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
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 CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS CHB
40. REVIEWER Charles H. Bishop Charles H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT J.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 C.F. Lewis (Partial) CFW 5/1973 R.R. White R.R. White 5/1976		SUPERVISOR J.P. Battley (Rockville) 5/1973 J.W. Vonasek (Norfolk)	
43. REMARKS			

FIELD EDIT REPORT
Sheet T-12946
Mary Point to Leduct Island
April 1973

51. METHODS

Field edit was performed in accordance with instructions provided to NOAA Ship Whiting, Job PH 6504, U.S. Virgin Islands.

A visual inspection and verification was made of all shoreline and alongshore features only in the area enclosed by the dashed purple line on the field edit ozalid. The remaining portion of this sheet was not edited because this area was not included in the project limits of hydrography.

52. ADEQUACY OF COMPILATION

Compilation was adequate in shoreline delineation. Various rocks and other features are included on the field edit ozalid in purple ink.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No geographic name discrepancies were found in the area that field edit was performed.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

In the area that field edit was performed, there is one landmark and no nonfloating aids to navigation to be charted. The landmark is a chimney inshore from reef bay.

58. MISCELLANEOUS

Times mentioned on the field edit ozalid refer to Greenwich Mean Time.

Respectfully Submitted,

James W. Davis

James W. Davis

Lt(jg). NOAA

Chief, Sub-unit, Photo Party 62

FIELD EDIT REPORT

Maps T-12946 and T-12947

May 1976

No written report was submitted for the edit done in 1976.

Field edit of these maps was done near low tide (0.3 feet above MLW, predicted) on April 16, 1976 by CDR. Trauschke and Lt. Chelgren of the Ship WHITING. Edit notes were made on color ratio photographs and the Discrepancy Prints with grease pencil. Field edit photographs, one Discrepancy Print each for Maps T-12946 and T-12947, and one Form 76-40, Landmarks for Charts, were delivered to the Special Projects Section, Coastal Mapping Division, AMC by CDR. Trauschke in person on 30 April 1976. At this time, a brief discussion of the field edit ensued. The fact that the MHWL and MLWL are the same or almost the same line was brought out. The notes "Correct as compiled" or "As shown" or other notes with like meaning, applicable to reefs and ledges on the Discrepancy Prints, were verbally ammended to mean that the reefs and ledges are there, but are submerged, rather than a-wash as indicated by the ledge symbol originally mapped.

Charles H. Bishop

Charles H. Bishop
Cartographer
20 May 1976

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<div>ORIGINATOR</div> <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<div>OFFICE ACTIVITY REPRESENTATIVE</div> <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'
(Consult Photogrammetric Instructions No. 64.)

OFFICE	FIELD (Cont'd)
I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<div>ORIGINATOR</div> <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	<div>OFFICE ACTIVITY REPRESENTATIVE</div> <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

FIELD (Cont'd)	
<p>OFFICE</p> <p>I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75</p> <p>FIELD</p> <p>I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant</p> <p>A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75</p> <p>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</p>	<p>B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982</p> <p>II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75</p> <p>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75</p> <p>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</p>

REVIEW REPORT T-12946

SHORELINE

November 17, 1976

61. GENERAL STATEMENT:

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

A comparison print showing differences noted in Par. 62, 63 and 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with 1:20,000 scale reductions of Surveys T-3772 and T-3783, both 1:10,000 scale, and both surveyed in 1919. Significant differences are shown on the comparison print in blue.

In the area compared, T-12946 supersedes T-3772 and T-3783 for nautical chart construction purposes. T-3772 and T-3783 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles WESTERN ST. JOHN, V.I. and EASTERN ST. JOHN, V.I., both 1:24,000 scale and both dated 1958. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Contemporary hydrographic surveys do not cover the area. No comparison was made.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 25641, 1:100,000 scale, 14th edition, dated April 24, 1976. Significant differences are shown in red on the comparison print. The scale of this chart is too small for an adequate comparison with a 1:10,000 scale map.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
17 November 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

D. K. Hylton

Chief, Photogrammetric Branch

James C. Allen

Chief, Coastal Mapping Div.

Y=200,000 FT.

25

2'30"

not visible
on photos
Also on
Chart

MARY, 1918



71L965

M a r y P o i n t

18°22'

Francis
Bay

Y=195,000 FT.

Maho
Pt

Maho Bay

COMPARISON PRINT

Brown = USGS
Blue = T-3772
Red = Chart 25641

21'30"

18°21'30"

64°45'

64°44'30"

T-12946
1:10,000

4'

X=1,090,000 FT

64°43'30"

180°23'

X=1,095,000 FT

43'

BRI

COMPARISON PRINT

Brown = USGS

Blue = T-3772

71 L

71 L 964

Anna Pt

ubm
ral
ef

Leinster Bay

JEWEL
1918Waterlemon
CayLeinster
PtThr
Reef

18°22'


Reef

Subm coral & rocks

Annaberg Pt

Coral Reef

Anash

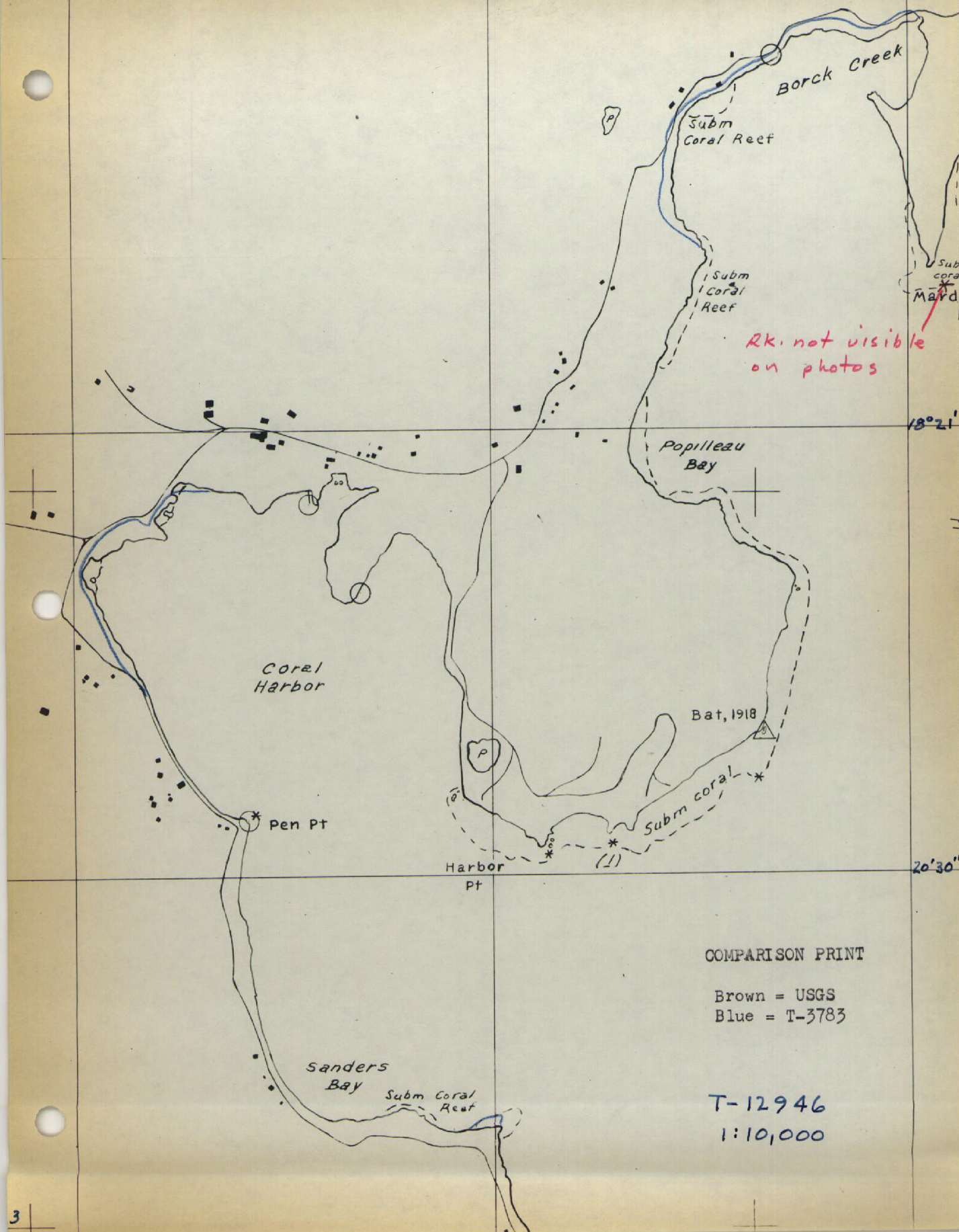
Waterlemon
BayRuin  MILL

(1) (2) (2)

T-12946
1:10,000

64°42'30"

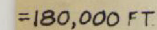
27



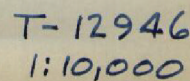
COMPARISON PRINT

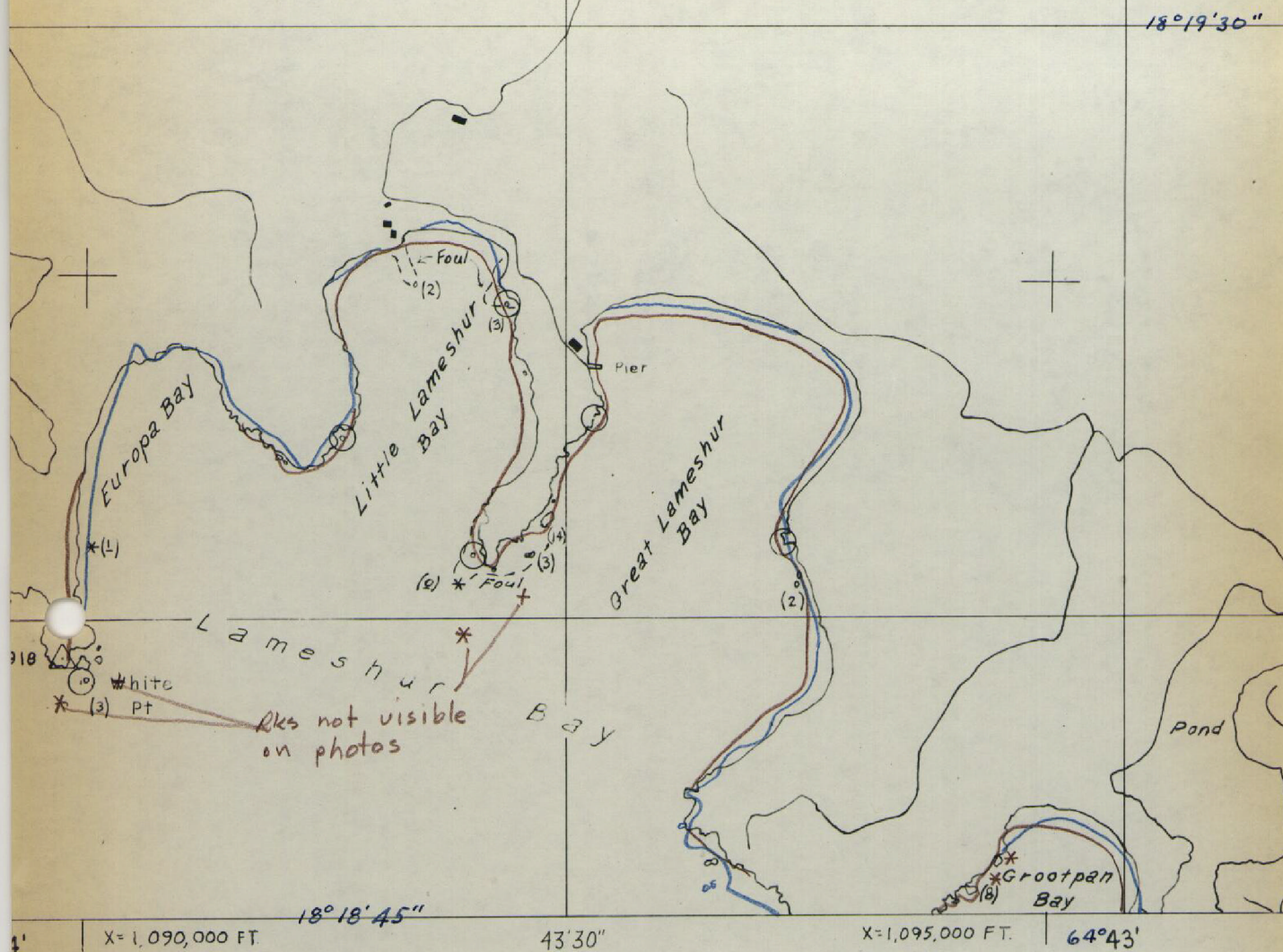
Brown = USGS
Blue = T-3783

T-12946
1:10,000



Blue = T-3772



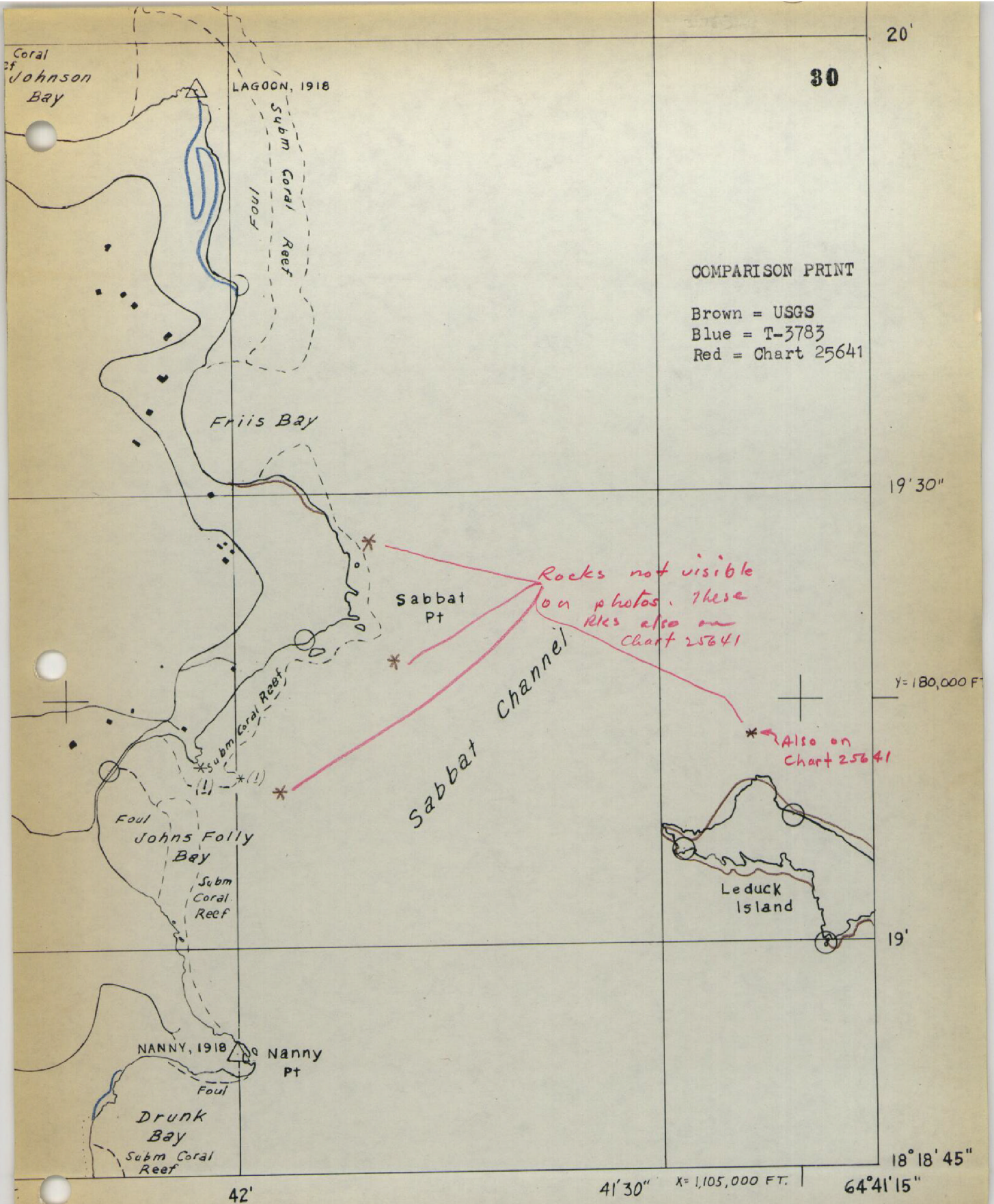


NOTE: Unlabeled circles are photogrammetric plot points; not map features

COMPARISON PRINT

Brown = USGS
Blue = T-3772

T-12946
1:10,000



NATIONAL OCEAN SURVEY
 SHORELINE MANUSCRIPT
 T-12946

T-12946
National Archives Data

2 Discrepancy Prints (Field Edit Sheets)

Photography: 71-L(C) 1046, 1047, 1061, and 1062