

T-12943

ORIGINAL

T-12943

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-12943
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Virgin Islands
General Locality St. Thomas
Locality Magens Bay to Long Point

19 71 TO 19 75

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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Rockville, MD Coastal Mapping Division, Norfolk, VA		SURVEY TP. <u>12943</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final (F.E.)</u> JOB <u>PH-6504</u>	
OFFICER-IN-CHARGE Jack Guth (Rockville) Jeffrey G. Carlen (Norfolk)		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Dec. 14, 1971 Compilation Jan. 25, 1972		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 <u>Puerto Rico</u> ZONE <u>Virgin Islands Extension</u>	
5. SCALE 1:10,000		STATE <u></u> ZONE <u></u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		D. Norman	Dec, 1971
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradi</u> CHECKED BY		NA D. Phillips	Jan, 1972
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		J. Richter	Jan, 1972
INSTRUMENT: <u>B-8</u> CONTOURS BY SCALE: <u>1:15,000</u> CHECKED BY		P. Dempsey	Jan, 1972
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		J. Richter	Jan, 1972
METHOD: <u>Smooth ink drafted</u> CONTOURS BY CHECKED BY		P. Dempsey	Jan, 1972
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		J. Richter	Jan, 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		P. Dempsey	Jan, 1972
6. APPLICATION OF FIELD EDIT DATA BY		J.P. Battley	Jan, 1972
7. COMPILATION SECTION REVIEW BY		R.R. White	Aug, 1975
8. FINAL REVIEW BY		C.H. Bishop	Dec, 1975
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		C.H. Bishop	Dec, 1975
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		C.H. Bishop	Oct, 1976
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E.L. Rolle	Jan, 1977
12. MAP REGISTERED - COASTAL SURVEY SECTION BY		R.T. CATDK	March 1977

NOAA FORM 76-36B
(3-72)

T-12943

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L", "E", & "Z"		RC-10		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> 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) 919 - 923	Nov 15,71	10:15	1:30,000	0.5 ft. above MLW			
71L(C) 839 - 841	Nov 15,71	09:06	1:30,000	0.8 ft. above MLW			
72E(C) 7573 - 7574	Nov 25,72	08:45	1:12,000	+0.9 ft. above MLW			
72E(C) 7530 - 7536	Nov 23,72	16:15	1:12,000	+1.1 ft. above MLW			
74Z(C) 7121 - 7124	Feb 12,74	09:11	1:12,000	+ .57 ft. above MLW			
74Z(C) 6990	Feb 11,74	15:33	1:12,000	+ .41 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:

Mean high water line was compiled from office interpretation of the above listed photographs.

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	EAST	SOUTH	WEST
T-12939 ✓	T-12944 ✓ T-12949	T-12948 ✓	T-12942 ✓
REMARKS			

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12943
HISTORY OF FIELD OPERATIONSI. ☒ 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 PRE-MARKED BY R.S. Tibbetts	1971
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 NA	
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 ☒ 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)

CSI Card

T-12943
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 ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N/A	
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N/A	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	N/A	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION BY		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	Robert S. Tibbetts	Feb. 1975
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

71 L(C)1206

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)

Field Edit Report
Discrepancy Print

T-12943
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and alongshore features	Jan, 1972	Class III Superseded	Jan, 1972	Jan, 1972
North shore details adjusted by photobathymetry using 2/74 photo	Dec, 1974	Class III Superseded	Dec, 1974	
1975 Field edit applied, compilation complete	Aug, 1975	Class I Superseded	Aug, 1975	
Final Review	Oct, 1976	Final	March 1977	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	24	Dec. 1976	Form 76-40 for Fixed Aids (2)

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:

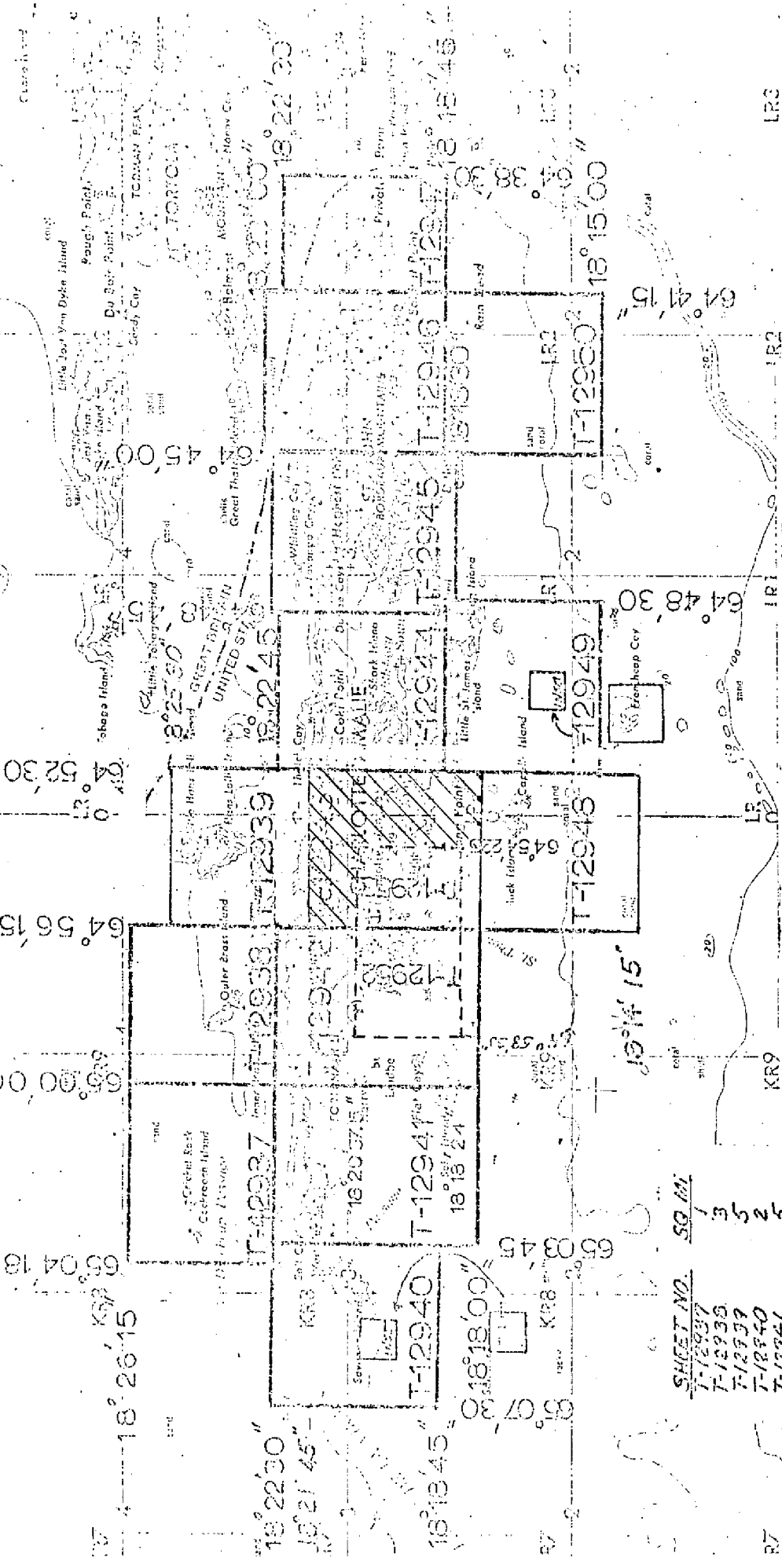
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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	
	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	



VIRGIN ISLANDS



JOB PH-6504

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

SHEET NO.	SQ. MI.
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.

Respectfully submitted:

Don O. Norman

James E. Schad

Don O. Norman, Cartographer

James E. Schad, Cartographer

Approved and Forwarded:

John D. Perrow, Jr.

John D. Perrow, Jr.

Acting Chief

Aerotriangulation Section

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)
 ■ 56801 (+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)

IP #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)

IP #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)

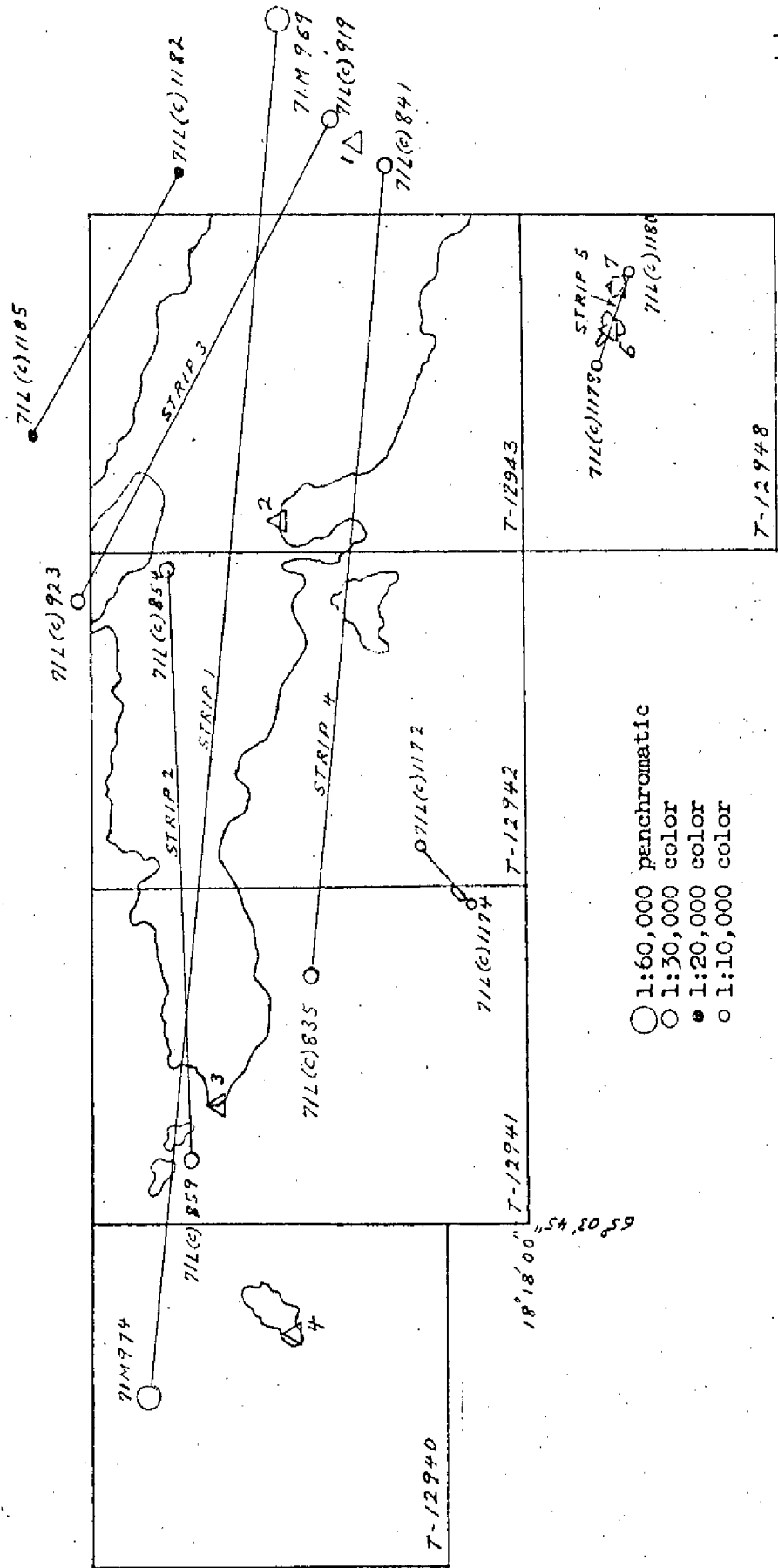
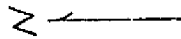
STRIP #9

□ 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)

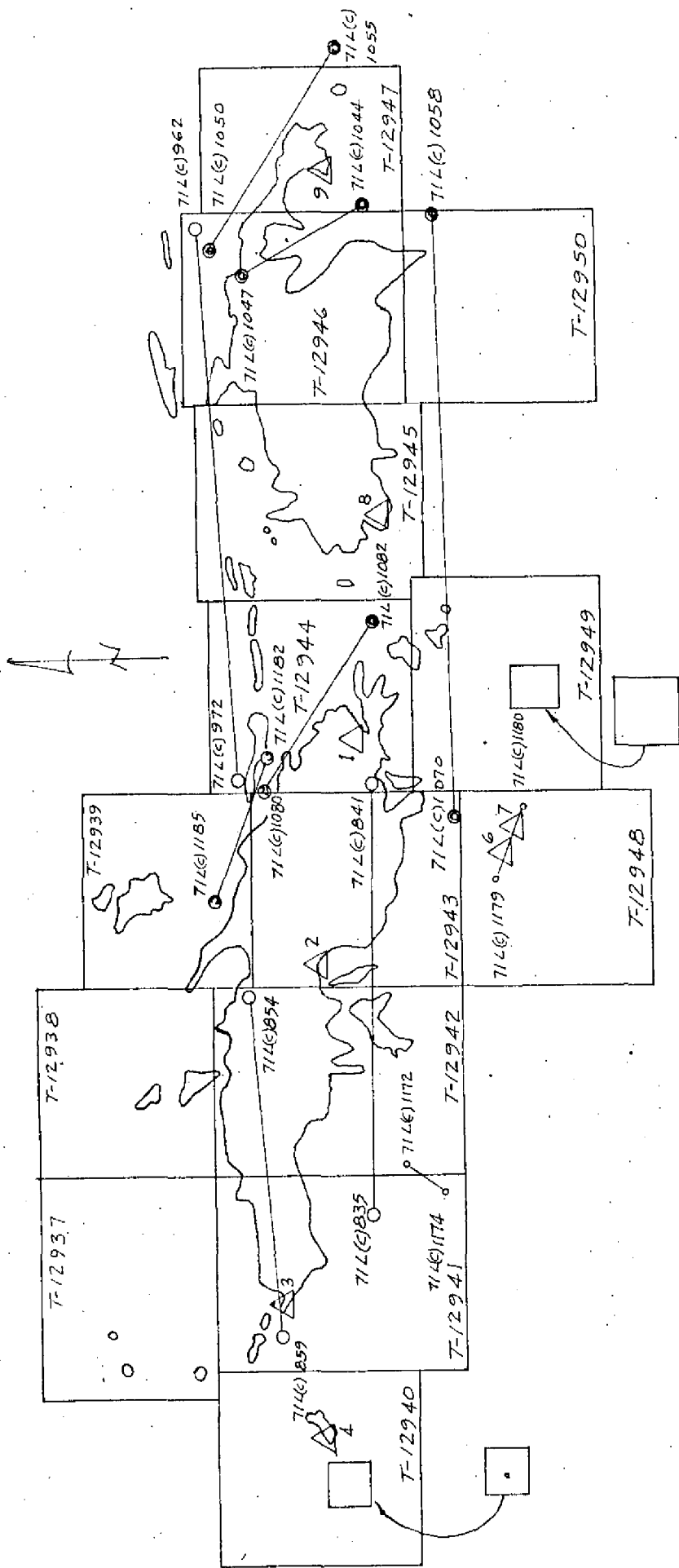
AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job FH-6504
January 1972



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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.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY Coastal Mapping Division, Norfolk, VA	
			PH-6504	Source of Information (Index)		STATE Puerto Rico Zone Virgin Islands Ext.	X	Y	ϕ LATITUDE λ LONGITUDE	REMARKS FORWARD BACK	
T-12943	COCUL, 1918	P.C. Pg. 34				X= 1,032,336	ϕ				
						Y= 176,026	λ				
	GREEN, 1918	P.C. Pg. 30				X= 1,028,817.16	ϕ				
						Y= 175,994.81	λ				
	BLACK (BLACKBEARDS CASTLE), 1918	P.C. Pg. 30				X= 1,021,320.43	ϕ				
						Y= 188,226.32	λ				
	FORT CHRISTIAN, FLAGSTAFF, 1900	G.P. Pg. 79				X= 18 20 32.238	ϕ			991.1 (853.5)	
						Y= 64 55 49.103	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
						X=	ϕ				
						Y=	λ				
COMPUTED BY						COMPUTATION CHECKED BY Charles H. Bishop				DATE 12/12/75	
LISTED BY	Charles H. Bishop					LISTING CHECKED BY Charles H. Bishop				DATE 12/12/75	
HAND PLOTTING BY						HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT

T-12943

31. DELINEATION:

1:30,000 scale color photography was set on the B-8 stereoplotter to delineate shoreline, shoreline features, landmarks, and aids to navigation. Sufficient passpoints were dropped along the shoreline to position hydrographic signals. The area south of Latitude $18^{\circ} 20' 37.5''$ and west of Longitude $64^{\circ} 54' 37.5''$ was mapped at 1:5,000 scale as T-12953 in 1966.

32. CONTROL:

Horizontal control was adequate for density and placement.
Refer to the Photogrammetric Plot Report bound with this Descriptive Report.
Vertical control, no comment.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from 1:30,000 scale color photographs set on the B-8 stereoplotter.

36. OFFSHORE DETAILS:

No comment.

37. LANDMARKS AND AIDS:

No landmarks. Aids to navigation were plotted from B-8 stereoplotter and are to be verified by field edit.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

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

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

41 thru 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with U.S.G.S. Quadrangles eastern St. Thomas, V. I., 1954, scale 1:24,000 and central St. Thomas, V. I., 1955, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 938, scale 1:15,000, 4th edition, dated October 10, 1970 and with Chart 905, scale 1:100,000, 9th edition dated May 1, 1971.

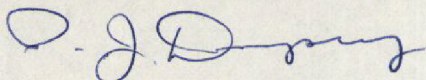
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

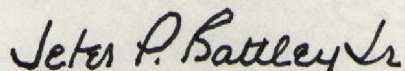
None.

Respectfully Submitted,



P. J. Dempsey
Cartographer

Approved and forwarded:




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

ADDENDUM TO COMPILATION REPORT

T-12943

When photobathymetry was compiled, corrections were made to the mean high water line where necessary to keep it inshore of the mean low water line. Determination of the mean high water line from the photobathymetry photographs was considered more accurate.



Arnold L. Shands
Cartographer

GEOGRAPHIC NAMES


FINAL NAME SHEET

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

T-12943

Bolongo Bay
Bolongo Point
Bovoni Bay
Caribbean Sea
Coculus Point
Frenchman Bay
Green Cay
Leeward Passage
Little Coculus Bay
Long Point
Magens Bay
Mangrove Lagoon
St. Thomas
Spring Bay
Spring Point
Stalley Bay
Sunki Bay
Sunki Point
Thatch Cay
Tutu Bay

Approved


Chas. E. Harrington
Staff Geographer-C51x2

NOAA FORM 75-74 (2-74)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T-12943			
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 CHB	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 CHB	17. LANDMARKS NONE	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES NA 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 CHB
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS NONE	29. RAILROADS NA	30. OTHER CULTURAL FEATURES NA CHB
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 JPB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS CHB	39. FORMS CHB
40. REVIEWER Charles H. Bishop C.H. Bishop Dec 12, 1975		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. R.R. White			
COMPILER R.R. White Aug, 1975 Charles H. Bishop		SUPERVISOR Joseph W. Vonasek	
Reviewer: C. H. Bishop Dec, 1975		Joseph W. Vonasek	
43. REMARKS Aids to navigation were not verified during field edit. The assumption was made that the small bays at the north edge of the map were edited when T-12939 and T-12944 were edited. There were no corrections in these areas.			

Field Edit Report
Virgin Islands, 1975
Job ~~CM-7304~~ PH-6504
Sheet T-12943

51. METHODS

Field edit was accomplished from water and with minor changes indicated.

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-12943

SHORELINE

October 29, 1976

61. GENERAL STATEMENT:

See Summary which is Page ~~6~~⁷ of this Descriptive Report.

The area west of Longitude $64^{\circ} 54' 37.5''$ and south of Latitude $18^{\circ} 20' 37.5''$ was compiled on 1:5,000 scale Survey T-12953.

A comparison print showing differences noted in Paragraph 63, 64 and 65 is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic survey covering this area was available at the time of final review. No comparison was made.

In the area mapped, T-12943 supersedes any prior registered survey that may exist for nautical chart construction purposes.

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. In general, it appears that the datum of the quadrangles is slightly north of the photogrammetric map datum. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The south shore west of Longitude $64^{\circ} 54'$ was compared with a copy of the hydro-plot for Survey H-9271 (WH-10-1-72). Significant differences are shown in purple on the comparison print.

The south shore east of Longitude $64^{\circ} 54'$ was compared with the verified smooth sheet for Survey H-9353 (WH-10-1-73) and the north shore was compared with the preliminary sounding overlay for Survey H-9514 (WH-10-2-75). No significant differences with these surveys were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

The south shore west of Longitude $64^{\circ} 54'$ was compared with Chart 25649, 1:10,000 scale, 12th edition, dated March 6, 1976. Significant differences are shown on the comparison print in red. The remainder of the area mapped was compared visually with Chart 25641, 1:100,000 scale, 14th edition, dated April 24, 1976. No significant differences were noted: the chart 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 for Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 29, 1976

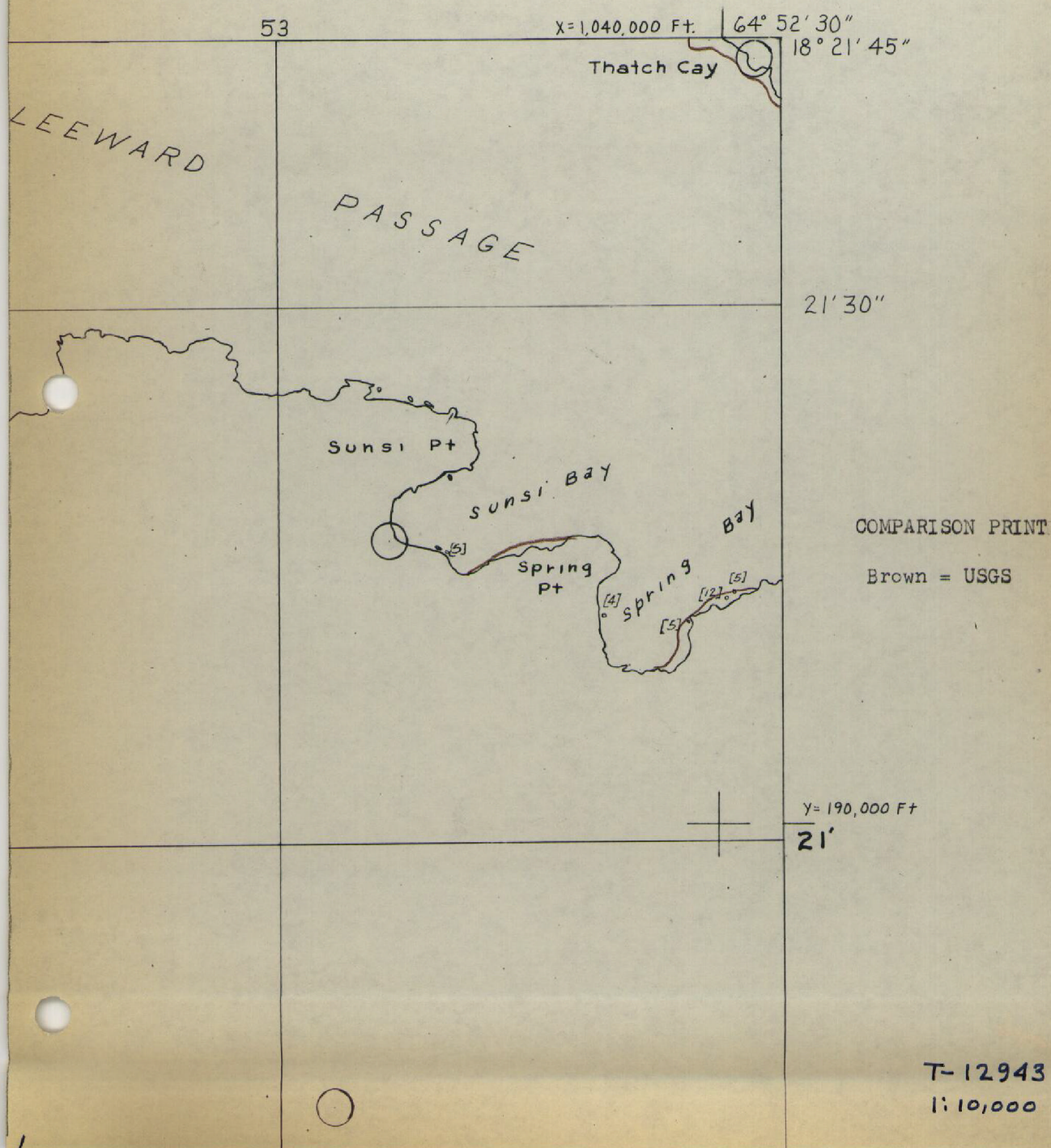
Approved for forwarding:

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

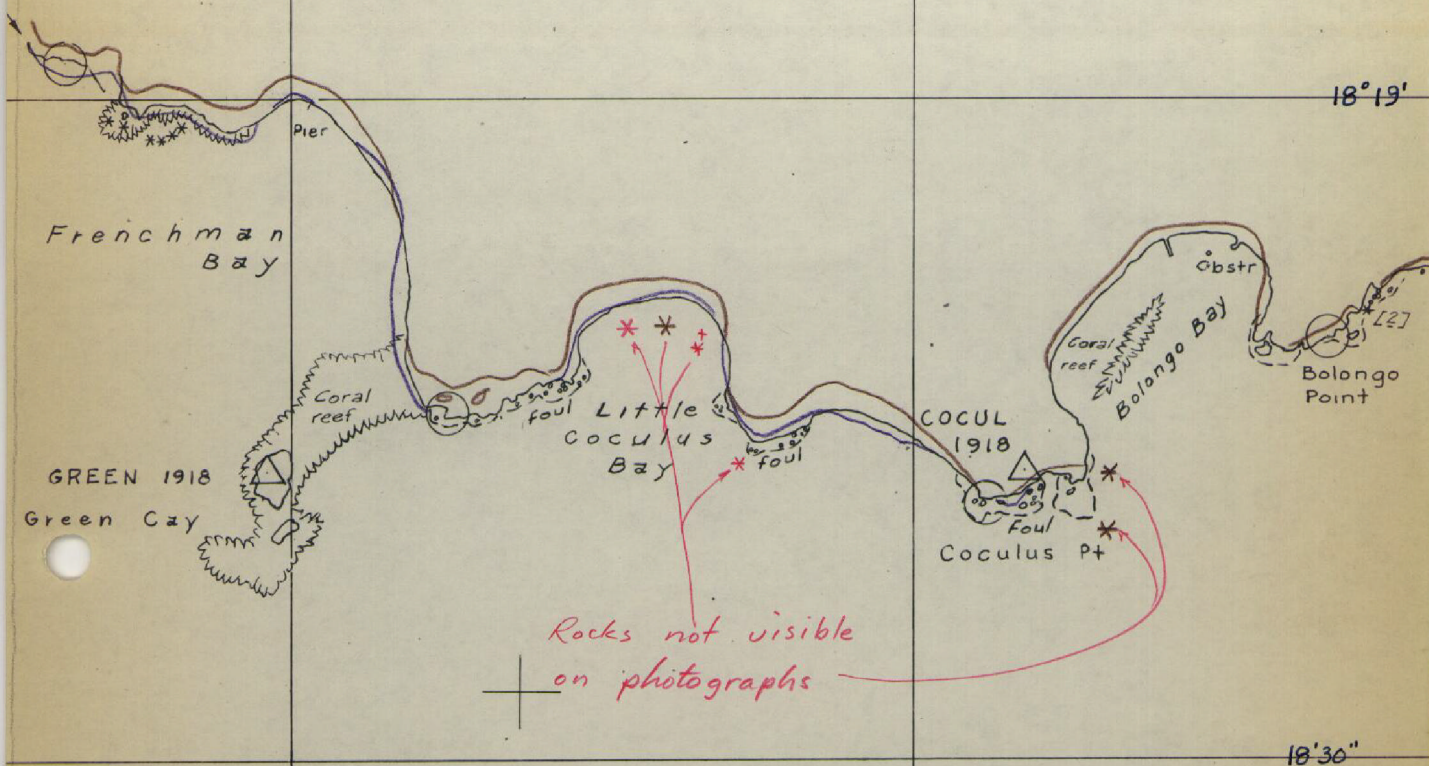
Approved:

AK Rydool
Chief, Photogrammetric Branch

James L. Lott
Chief, Coastal Mapping Division



to west
and south of
compiled on
2953.



COMPARISON PRINT

Brown = USGS
Purple = H-9271
Red = Chart 25649

I B B E A N S E A

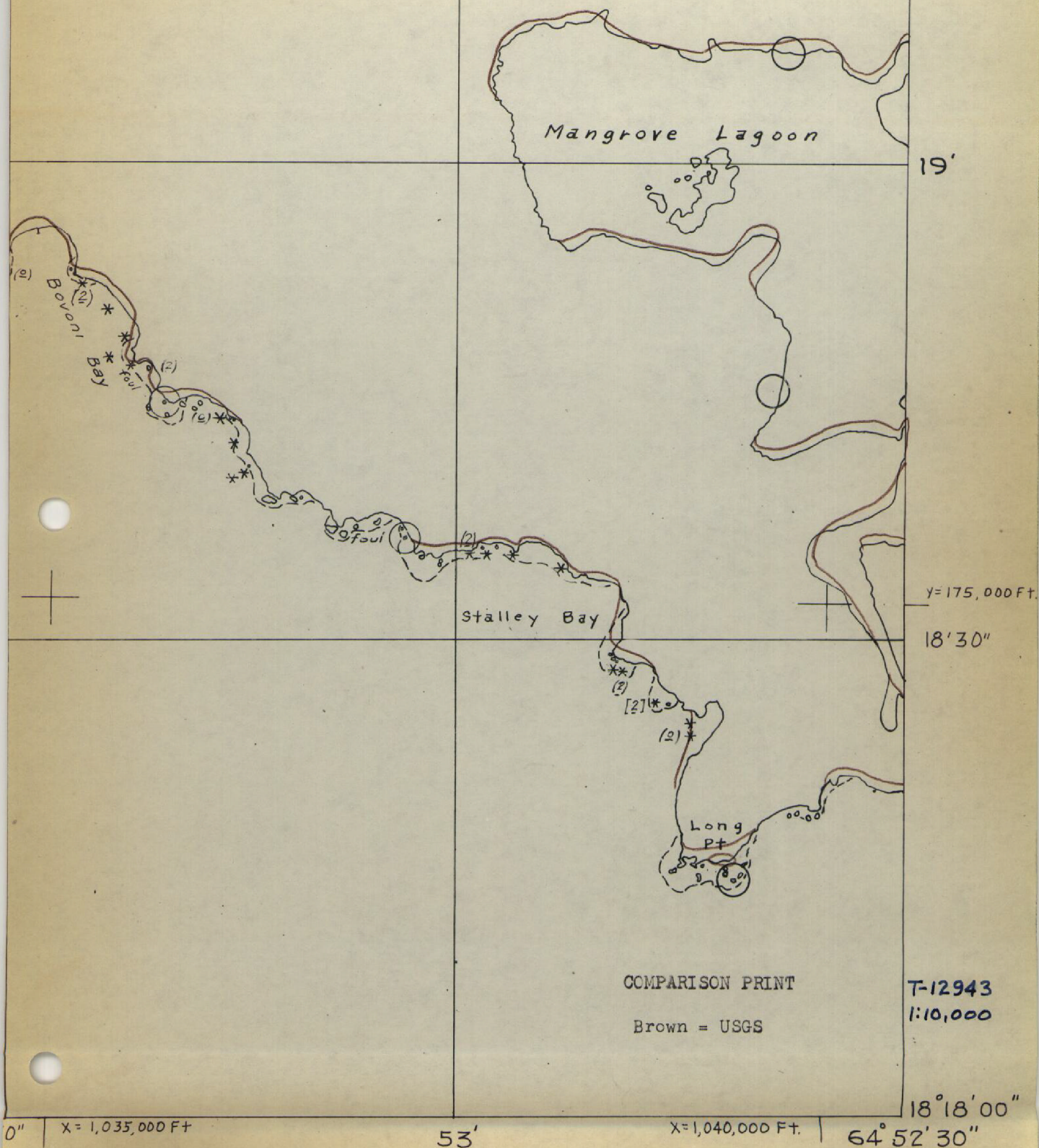
T-12943
1:10,000

54'30"

X=1,030,000 Ft

64°54'

18°18'00"



T-12943
National Archives Data

1 Discrepancy Print (Field Edit Sheet)

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

Photography: 71-L(C) 1206