

ORIGINAL

T-12942

T-12942

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-12942

Classification No. Final Edition No. 1

Field Edited Map

LOCALITY

State Virgin Islands

General Locality St. Thomas

Locality Santa Maria Bay to Magens Bay

1972 TO 1976

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. (1)

☐ RESURVEY

MAP CLASS Final (F.E.)

☐ REVISED

JOB PH- 6504

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division (Rockville)
Coastal Mapping Division (Norfolk)

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- _____

☐ ORIGINAL

MAP CLASS _____

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

OFFICER-IN-CHARGE

Jack Guth (Rockville)
Jeffrey G. Carlen (Norfolk)

I. INSTRUCTIONS DATED

1. OFFICE

Dec. 14, 1971
Jan. 25, 1972Aerotriangulation
Compilation

2. FIELD

Oct. 18, 1971

Nov. 15, 1972 - Supplement I

II. DATUMS

1. HORIZONTAL:

☐ 1927 NORTH AMERICAN

OTHER (Specify)

Puerto Rico

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 Rico
~~Coordinate System~~ZONE Virgin Islands
Extension

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	D. Norman	Dec. 1971
	LANDMARKS AND AIDS BY	NA	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	D. Phillips	Jan. 1972
	CHECKED BY	D. Phillips	Jan. 1972
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	J. Richter	Jan. 1972
	CHECKED BY	P. Dempsey	Jan. 1972
INSTRUMENT: B-8	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	M. Webber	Jan. 1972
	CHECKED BY	J. Richter	Jan. 1972
	CONTOURS BY	NA	
METHOD: Smooth ink drafting	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	M. Webber	Jan. 1972
SCALE: 1:10,000	CHECKED BY	J. Richter	Jan. 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J.P. Battley	Jan. 1972
6. APPLICATION OF FIELD EDIT DATA	BY	R.R. White	Aug. 1975
	CHECKED BY	C.H. Bishop	Nov. 1975
7. COMPILATION SECTION REVIEW	BY	C.H. Bishop	Nov. 1975
8. FINAL REVIEW	BY	C.H. Bishop	Oct. 1976
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	C.H. Bishop	Jan. 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	E.L. Rolle	March 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R.T. CATDR	MAR 1977

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12942
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)

Wild RC-8 "L" & RC-10 "Z" & ~~RC-8 "L"~~TYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

☒ PREDICTED TIDES☐ REFERENCE STATION RECORDS☒ TIDE CONTROLLED PHOTOGRAPHY

(C) COLOR

(P) PANCHROMATIC

(I) INFRARED

ZONE

Atlantic

☒ STANDARD

MERIDIAN

60th

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71L(C) 854 - 857	15 NOV 71	09:10	1:30,000	1.4 ft. above MLW
71L(C) 835 - 837	15 NOV 71	09:05	1:30,000	1.4 ft. above MLW
* 74Z(C) 7137 - 7139	12 FEB 74	09:17	1:12,000	0.44 ft. above MLW
* 74Z(C) 7143 & 7144	12 FEB 74	09:22	1:12,000	0.47 ft. above MLW
* 74Z(C) 7154 - 7159	12 FEB 74	09:30	1:12,000	0.48 ft. above MLW
71M(P) 971 & 972 (Bridging Only)	27 NOV 71	10:42	1:60,000	

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

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of above listed photos.

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

~~Not compiled~~

Office interpretation of the 1974 photos listed above. Only a small area was compiled at Flat Cays and one at Saba Island.

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-12938 ✓	T-12943 ✓	No Contemporary Survey ✓	T-12941 ✓

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12942

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J.K. Wilson	1972
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
	IDENTIFIED BY	NA
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

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)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 Discrepancy Print

NOAA FORM 76-36C
(3-72)

NOAA FORM 76-36C
(3-72)

T-12942

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	Aug. 1975
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	Lawrence H. Davis NA NA
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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	Robin D. Wells
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

3. PHOTO NUMBERS (Clarification of details)

71 L(C) 1211

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

1 Discrepancy Print (Field Edit Ozalid)

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(3-72)

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(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12942

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Ship WHITING	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
	IDENTIFIED BY	NA
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

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)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None (3 reported verbally)

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 X Discrepancy Print

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

T-12942

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 Manuscript Superseded	Jan. 1972	Jan. 1972
North Shore details adjusted from Feb. 1974 photography	Jan. 1975	Class III Manuscript Superseded	Jan. 1975	Jan. 1975
1975 Field edit applied. Compilation complete	Aug. 1975	Class I Manuscript Superseded	Aug. 1975	
Final Review	Oct. 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		21 Dec. 1976	Form 76-40 for Landmarks (3)
/		21 Dec. 1976	" " " " to be deleted (1)

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: _____

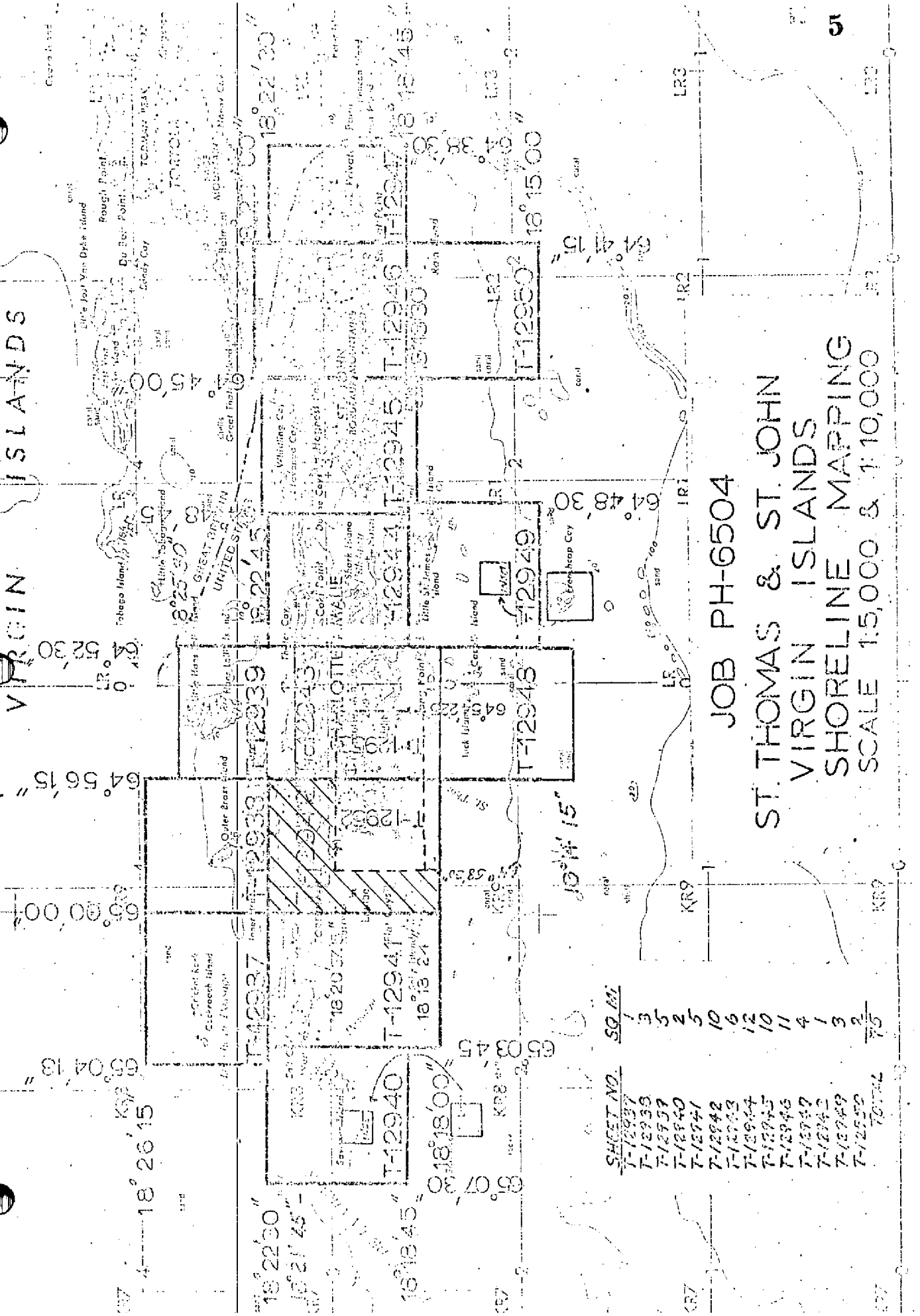
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

VIRGIN ISLANDS

JOB PH-6504
 ST. THOMAS & ST. JOHN
 VIRGIN ISLANDS
 SHORELINE MAPPING
 SCALE 1:5,000 & 1:10,000

SHEET NO.	SQ. 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



NAVY CHARTS DIVISION - LANDMARKS FOR CHARTS									
REPORTING UNIT INLAND PARTY, SHIP OR OFFICE		STATE		LOCALITY		DATE		COMPILED BY	
Coastal Mapping Div. (Norfolk)		Virgin Islands		St. Thomas		10/22/76		FINAL REVIEWER QUALITY CONTROL & REVIEW GRP. COAST PILOT BRANCH	
The following objects HAVE ☒ been inspected from seaward to determine their value as landmarks.		SURVEY NUMBER		DATUM		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED	
DPR PROJECT NO.		JOB NUMBER		POSITION		OFFICE		FIELD	
423		PH-6504		Puerto Rico		71 L(C) 856 15 NOV 1971		25641 25649	
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE		FIELD	
		° /	D.M. Meters	° /	D.P. Meters				
MICROWAVE TOWER	On Hawk Hill VERIFIED	18 21	16.3 502	64 58	33.9 995	71 L(C) 856 15 NOV 1971		25641 25649	
TOWER	On Crown Mt. CAN'T SEE	18 21	22.9 705	64 58	42.8 1257	71 L(C) 856 15 NOV 1971		25641	
TV TOWER	TV Tower on Signal Hill VERIFIED	18 21	22.9 704	64 56	42.8 1256	71 L(C) 855 15 NOV 1971		25641 25649	
NOTE: No Form 76-40 was submitted by field editor (Ship WHITING personnel). These objects were verified verbally when the ship returned to AMC in August 1976.									
A									

13

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 - CFFICE - Job Disposition, CM-7304, Photogrammetric Bathymetry, St. Thomas and St. John Islands, Virgin Islands, dated August 3, 1976.

Field work consisted of the recovery and premarking of horizontal control required for bridging. This was done in October and November, 1971. Additional control was established on Pelican Cay (T-12939) in December 1972.

Photography flown in 1971 was used for bridging and shoreline compilation of the 1:10,000 maps.

Bridging was done by analytic aerotriangulation in Rockville in December 1971. Control was adequate for all sheets except T-12939. After additional control was established on Pelican Cay in December, 1972, a 3-photo strip was bridged to adequately control the Hans Lollik Island section of this map.

Compilation was done on the Wild B-8 Plotter in Rockville from January 1972 to August 1974. T-12937 and T-12940 were compiled graphically. When photobathymetry was compiled, the model scale was more favorable for viewing the shoreline. Several minor corrections were made to the mean high water line and some rocks were added. Rock elevations shown in brackets are from photobathymetry.

Field edit was done in conjunction with hydrography, mostly by a photogrammetric unit, from March 1973 to August, 1975. T-12946 and T-12947 were edited by personnel of the Ship WHITING in April 1976. Four fixed aids to navigation and eleven day-beacons (private aids) were located by field methods.

Final Review was done at the Atlantic Marine Center from September 1976 to December 1976.

The original manuscripts were stabilene sheets and varied in size. They were forwarded to the Rockville Office for preparation of Registration Copies.

PHOTOGRAMMETRIC PLOT REPORT
Virgin Islands
Job PH-6504
August 1972

21. Area Covered

This report pertains to thirteen sheets in the Virgin Islands. The sheets are T-12937, T-12938 and T-12940 thru T-12950. The area covered consists of St. Thomas Island, St. John Island and some small islands surrounding the two islands previously mentioned.

22. Method

Ten strips of photography were bridged by analytic aerotriangulation methods and adjusted to the Puerto Rico state plane coordinate system. Strip 1 (71-M-969 thru 974) and Strip 6 (71-M-953 thru 957) were 1:60,000 scale panchromatic photography. Points were established on Strip 1 to control Strips 2 thru 4 and points were also established on Strip 6 to control Strips 7 thru 10. Points were established for determining ratios. Strip 5 was a two-model bridge adjusted to ground by two control points. Strip 10 was also a two-model bridge adjusted to ground by one control point and two points established from Strip 6. Points were plotted by the Coradi plotter. Sheet T-12937 was compiled graphically in the compilation area. Sheet T-12939 was not completed due to lack of photographic control. Sheet T-12949 is to be completed in the compilation area.

23. Adequacy of Control

The control for sheet T-12939 was not adequate for compilation; however, the control for the remaining sheets was adequate.

24. Supplemental Data

Vertical control was taken from USGS topographic quadrangles.

25. Photography

The photography was adequate.

Approved and Forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Acting Chief
Aerotriangulation Section

Respectfully submitted:

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

Fit to Control
(x, y) feet

▲ ■ held in adjustment

STRIP #1

▲ 1 No. 97 (cadastral survey) - sub sta (-0.8, +0.1)
 ▲ 2 FORT CHRISTIAN FLAGSTAFF, 1900 sub sta (+1.9, -0.2)
 ▲ 3 BLUFF, 1918 (-2.5, -0.6)
 ▲ 4 Panel on Savana Island (+1.4, -0.7)

STRIP #2

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

STRIP #3

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

STRIP #4

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

STRIP #5

▲ 6 BUCK ECC RM, TARGET "A" ON BUCK ISLAND (0.0, 0.0)
 BUCK, 1918 (Lighthouse) (0.0, +0.2)
 ▲ 7 BUCK ECC RM, TARGET "B" ON CAPELLA ISLAND (0.0, 0.0)

STRIP #6

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

STRIP #7

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

STRIP #8

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

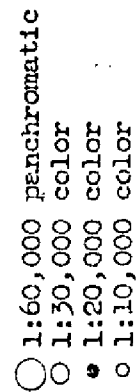
STRIP #9

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

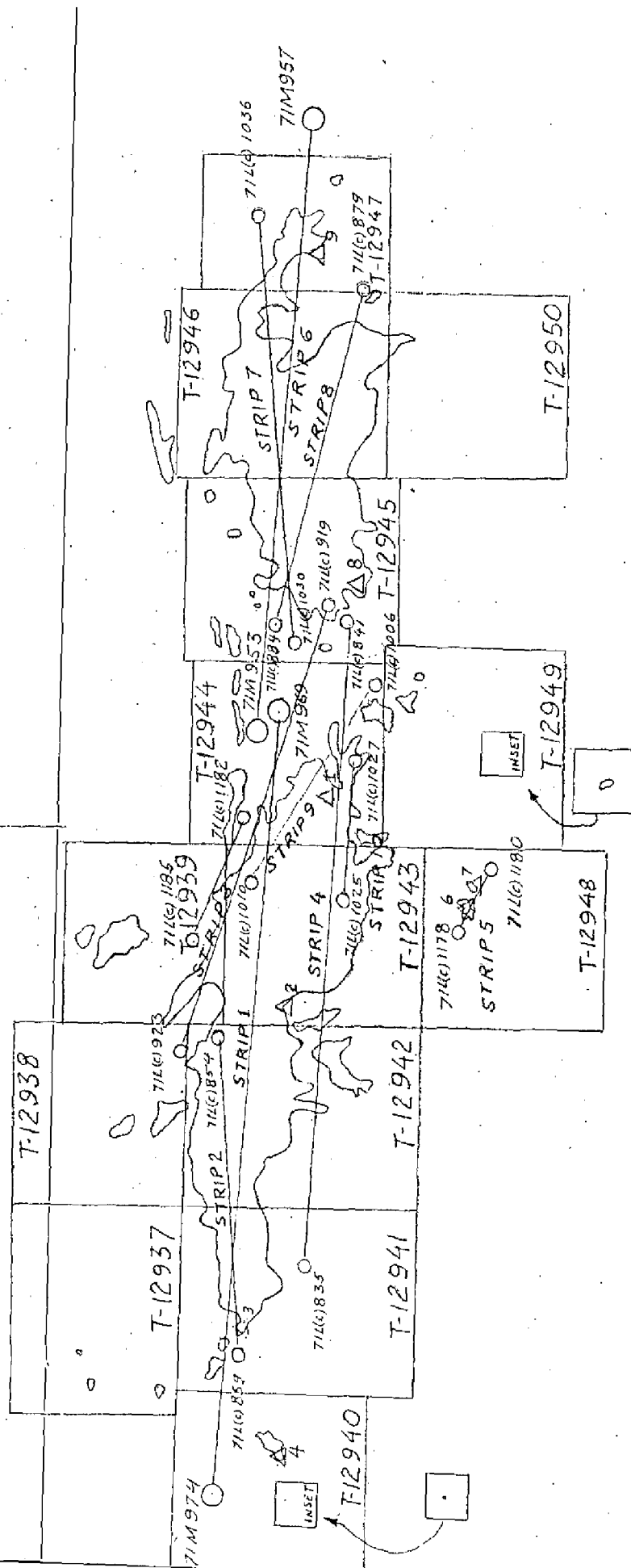
STRIP #10

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

January 1972

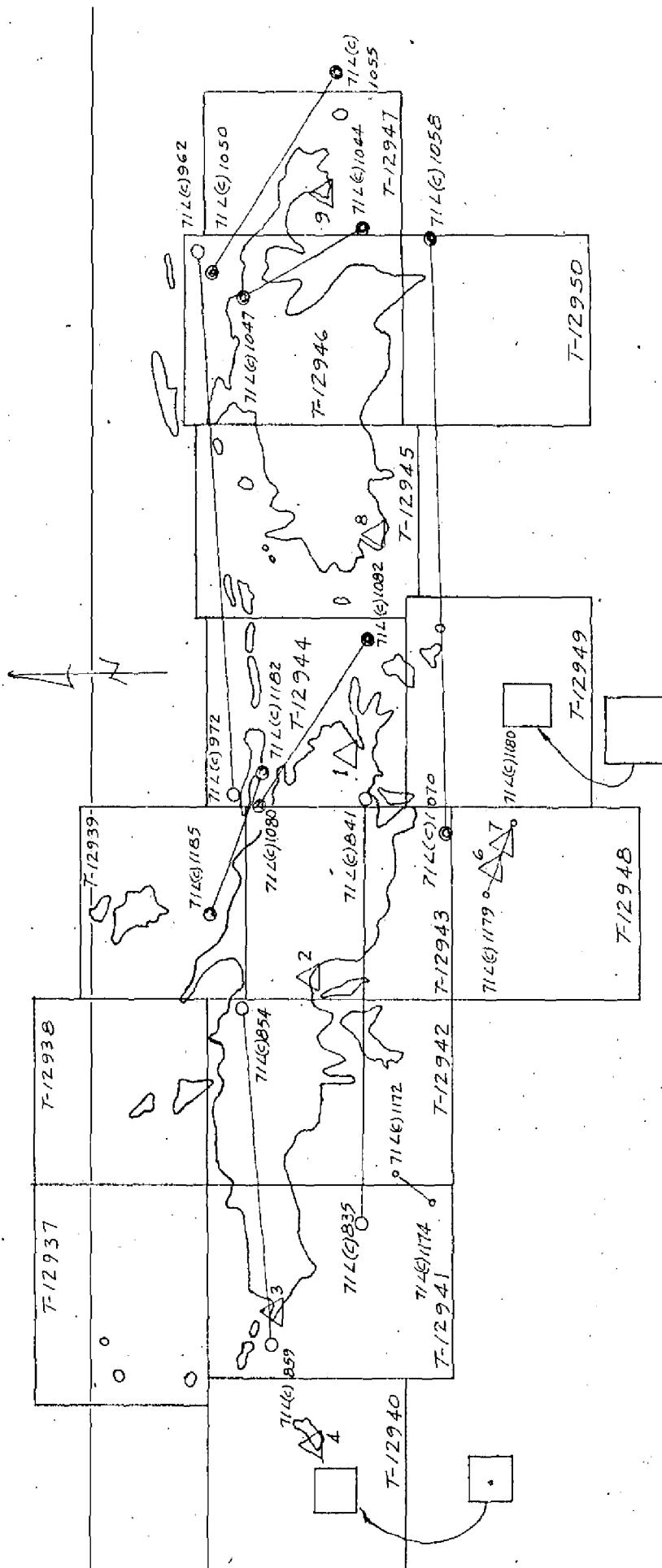


AEROTRIANGULATION SKETCH
 VIRGIN ISLANDS
 JOB, PH-6534



- 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

COMPILATION REPORT

T-12942

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 pass points were dropped along the shoreline to position signals.

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 color photography set on the B-8 stereoplotter.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

Landmarks were located from models set on the B-8 stereoplotter and are to be verified by field edit. No aids to navigation were found.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

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

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report.

41. - 45.

Not used

46. COMPARISON WITH EXISTING MAPS

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

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with nautical chart 905, scale 1:100,000, 9th edition May 1, 1971 and chart 933, scale 1:10,000, 10th edition Mar. 17, 1969.

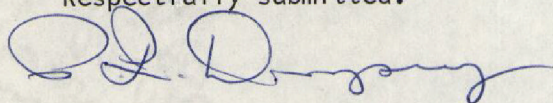
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

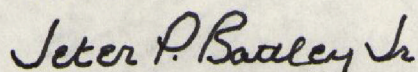
None

Respectfully submitted:



P.J. Dempsey
Carto. (Photo)

Approved:

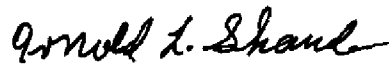


Jeter P. Battley, Jr.
Chief, Coastal Mapping Section, Rockville

ADDENDUM TO COMPILATION REPORT

T-12942

When Photobathymetry (Job CM-7304) was compiled in December 1974 and January 1975, small corrections to the mean high water line were made where necessary. The 1:12,000 scale color photography and the exacting level solution for photobathymetry made a better delineation of the mean high water line possible.



Arnold L. Shands
Cartographer

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12942

Black Point

Brewers Bay

Caret Bay

Caret Point

Dorothea Bay

Flat Cays

Hendrik Bay

Hull Bay

Kastel Point

Konink Point

Magens Bay

Mail Bay

Neltjeberg Bay

Perserverance Bay

Range Cay

Reseau Bay

Ruy Point

Saba Island

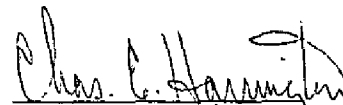
St. Thomas

Santa Maria Bay

Southwest Road

Vluck Point

Approved

Chas. E. Harrington
Staff Geographer-C51x2

NOAA FORM 75-74
(7-75)

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

TP - 12942

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) N/A		7. PHOTO HYDRO STATIONS N/A
8. BENCH MARKS N/A	9. PLOTTING OF SEXTANT FIXES N/A	10. PHOTOGRAMMETRIC PLOT REPORT CHB	11. DETAIL POINTS CHB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE N/A	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES N/A
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 CHB		21. NATURAL GROUND COVER N/A	22. PLANETABLE CONTOURS N/A
23. STEREOSCOPIC INSTRUMENT CONTOURS N/A	24. CONTOURS IN GENERAL N/A	25. SPOT ELEVATIONS N/A	26. OTHER PHYSICAL FEATURES CHB
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS N/A	29. RAILROADS N/A	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES N/A		32. PUBLIC LAND LINES N/A	
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 N/A	39. FORMS CHB
40. REVIEWER <i>C.H. Bishop</i> C. H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT <i>Joseph W. Vonasek</i> Joseph W. Vonasek	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER R.R. White <i>P.R. White</i>		SUPERVISOR <i>Joseph W. Vonasek</i> Joseph W. Vonasek	
43. REMARKS			

Field Edit Report
Virgin Islands, 1975
Job ~~GM-7304~~ PH-6504
Sheet T-12942

51. METHODS

Field edit was accomplished from water. Minor changes are as indicated on ozalid.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.

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

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION				NON-CHARTING USE OR LANDMARKS FOR CHARTS				ORIGINATING ACTIVITY			
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE		☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☐ COMPILATION ACTIVITY ☒ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)							
TO BE CHARTED		TO BE REVISED		TO BE DELETED		The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.		METHOD AND DATE OF LOCATION (See instructions on reverse side)				CHARTS AFFECTED			
OPR PROJECT NO.		JOB NUMBER		SURVEY NUMBER		DATUM		POSITION							
423		PH-6504		T-12942		Puerto Rico									
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		LATITUDE ° / ' / D.M. Meters		LONGITUDE ° / ' / D.P. Meters		OFFICE				FIELD			
MICROWAVE TOWER	On Hawk Hill	18	21	16.3	502	64	58	33.9	995	71 L(C) 856	15 NOV 1971	25641	25649		
TOWER	On Crown Mt.	18	21	22.9	705	64	58	42.8	1257	71 L(C) 856	15 NOV 1971	25641			
TV TOWER	TV Tower on Signal Hill	18	21	22.9	704	64	56	42.8	1256	71 L(C) 855	15 NOV 1971	25641	25649		
NOTE:															
No Form 76-40 was submitted by field editor (Ship WHITING personnel). These objects were verified verbally when the ship returned to AMC in August 1976.															

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Charles H. Bishop
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)	
OFFICE 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	FIELD (Cont'd) 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.

Replaces C&GS Form 567.

NON-TECHNICAL LANDMARKS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE
BUREAU OF ECONOMIC ANALYSIS
OFFICE OF AIR AND SPACE ADMINISTRATION

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

REPORTING UNIT

Field Party, Ship or Office)

Coastal Mapping Div.

(Norfolk)

REPORTING UNIT

27

LOCALITY

Thomas

DATE _____

10/26/76

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

OPR PROJECT NO.:

423

JOB NUMBER

PH-6504

SURVEY NUMBER

T-12942

DATUM

Puerto Rico

POSITION

LONGITUDE

11

D.P.M.

57-7

64 57-7

**House no longer useful
as a landmark**

NOTE: No Form 76-40 submitted by field party; information received verbally from Ships Officers.

OH

Description of landmark

Record reason for deletion of landmark or aid to navigation.

METHOD AND DATE OF LOCATION

(See instructions on reverse side)

FIELD

OFFICE

CHARTS

(opposite side)

25641

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	Ship WHITING
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Charles H. Bishop
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 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	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.

REVIEW REPORT T-12942

SHORELINE

October 26, 1976

61. GENERAL STATEMENT:

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

The south shore of St. Thomas east of Long. $64^{\circ} 58' 30''$ was mapped at 1:5,000 scale as T-12952.

A comparison print showing differences noted Par. 62, 63, 64 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 copies of 1:10,000 Surveys T-3770 and T-3771, both dated 1918. Significant differences are shown on the comparison print in blue.

In the area compared, T-12942 supersedes T-3770 and T-3771 for nautical chart construction purposes. T-3770 and T-3771 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. CENTRAL ST. THOMAS, V.I., 1:24,000 scale, dated 1955. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The north shore of St. Thomas was compared with the unverified sounding overlay for Survey H-9601 (WH-10-2-76). No significant differences were noted.

The south shore, west of Long. $64^{\circ} 58' 30''$, was compared with a copy of the verified smooth sheet for Survey H-9272 (WH-10-2-72).

The only significant difference noted is a rock awash on the east side of Flat Cay. This rock is not visible on the photographs and is not mapped on T-12942.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 25641, 1:100,000 scale, 14th edition, dated 26th April 1976. A wreck approximately 300 meters east of Flat Cay is not visible on the photographs. No other significant difference was 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 National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 26, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

D. J. H. [Signature]

Chief, Photogrammetric Branch

[Signature]

Chief, Coastal Mapping Division

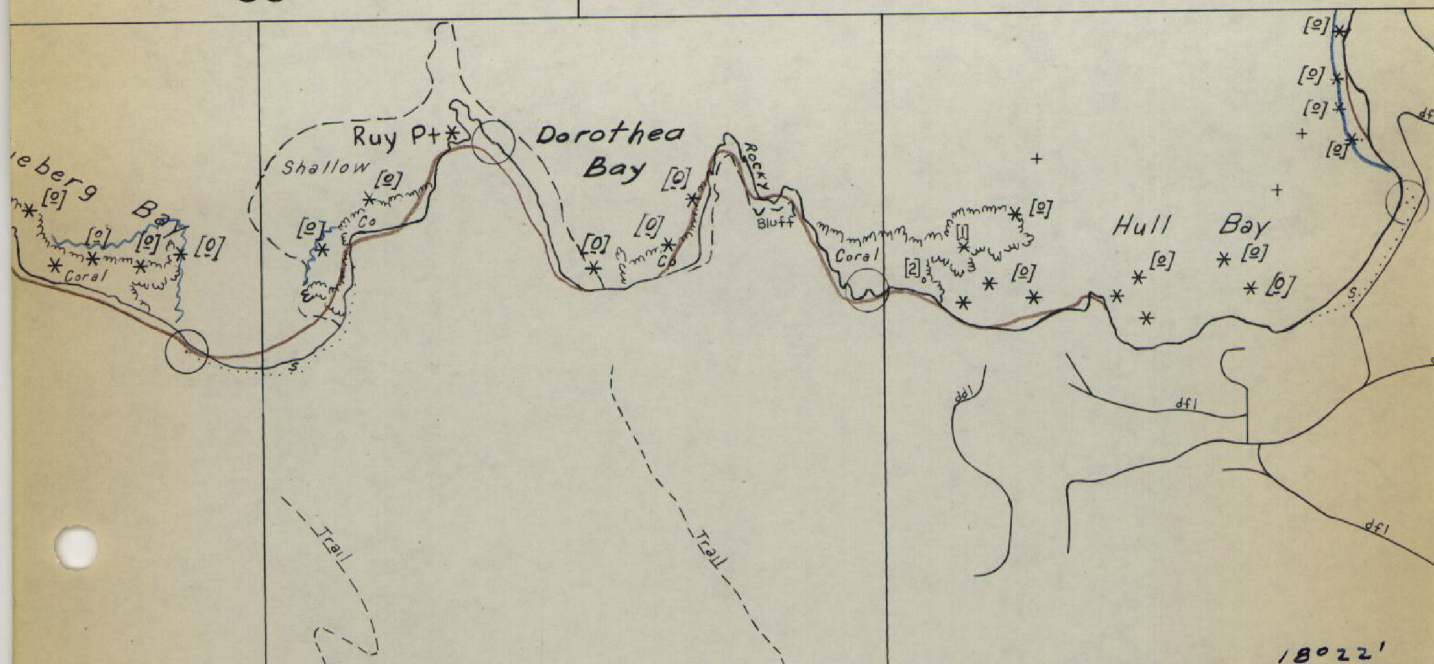
1:10,000

25. ~~24~~

58'

X=1,010,000 Ft.

64°57'30"



18°22'

COMPARISON PRINT

Blue = T-3771
Brown = USGS



711855

18°27'30"

T-12942
1:10,000

TOWER ○

Rb.
~~25~~

BAY

18°21'

BLACK 1918
Black Pt

Brewers Bay

Range Cay (2)*
(1)*

Fill area

COMPARISON PRINT

Blue = T-3770
Brown = USGS

71L836

18°20'

T-12942
1:10,000

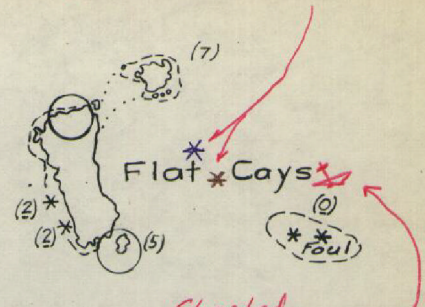
64°59'

58°30''

EST

27. ~~28~~

No rks awash visible
on photos at these positions



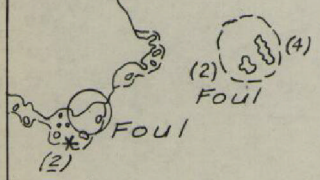
Charted.
Wreck not visible
on photographs

COMPARISON PRINT

Purple = H-9272
Red = Chart 25641

MHWL
Foul
Y = 175,000 Ft.

18°30' Saba Island



T-12942
1:10,000

18°18'00"
65°00'00"

X = 1,000,000 Ft. 59°30'

4

T-12942
National Archives Data

3 Discrepancy Prints (Field Edit Sheets)

Photography: 71-L(C) 1211