

T-12945

T-12945

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-12945
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Virgin Islands
General Locality St. John
Locality Congo Cay to Reef Bay

19 72 TO 19 75

REGISTRY IN ARCHIVES

DATE

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY ~~NO.~~ T-12945

MAP EDITION NO. (1)

MAP CLASS Final (F.E.)

JOB PH- 6504

DESCRIPTIVE REPORT - DATA RECORD

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

December 14, 1971 Aerotriangulation
January 25, 1972 Compilation
~~November 15, 1972 Supplement I~~

2. FIELD

October 18, 1971

Nov. 15, 1972 - Supplement I

II. DATUMS

1. HORIZONTAL:

☐ 1927 NORTH AMERICAN

OTHER (Specify)

Puerto Rican 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, J. Shad	Aug. 1972
METHOD: Analytical	LANDMARKS AND AIDS BY	NA	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	D. Phillips	July 1972
METHOD: Coradimat	CHECKED BY	D. Phillips	July 1972
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	J. Richter, P. Dempsey	Oct. 1972
COMPILATION	CHECKED BY	J.P. Battley	Oct. 1972
INSTRUMENT: B-8	CONTOURS BY	NA	
SCALE: 1:15,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J.C. Richter	Nov. 1972
	CHECKED BY	P. Dempsey	Nov. 1972
	CONTOURS BY	NA	
METHOD: Graphic Worksheets	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	J.C. Richter	Nov. 1972
SCALE: 1:10,000	CHECKED BY	P. Dempsey	Nov. 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P. Battley	Nov. 1972
6. APPLICATION OF FIELD EDIT DATA	BY	R. Rich, R. White	Apr. 73/Aug 75
	CHECKED BY	J.P. Battley	Apr. 1973
7. COMPILATION SECTION REVIEW	BY	C. Bishop	Nov. 1975
8. FINAL REVIEW	BY	C. 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	K.T. CATDE	MAR 1977

ESSA FORM 76-36B
(2-70)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEYT-12945
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8 "L" & "E"; RC-10 "Z"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		<input checked="" type="checkbox"/> (C) <u>COLOR</u> (P) PANCHROMATIC (I) INFRARED		ZONE	<input type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Atlantic	<input type="checkbox"/> DAYLIGHT
MERIDIAN				60	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71 L(O) 883 thru 884	15 Nov 1971	09:43	1:30,000	1.2 ft. above MLW
71 L(O) 966 " 968	"	10:50	1:20,000	1.0 ft. above MLW
71 L(O) 1031 " 1032	20 Nov 1971	09:34	1:30,000	1.5 ft. above MLW
71 L(O) 1062 " 1064	"	10:04	1:20,000	0.9 ft. above MLW
* 72 E(O) 7485 " 7494	23 Nov 1972	15:50	1:12,000	1.0 ft. above MLW
* 72 E(O) 7514 " 7526	"	15:58	1:12,000	0.7 ft. above MLW
* 74 Z(O) 7019 " 7021	11 Feb 1974	15:56	1:12,000	0.2 ft. above MLW
* 74 Z(O) 7086 " 7087	12 Feb 1974	08:50	1:12,000	0.4 ft. above MLW
* 74 Z(O) 7103 " 7107	1 "	09:00	1:12,000	0.4 ft. above MLW
* 74 Z(O) 7113 " 7114	"	09:08	1:12,000	0.5 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:

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 contemporary survey	EAST	T-12946 T-12950	SOUTH	No contemporary survey	WEST	T-12949 T-12944
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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-12945

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	1971
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R. S. Tibbetts NA R. S. Tibbetts
		Oct. 1971
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	NA NA NA
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	NA
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
None2. VERTICAL CONTROL IDENTIFIED
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 Form 152 OSI Card

ESSA FORM 76-36c
(2-70)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

T-12945

HISTORY OF FIELD OPERATIONS T-12945

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

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

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
N.A.		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

71L884, 71L1082, 71L1064, 71L1063, and 71L1062

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

71L884

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
71L884	Cruz Bay Light		

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).

2 Form 76-40 Landmarks and Aids

one Form 157 Position of Intersection Station

2 Form 470 Abstract of Directions

2 Form 24A List of Directions

1 Field Edit Report

1 Discrepancy Print

1 Form 527, Description of Recoverable Topo Station

~~8/8~~ 4.

NOAA FORM 76-36C
(3-72)

T-12945

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION

☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	1975
2. HORIZONTAL CONTROL	RECOVERED BY Robert S. Tibbetts ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	Feb. 1975
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 Robin D. Wells	Feb. 1975
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
	Q		

3. PHOTO NUMBERS (Clarification of details)

71 L(0) 966

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 Field Edit Report
- 2 Discrepancy Prints ✓
- 3 Form 76-72 List of Directions ✓

NOAA FORM 76-36C
(3-72)

RECORD OF SURVEY USE

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 S. & E. of Steven Cay	Oct. 1974	Class III Superseded	Oct. 1974	Hydro Processing Oct. 1974
1975 Field edit applied Compilation complete	Aug. 1975	Class I Superseded	Aug. 1975	
Final Review	Nov. 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
2	1648-74	12/3/74	

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

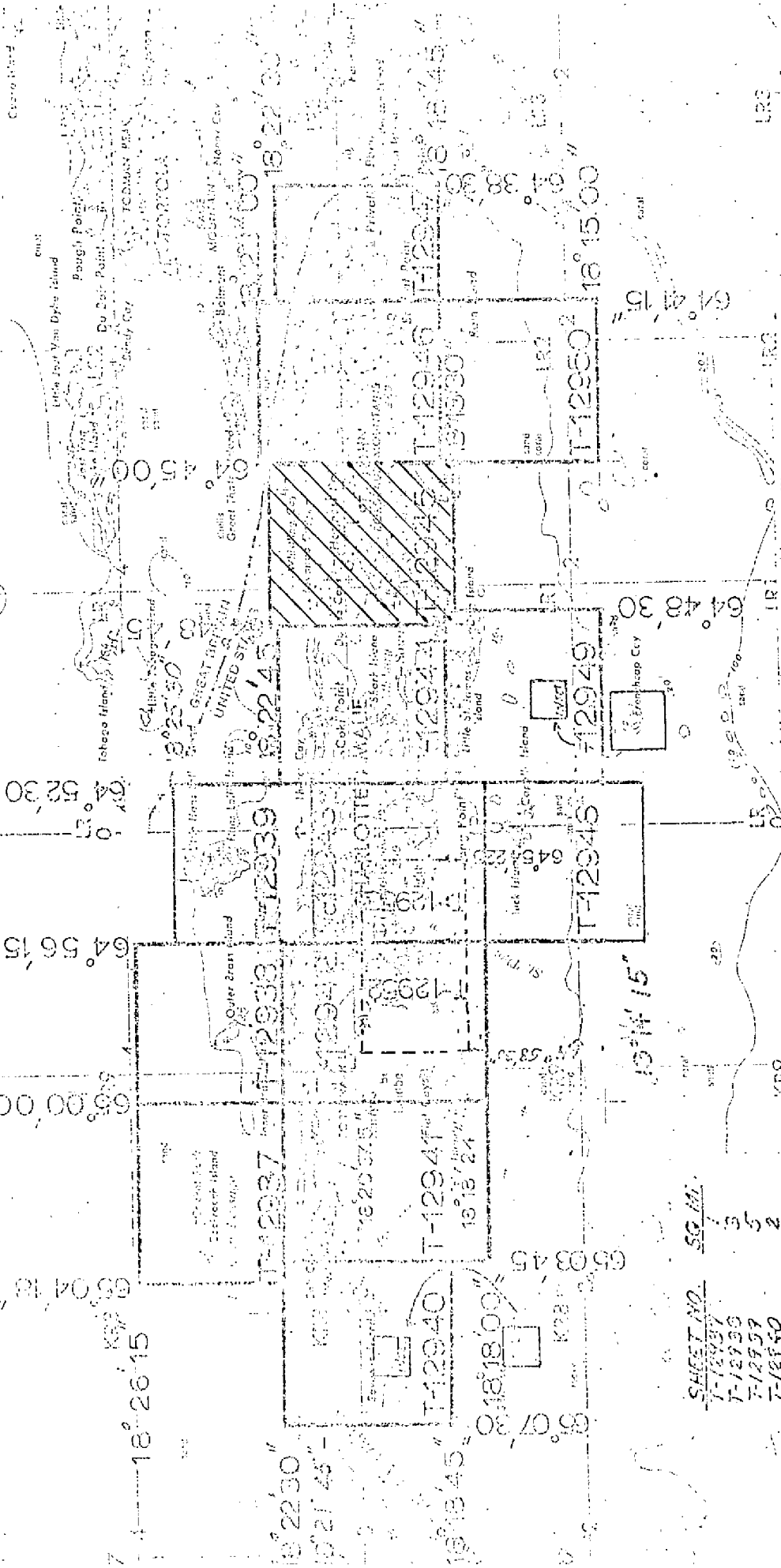
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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 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.	SG. MI.
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
T-12952	16
T-12953	17
T-12954	18
T-12955	19
T-12956	20
T-12957	21
T-12958	22
T-12959	23
T-12960	24
T-12961	25
T-12962	26
T-12963	27
T-12964	28
T-12965	29
T-12966	30
T-12967	31
T-12968	32
T-12969	33
T-12970	34
T-12971	35
T-12972	36
T-12973	37
T-12974	38
T-12975	39
T-12976	40
T-12977	41
T-12978	42
T-12979	43
T-12980	44
T-12981	45
T-12982	46
T-12983	47
T-12984	48
T-12985	49
T-12986	50
T-12987	51
T-12988	52
T-12989	53
T-12990	54
T-12991	55
T-12992	56
T-12993	57
T-12994	58
T-12995	59
T-12996	60
T-12997	61
T-12998	62
T-12999	63
T-13000	64

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

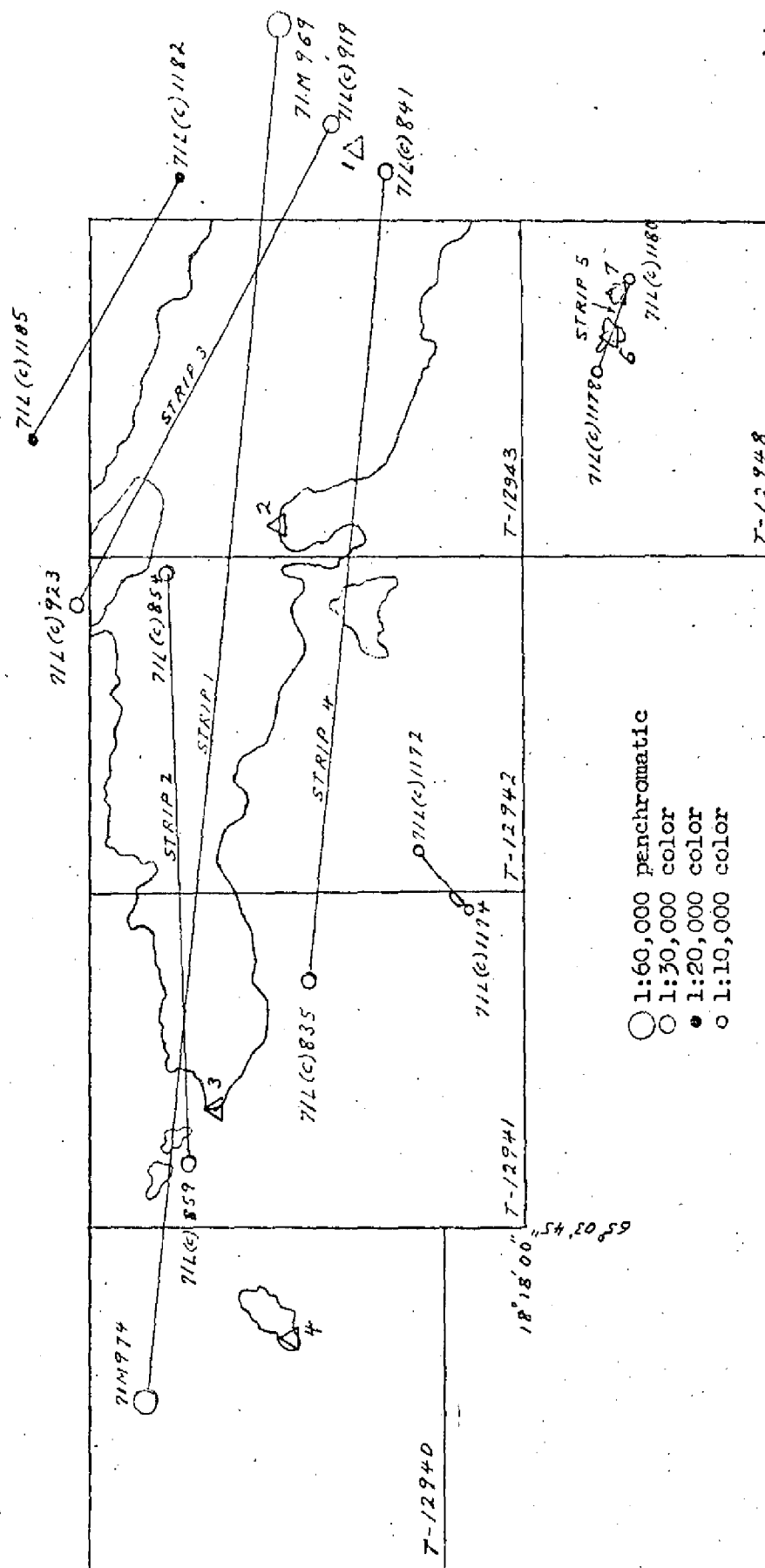
□ 6801 (0.0 0.0)
 6802 (+1.8 +0.4)
 7801 (-0.7 -0.1)
 27801 (-0.2 +2.3)
 9801 (-1.8 -0.9)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)
 10801 (-1.5 +0.9)
 10802 (+0.4 +0.3)
 □ 21801 (0.0 0.0)

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)

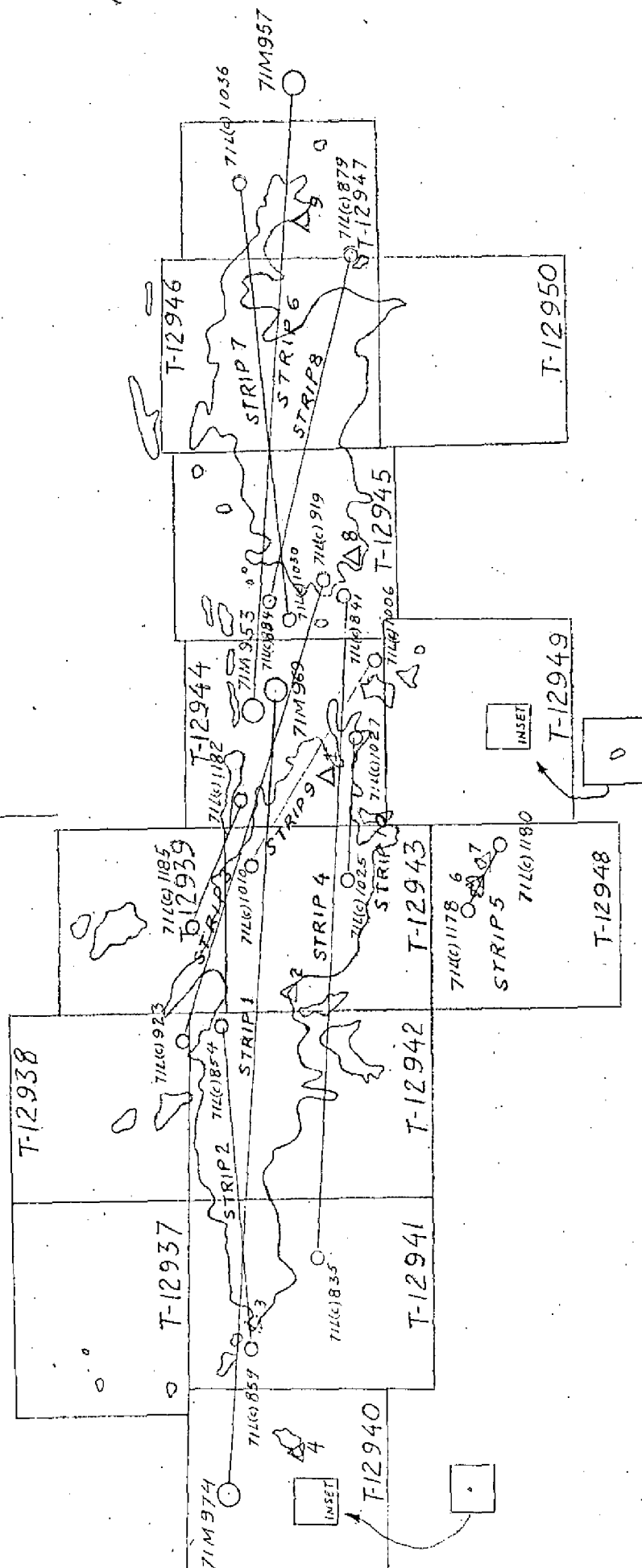
AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job PH-6504
January 1972

N

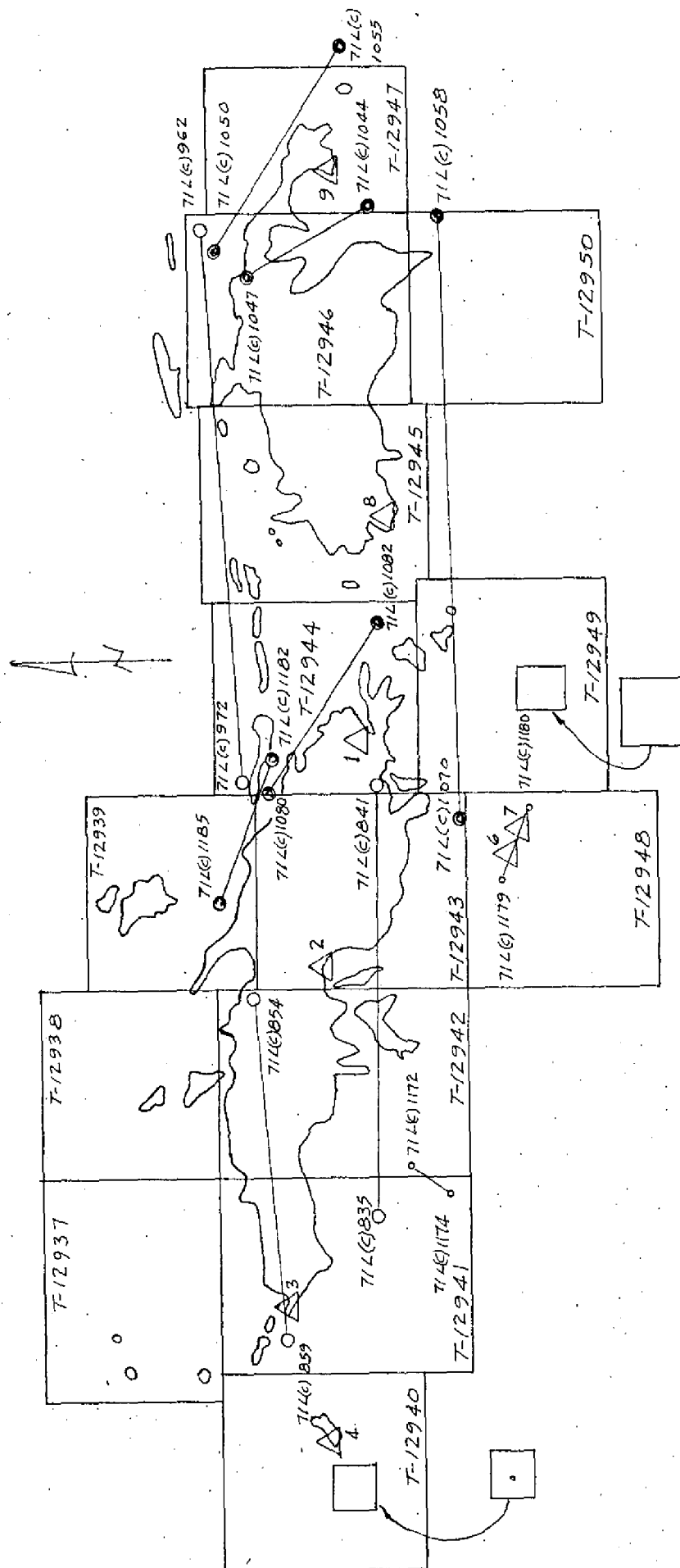


新

☐ 1:60,000 panchromatic
☐ 1:30,000 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.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
			STATE	ZONE		O	φ LATITUDE λ LONGITUDE "			
T-12945		GM-7304 PH-6504		Puerto Rico						Forward
	CARVAL, 1918	GP Pg. 82	X=				φ 18 22 17.898			550.3
			Y=				λ 64 47 40.613			1192.2
	WHISTLE, 1918	GP Pg. 83	X=				φ 18 22 17.499			538.0
			Y=				λ 64 45 39.054			1146.5
	LOVANGO, 1918	GP Pg. 61	X=				φ 18 21 55.443			1704.5
			Y=				λ 64 48 04.476			131.4
	CINNAMON, 1918	GP Pg. 87	X=				φ 18 21 30.13			926.3
			Y=				λ 64 45 24.38			715.7
	AMERICA, 1918	GP Pg. 83	X=				φ 18 21 20.63			634.2
			Y=				λ 64 45 01.46			42.9
	PERKINS, 1918	GP Pg. 82	X=				φ 18 21 21.914			673.7
			Y=				λ 64 46 39.293			1153.6
	ISLE, 1918	GP Pg. 81	X=				φ 18 21 19.708			605.9
			Y=				λ 64 47 37.018			1086.8
	SOLOMAN, 1918	GP Pg. 61	X=				φ 18 20 20.504			630.4
			Y=				λ 64 47 14.199			416.9
	CAMEL, 1918	GP Pg. 61	X=				φ 18 20 20.175			620.3
			Y=				λ 64 45 13.631			400.2
	ST. JOHN GOVERNMENT HOUSE, GABLE, 1918	GP Pg. 82	X=				φ 18 20 03.56			109.4
			Y=				λ 64 47 44.79			1315.2
COMPUTED BY	C.H. Bishop		DATE	11/4/74		COMPUTATION CHECKED BY	C.H.B.		DATE	12-7-76
LISTED BY	C.H. Bishop		DATE	12/7/76		LISTING CHECKED BY	C.H. Bishop		DATE	12/7/76
HAND PLOTTING BY			DATE			HAND PLOTTING CHECKED BY			DATE	

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY		
T-12945	GM-7304- PH-6504	Puerto Rico	Coastal Mapping Division, (Norfolk)		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
MAY, 1918	GP Pg. 60		X= Y=	ϕ 18 19 50.288 λ 64 48 26.366	1546.1 774.2
GIFT, 1918	GP Pg. 61		X= Y=	ϕ 18 19 39.064 λ 64 46 22.596	1201.0 663.5
BAKE, 1918	GP Pg. 61		X= Y=	ϕ 18 19 04.308 λ 64 47 21.561	132.4 633.1
REND, 1918	GP Pg. 81		X= Y=	ϕ 18 18 49.964 λ 64 46 53.897	1536.1 1582.7
BUL, 1918	GP Pg. 86		X= Y=	ϕ 18 18 45.91 λ 64 46 55.09	1411.5 1617.5
DIT, 1918	GP Pg. 61		X= Y=	ϕ 18 18 47.810 λ 64 45 59.122	1469.9 1736.2
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
			X= Y=	ϕ λ	
COMPUTED BY	C.H. Bishop	DATE	COMPUTATION CHECKED BY	CAB	DATE
LISTED BY	C.H. Bishop	DATE	LISTING CHECKED BY	C.H. Bishop	DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

COMPILATION REPORT

T-12945

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.

1:20,000 scale color photography had to be used to delineate islands on NW corner of sheet. Sufficient pass points were dropped along the shoreline for hydro support.

32. CONTROL

Horizontal control was adequate for density and placement. Vertical control, no comment. *Refer to the Photogrammetric Plot Report 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 compiled from 1:30,000 and 1:20,000 scale color photography set on the B-8 stereoplotter.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

1 Landmark, 2 Aids to Navigation (*See Form 76-40 bound with this Descriptive Report*)

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 comment

41. - 45. Not used.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangles
EASTERN ST. THOMAS, 1954 and WESTERN ST. JOHN, V.I.
1958, scale, 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 938, scale 1:15,000,
4th edition Oct. 10, 1970.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

for Edward L. Rolle
J.C. Richter
Carto. (Photo)

Approved:

Jeter P. Battley Jr


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

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12945

America Point	Frank Bay	Reef Bay
Atlantic Ocean	Fungi Passage	Rendezvous Bay
Blasbalg Point	Great Cruz Bay	St. John
Blunder Rocks	Hart Bay	Salomon Bay
Boatman Point	Hawksnest Bay	Skipper Jacob Rock
Bovocoap Point	Hawksnest Point	Steven Cay
Caneel Bay	Hawksnest Rock	Trunk Bay
Caribbean Sea	Henley Cay	Trunk Cay
Carval Rock	Johnson Reef	Turner Bay
Chocolate Hole	Jumble Bay	Turtle Bay
Cinnamon Bay	Klein Bay	Whistling Cay
Cinnamon Cay	Lind Point	Murder Rock
Cocoloba Cay	Lovango Cay	
Congo Cay	Lovango Channel	
Constant Point	Maria Bluff	Approved
Cruz Bay (locality)	Mary Point	
Cruz Bay	May Point	
Denis Bay	Mingo Rock	Chas. E. Harrington
Devers Bay	Monte Bay	Staff Geographer-C51x2
Dittlif Bay	Moravian Point	
Dittlif Point	Perkins Cay	
Durloe Cays	Peter Bay	
Durloe Channel	Ramgoat Cay	
Fish Bay	Rata Cay	

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T - 12945

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 CHB		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA P.D.	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 CHB	17. LANDMARKS CHB	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
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS NA	30. OTHER CULTURAL FEATURES 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 CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS CHB	39. FORMS CHB
40. REVIEWER Charles H. Bishop Charles H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT Nov. 1975 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 Charles H. Bishop Rev: Charles H. Bishop		AUG. 1974 OCT. 1976 SUPERVISOR Joseph W. Vonasek	
43. REMARKS See Form 76-36C - Item 8			

FIELD EDIT REPORT
Sheet T-12945
Congo Cay to Reef Bay
St. Thomas-St. John, U.S. Virgin Islands
March 1973

51. METHODS

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

A visual inspection and verification was made of all shoreline and alongshore features south of $18^{\circ}20'20''$. The area north of this latitude was not field edited, as the field edit was correlated with the hydrography project limits.

52. ADEQUACY OF COMPILATION

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

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

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

57. LANDMARKS AND AIDS TO NAVIGATION

Two aids to navigation are recommended for charting on this sheet. One is a light northwest of Steven Cay and was found to be in a position different than that compiled. This light was located by theodolite in the field. The second aid, a light located at the entrance to Cruz Bay, was verified by theodolite cut and is compiled correctly.

One landmark lies in the area of field edit that is recommended for charting. It is the St. John Government House, 1918, located at Cruz Bay.

58. MISCELLANEOUS

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

Respectfully Submitted,

James W. Davis

James W. Davis

Lt(jg). NOAA

Sub-unit Chief, Photo Party 62

Field Edit Report
Virgin Islands, 1975
~~Job CM-7304~~ PH-6504
Sheet T-12945

51. METHODS

Field edit was concerned with shoreline from Lind Point north and eastward.

52. ADEQUACY OF COMPILATION

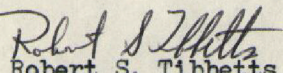
Adequate after application of field edit information. Intersection cuts were made to Steven's Cay Light but not computed in the field. List of directions are included with this report for verification of position.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.


Robert S. Tibbetts
Chief, Photo Party 62

[illegible]

Replaces C&GS Form 567.

LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

<input checked="" type="checkbox"/> TO BE CHARTED	REPORTING UNIT (If field party, Ship or Office)	STATE	LOCALITY	DATE
<input type="checkbox"/> TO BE REVISED				
<input type="checkbox"/> TO BE DELETED				
	Coastal Mapping Division, Norfolk	Virgin Islands	St. John Island	11/4/74

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM	METHOD AND DATA (See instructions)
423 WH 73	PH-6504	T-12945	Puerto Rican	
			POSITION	

POSITION

CHARTING NAME	DESCRIPTION (Record reason for detection of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE	
		°	'	°	'		
							D. M. Meters
GOV'T HOUSE	(St. John Government House, 1918)	18	20	03.56	64	47	Photo 71 L 884
				109.4			44.79 1315.2

[illegible][illegible]

Note: No height data given by field editor

REVIEW REPORT T-12945

SHORELINE

November 15, 1976

61. GENERAL STATEMENT:

See Summary which is page ~~8~~⁷ 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:

West of Long. $64^{\circ} 46' 30''$ a comparison was made with a copy of Survey T-3779, 1:10,000 scale, dated 1918. The area east of Long $64^{\circ} 46' 30''$ was compared with a 1:20,000 scale reduction of 1:10,000 scale Survey T-3772, dated 1919. Significant differences are shown in blue on the comparison print.

In the area compared, T-12945 supersedes T-3772 and T-3779 for nautical chart construction purposes. T-3772 and T-3779 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. Quadrangle EASTERN ST. THOMAS, V.I., 1:24,000 scale, dated 1954 and WESTERN ST. JOHN, V.I., 1:24,000 scale, dated 1958. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The area north of Lind Point and west of Hawk-nest Point was compared with a verified sounding overlay of Survey H-9507 (WH-10-1-75). The area south and

eastward from Lind Point was compared with the verified smooth sheet for Survey H-9365 (WH-10-2-73). No significant differences with either of these surveys were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 25647, 1:15,000 scale, 5th edition, dated Sept. 7, 1974. Significant differences are shown in red on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets the requirements for Bureau ^{Standards} Surveys and the National Standards of Map Accuracy.

Submitted: .

Charles H. Bishop

Charles H. Bishop

Cartographer

November 15, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek

Chief, Photogrammetric Branch, AMC

Approved:

W. K. [Signature]

Chief, Photogrammetric Branch

[Signature]

Chief, Coastal Mapping Div.

64° 48'

22° 30"

27

71L 968

Carval Rock

CARVAL 1918

Congo Cay

*Rks. not visible on
photos at these positions*

18° 22'

Lovango Cay

LOVANGO 1918

Blunder Rocks

Pier
[0] * 0° Murder Rock

COMPARISON PRINT

Blue = T-3779

Red = Chart 25647

Brown = USGS

Windward passage

[0] * (1/8)
[0] * Rata Cay
[5]

Durloe

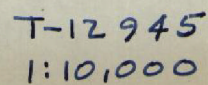
[0] *
[0] * ISLE 1918
[2] *
[0] *
[0]

Henley
Cay

Durloe Turt
B

T-12945
1:10,000

28



45° 30"

64° 45'

22° 30"

29

Not visible
on photos

WHISTLE 1918

Whistling
Cay

RUINS

Fungi Passage

Mary
Point

RKawash
MLW

71 L 966

22'

COMPARISON PRINT

Brown = USGS

Red = Chart 25647

Y = 195,000 Ft

America Point

CINNAMON 1918

Cinnamon Cay

Cinnamon
Bay

Peter
Bay

AMERICA 1918

21° 30"

T-12945

1:10,000

64° 47'30"

30

CRUZ BAY LIGHT

Cruz Bay

ST. JOHN GOV-
ERNMENT HOUSE,
GABLE 1918

Ledge awash
at MLW

Seaplane
Ramp

Floating
Pier

Cruz Bay

Ledge same on
Chart and T-3779

18° 20'

COMPARISON PRINT

Blue = T-3779

Red = Chart 25647

Brown = USGS

Frank
Bay

Pond

Turner Bay

avian Pt

RK

Contant Pt

Cruz Bay

Great

Blasbalg Pt

BAKE 1918

Maria

Bluff

Chocolate Hole

(2)°

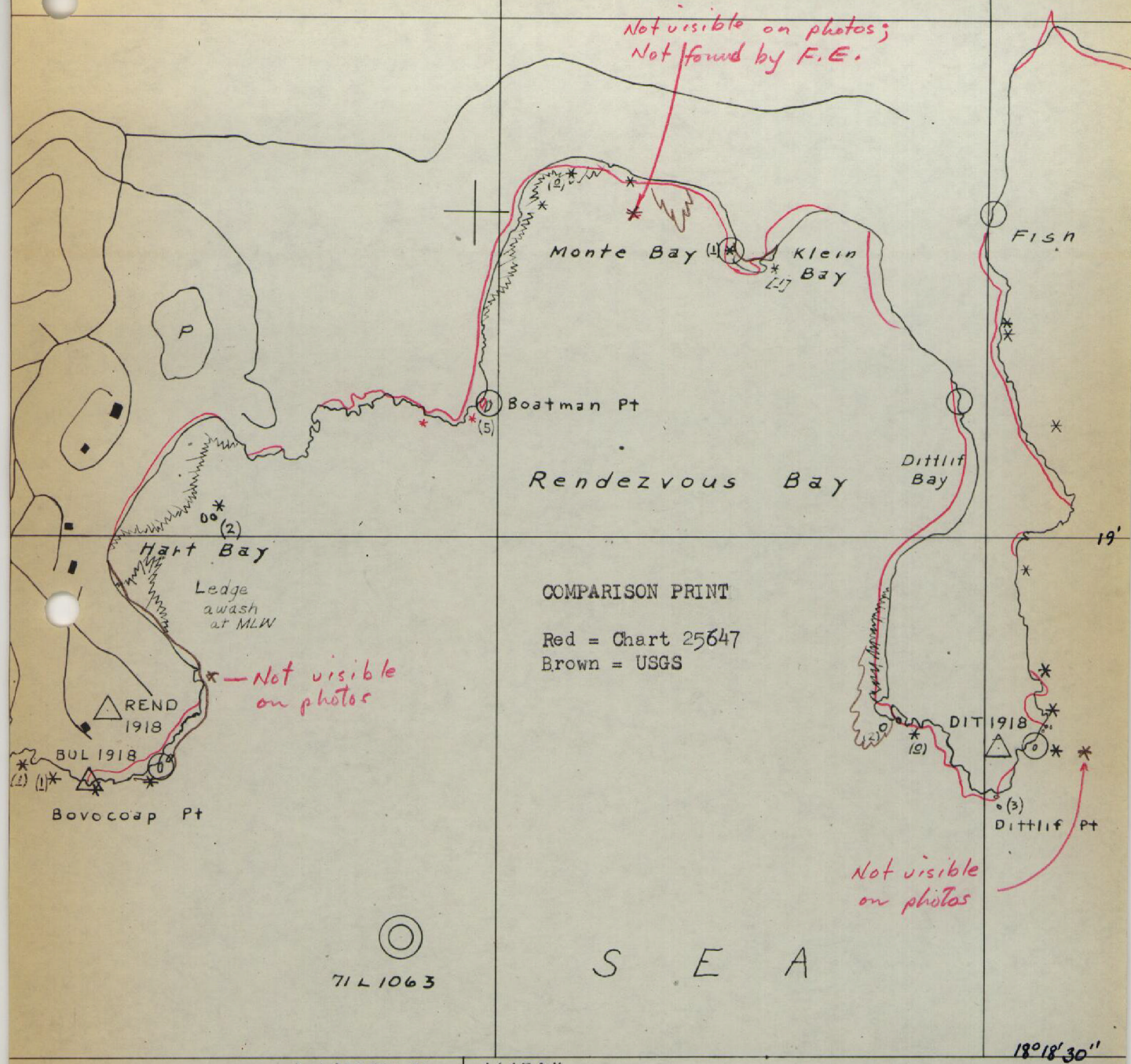
Devers Bay

T-12945
1:10,000

46'30"

64°46' 31

Not visible on photos;
Not found by F.E.



COMPARISON PRINT

Red = Chart 25647
Brown = USGS

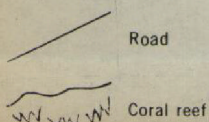
S E A

71 L 1063

X=1,075,000 Ft. 46'30"

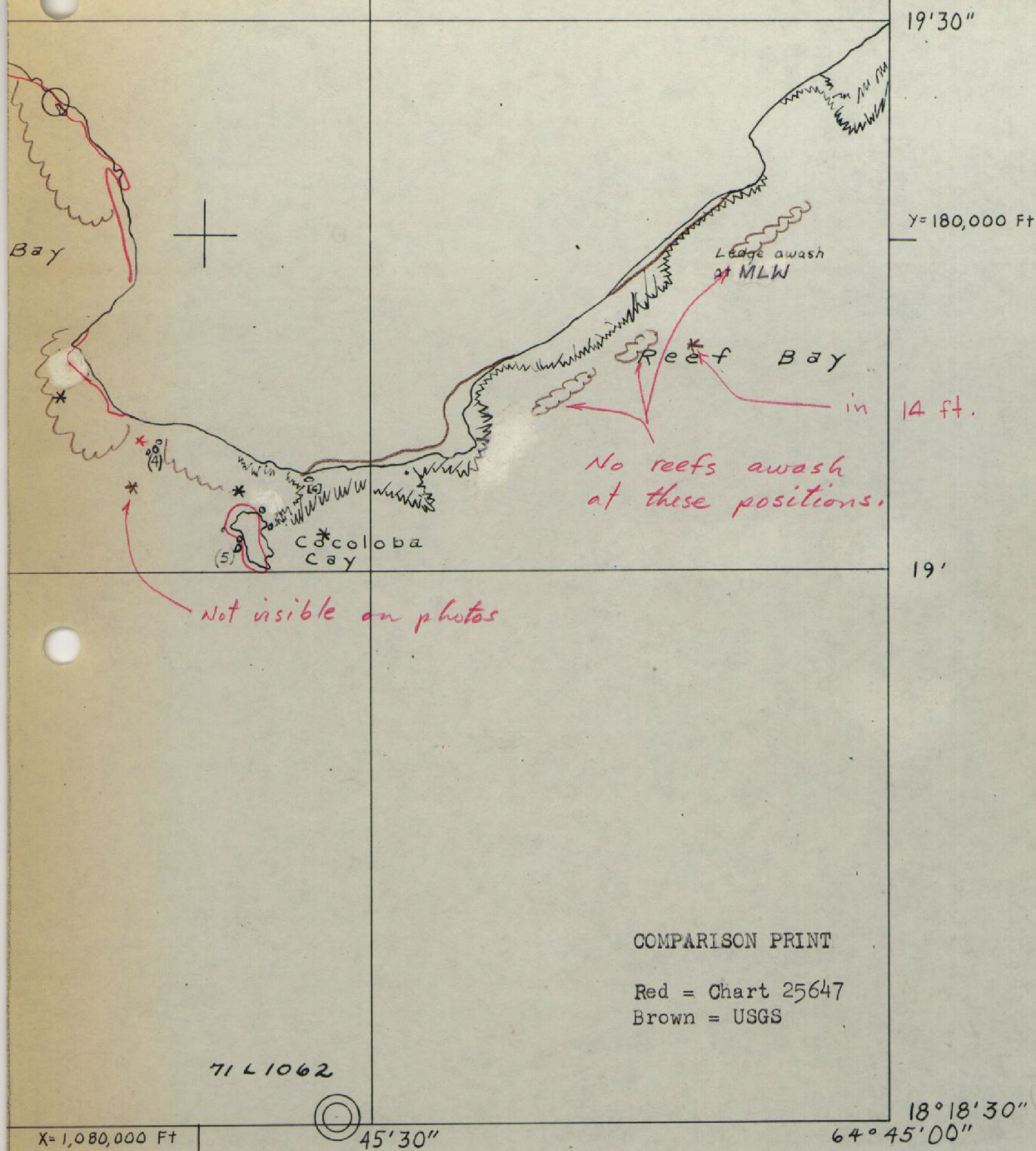
64°46'

LEGEND



△	Recoverable horizontal control station of third-order or higher
○	Recoverable horizontal control station of less than third-order
The heavy shoreline defines the approximate mean high water	
Compiled by photogrammetric methods, from aerial photogra	
Date of Photography	Nov. 1971 Nov. 1972
Date of Field Inspection	None
Date of Field Edit	March 1973 Feb. 1975
Date of Final Compilation	Aug. 1975
Date of Final Review	Nov. 1976

T-12945
1:10,000



COMPARISON PRINT

Red = Chart 25647
Brown = USGS

NATIONAL OCEAN SURVEY
SHORELINE MANUSCRIPT
T-12945
VIRGIN ISLANDS
ST. JOHN
CONGO CAY TO REEF BAY
SCALE 1:10,000
(1 inch = 833.33 ft.)
CONTROL DATA

2945

T-12945
National Archives Data

32 Discrepancy Prints (Field Edit Sheets)

1 Form 527 (Description of Recoverable Topo Station)

1 Form 157 (Position of Intersection Station)

2 Form 470 (Abstract of Directions)

2 Form 24A (List of Directions)

3 Form 76-72 (List of Directions)

Photography: 71-L(C) 884, 966, 1062, 1063, 1064, and 1082