

ORIGINAL

T- 12949

T-12949

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-12949

Classification No. Final Edition No. 1

FIELD EDITED MAP

LOCALITY

State Virgin Islands

General Locality ... St. Thomas

Locality Little St. James Island

19 71 TO 1973

REGISTRY IN ARCHIVES

DATE

TYPE OF SURVEY

SURVEY TP-12949

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)

OFFICER-IN-CHARGE

Wesley V. Hull (Rockville)
Jeffrey G. Carlen (Norfolk)

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- _____

☐ ORIGINAL

MAP CLASS _____

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

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

2. FIELD

October 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 RicoZONE Virgin
Islands Extension

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D. Norman	Sep, 1972
METHOD: <u>Analytic</u>	LANDMARKS AND AIDS BY	NA	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	D. Phillips	Sep, 1972
METHOD: <u>Coradomat</u>	CHECKED BY	D. Phillips	Sep, 1972
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	R. Rich	Oct, 1972
COMPILATION	CHECKED BY	P. Dempsey	Oct, 1972
INSTRUMENT: B-8	CONTOURS BY	NA	
SCALE: 1:10,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	P. Dempsey	Nov, 1972
	CHECKED BY	J. Richter	Nov, 1972
METHOD: <u>Inked-graphic</u>	CONTOURS BY	NA	
<u>worksheets</u>	CHECKED BY	NA	
SCALE: 1:10,000	HYDRO SUPPORT DATA BY	P. Dempsey	Nov, 1972
	CHECKED BY	J. Richter	Nov, 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. P. Battley	Nov, 1972
6. APPLICATION OF FIELD EDIT DATA	BY	C. Lewis	May, 1973
	CHECKED BY	J. P. Battley	May, 1973
7. COMPILATION SECTION REVIEW	BY	C. H. Bishop	Nov, 1975
8. FINAL REVIEW	BY	C. H. Bishop	Dec, 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. J. CATDR	MAR 1977

NOAA FORM 76-36B
(3-72)

T-12949

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" and "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) <u>COLOR</u> X (P) PANCHROMATIC (I) INFRARED		ZONE Atlantic MERIDIAN 60th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71L 1151 thru 1153	Nov 20, 71	11:50	1:5,000	0.9 ft. above MLW	
71L 1065 thru 1069	Nov 20, 71	10:05	1:20,000	0.8 ft. above MLW	
* 72E(C) 7569 thru 7571	Nov 25, 72	8:48	1:12,000	0.8 ft. above MLW	
* 72E(C) 7438 thru 7441	Nov 23, 72	15:18	1:12,000	1.1 ft. above MLW	
*Tide controlled, Bovoni Bay, St. Thomas					

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

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of color photographs listed above.

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

Not 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 T-12944	EAST No contemporary Survey	SOUTH No contemporary survey	WEST T-12948 T-12943
REMARKS			

T-12949

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. K. Wilson	Oct. 1971
2. HORIZONTAL CONTROL	RECOVERED BY R. S. Tibbetts	Oct. 1971
	ESTABLISHED BY R. S. Tibbetts	Oct. 1971
	PRE-MARKED OR IDENTIFIED BY R. S. Tibbetts	Oct. 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 None	
	LOCATED (Field Methods) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY NA	
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) None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTARY MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1 CSI Card (Form 152) ✓			
1 Premark report			

HISTORY OF FIELD OPERATIONS T-12949

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	Apr. 1973
2. HORIZONTAL CONTROL	RECOVERED BY James W. Davis ESTABLISHED BY James W. Davis PRE-MARKED OR IDENTIFIED BY N.A.	Apr. 1973 Apr. 1973
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None. LOCATED (Field Methods) BY N.A. 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	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY James W. Davis	Apr. 1973
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

N.A.

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

71L1065, 71L1066, 71L1067, and 72E7562

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
N.A.			

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

- 1 Field Edit Report
- 2 Discrepancy Prints

T-12949

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and alongshore features	Nov, 1972	Class III Superseded	Nov. 1972	Nov, 1972
Field edit applied	May, 1973	Superseded Class I Manuscript	May 1973	
Final Review	Dec, 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. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

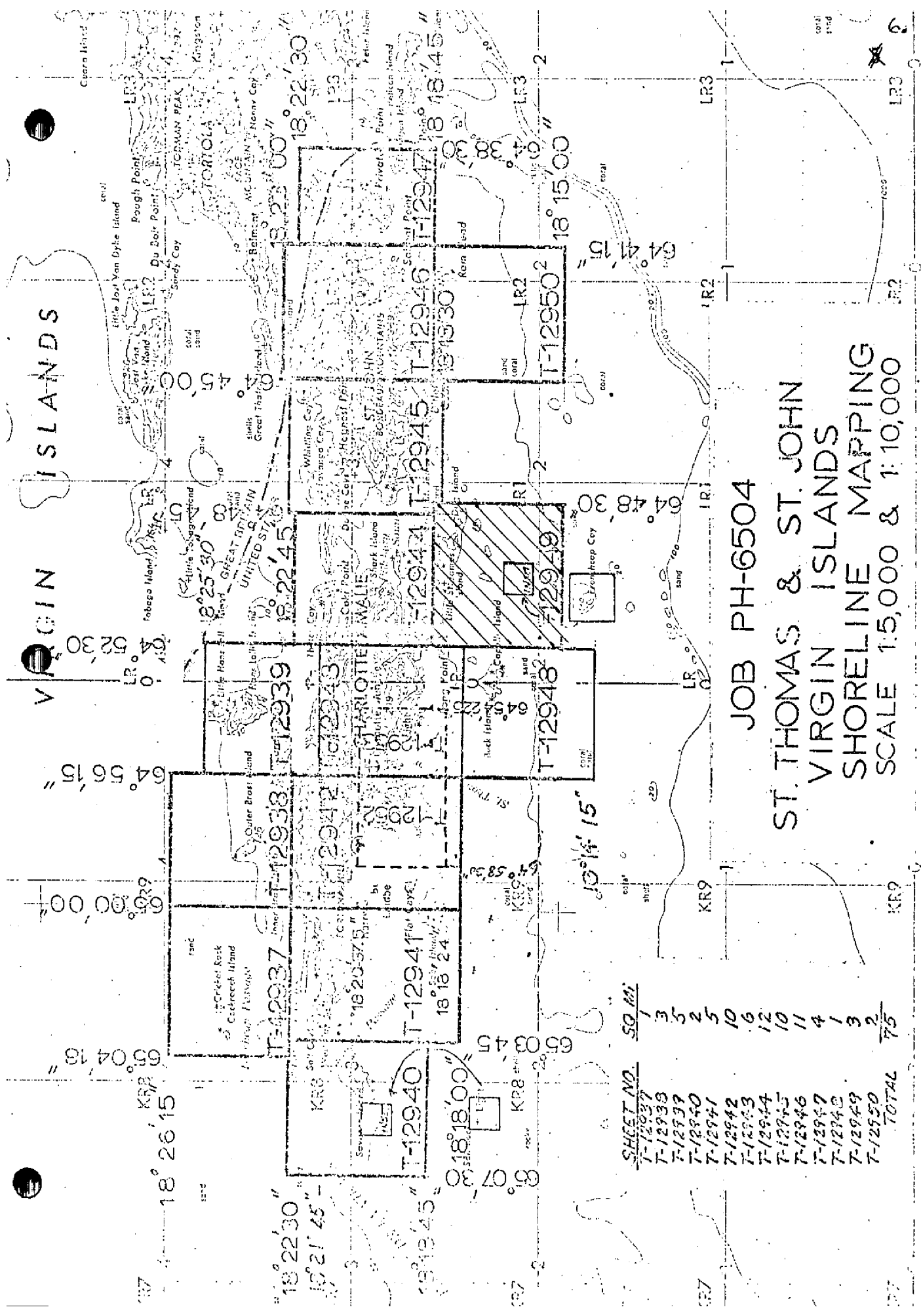
III. FEDERAL RECORDS CENTER DATA

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 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	



JOB PH-6504
 ST. THOMAS & ST. JOHN
 VIRGIN ISLANDS
 SHORELINE MAPPING
 SCALE 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 FH-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

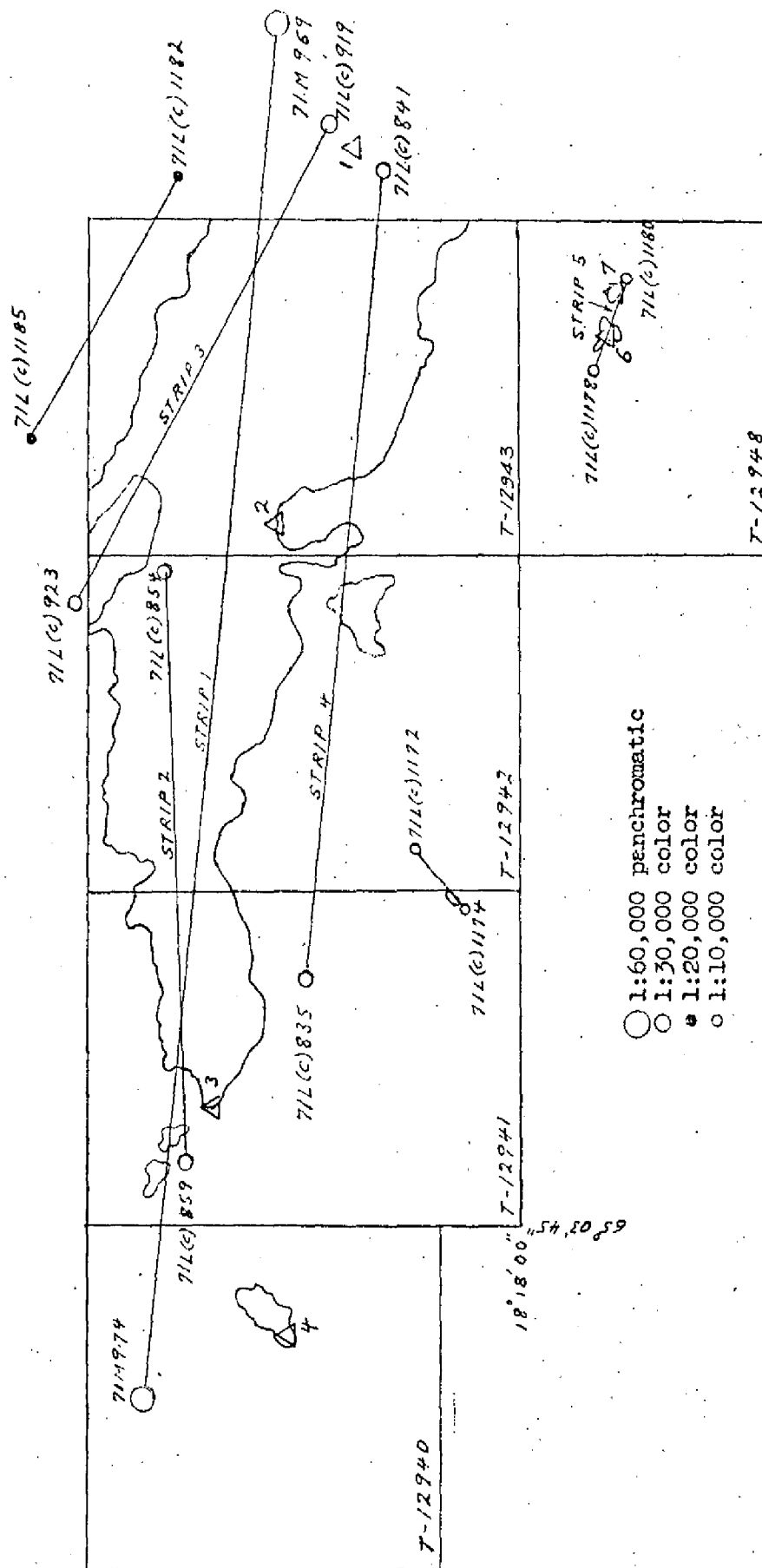
□ 6801 (0.0 0.0)
 6802 (+1.8 +0.4)
 7801 (-0.7 -0.1)
 27801 (-0.2 +2.3)
 9801 (-1.8 -0.9)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)
 10801 (-1.5 +0.9)
 10802 (+0.4 +0.3)
 □ 21801 (0.0 0.0)

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)

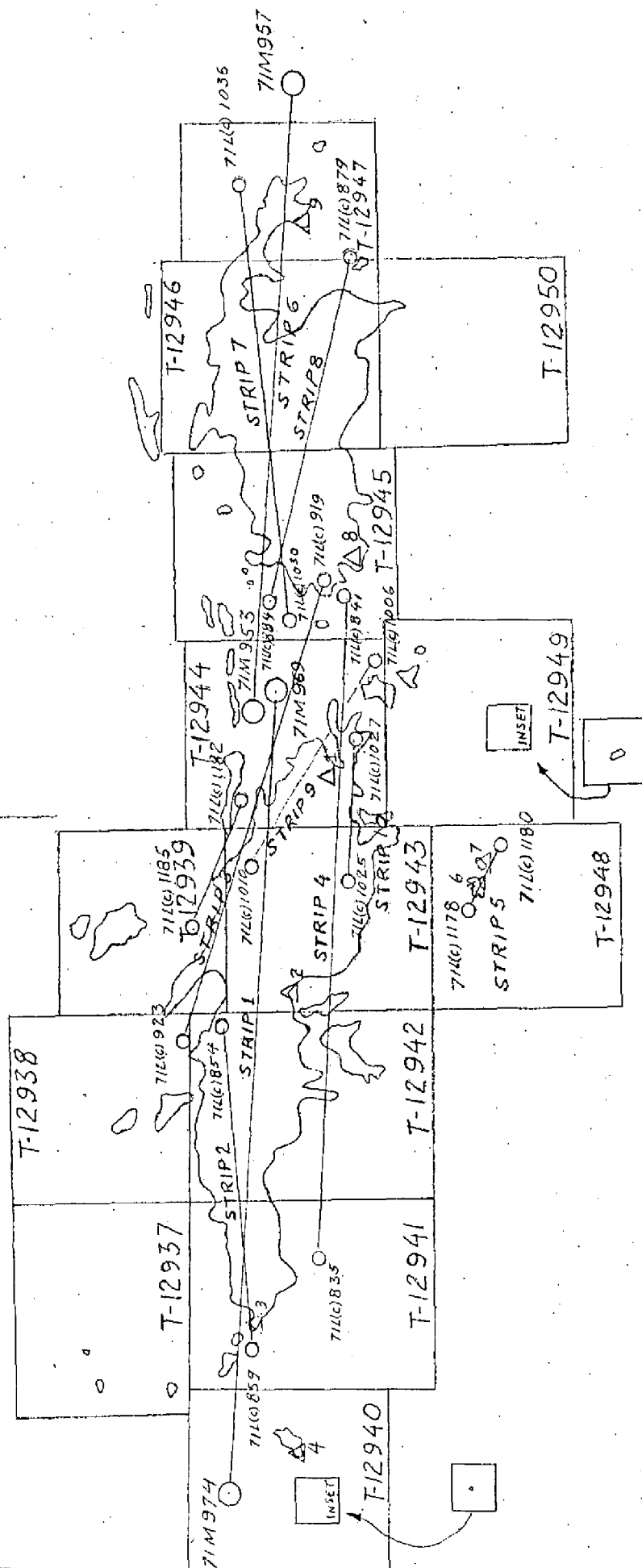
AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job PH-6504
January 1972

N ↑



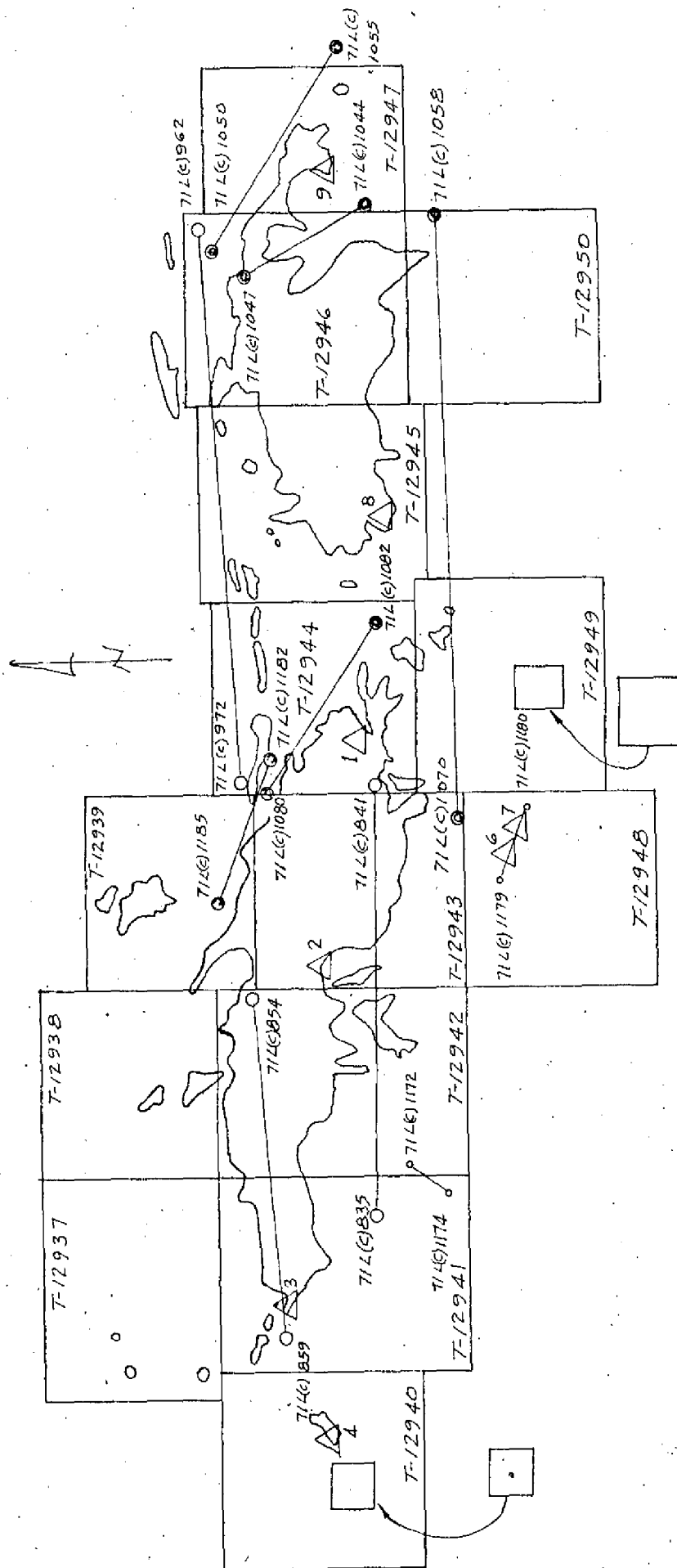
- 1:60,000 panchromatic
- 1:30,000 color
- * 1:20,000 color
- 1:10,000 color

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-12949

31. DELINEATION:

1:5,000 (inset) and 1:30,000 scale color photography was set on the B-8 stereoplotter to delineate shoreline and shoreline features. Sufficient passpoints were dropped along the shoreline for hydro support.

32. CONTROL:

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

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAIL:

The mean high water line was compiled from 1:30,000 and 1:5,000 (inset) scale color photography set on the B-8 plotter.

36. OFFSHORE DETAIL:

No comment.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

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

40. HORIZONTAL AND VERTICAL ACCURACY:

No comment.

41. Thru 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with U.S.G.S. Quadrangle EASTERN ST. THOMAS, V. I., 1958, contour interval 40 feet, scale 1:24,000.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart No. 938, scale 1:15,000, 4th Edition, October 10, 1970.

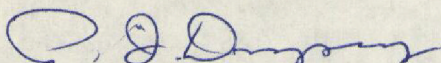
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

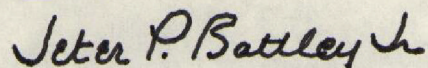
None.

Respectfully Submitted:



P. J. Dempsey
Cartographer

Approved:



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

ADDENDUM TO COMPILATION REPORT

T-12949

Where necessary, the mean high water line was changed slightly when the photobathymetry models were set. The viewing scale of these models gave a better determination of the mean high water line.

All rock elevations are from field edit which was accomplished in April, 1973.

Charles H. Bishop

Charles H. Bishop
Final Reviewer
November 30, 1976

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12949

Bovoni Cay

Calf Rock

Caribbean Sea

Cas Cay

Christmas Cove

Cow Rock

Dog Island

Dog Island Cut

Dog Rocks

Fish Cay

Frenchcap Cay

Great St. James Island

Jersey Bay

Little St. James Island

Patricia Cay

Patrick Point

Red Point

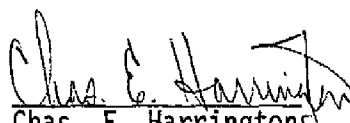
St. James Bay

St. James Cut

The Stragglers

Welk Rocks

Approved


Chas. E. Harrington
Staff Geographer-C51x2

PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 12949

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) CHB	7. PHOTO HYDRO STATIONS NA	
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT ELR	11. DETAIL POINTS CHB NA
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE NA	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES NA
16. AIDS TO NAVIGATION NONE	17. LANDMARKS NONE	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES NA
PHYSICAL FEATURES			
20. WATER FEATURES CHB	21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA	
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES CHB NA
CULTURAL FEATURES			
27. ROADS NA	28. BUILDINGS NA	29. RAILROADS NA	30. OTHER CULTURAL FEATURES NA
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB	34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS CHB	39. FORMS CHB
40. REVIEWER C. Bishop <i>Charles H Bishop</i> Nov 19, 1975		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 C. Lewis <i>CFL</i> May, 1973 C. Bishop <i>CHB</i> Nov, 1975		SUPERVISOR <i>Joseph W. Vonasek</i> Joseph W. Vonasek	
43. REMARKS			

FIELD EDIT REPORT
Sheet T-12949
Cas Cay to Dog Island
St. Thomas-St. John, U.S.V.I.
April 1973

51. METHODS

Field edit work was done under instructions provided to the NOAA Ship Whiting, Job PH 6504, and under instructions provided under the Photobathymetric Survey, CM 7304. For this reason, two Field Edit Copy Discrepancy Prints are included for this sheet.

A visual inspection and verification was made of all shoreline and alongshore features. Since there exists only a 0.7 ft. tide range, heights of rocks were taken at approximate low water. All additions, deletions, and corrections are indexed on the field edit ozalids.

52. ADEQUACY OF COMPILATION

Compilation was adequate in the delineation of shoreline features. Many rocks visible on the photographs did not bare at low water, and rock areas are as described on the field edit ozalid.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

No geographic name discrepancies were found in this area.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

No landmarks or nonfloating aids to navigation are recommended for charting on this sheet.

58. MISCELLANEOUS

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

Respectfully Submitted,

James W. Davis

James W. Davis
Lt(jg). NOAA
Chief, Sub-unit, Photo Party 62

REVIEW REPORT T-12949

SHORELINE

December 1, 1976

61. GENERAL STATEMENT:

See Summary which is Page ⁷ of this Descriptive Report.

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic survey was available for comparison west of Great St. James Island. The St. James Island and Dog Island area was compared with a copy of Survey T-3779, 1:10,000 scale, dated 1918. Significant differences are shown on the comparison print in blue.

In the area compared, T-12949 supersedes T-3779 for nautical chart construction purposes. T-3779 is the latest registered prior survey 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., scale 1:24,000 dated 1954. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

West of longitude 64° 49' 42" a comparison was made with the verified smooth sheet for Survey H-9353 (WH-10-1-73) and east of this longitude, a comparison was made with the verified smooth sheet for Survey H-9365 (WH-10-2-73). No significant differences were noted.

65. COMPARISON WITH NAUTICAL CHARTS:

All of this map except Frenchcap Cay was compared with Chart 25647, 1:15,000 scale, 5th edition, dated September 7, 1974. Significant differences are shown on the comparison print in red.

Frenchcap Cay was visually compared with Chart 25641, 1:100,000 scale, 14th edition, dated April 24, 1976. No 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 requirements of Bureau Standards and the National Standards of Map Accuracy.

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
December 1, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch,
Atlantic Marine Center

Approved:

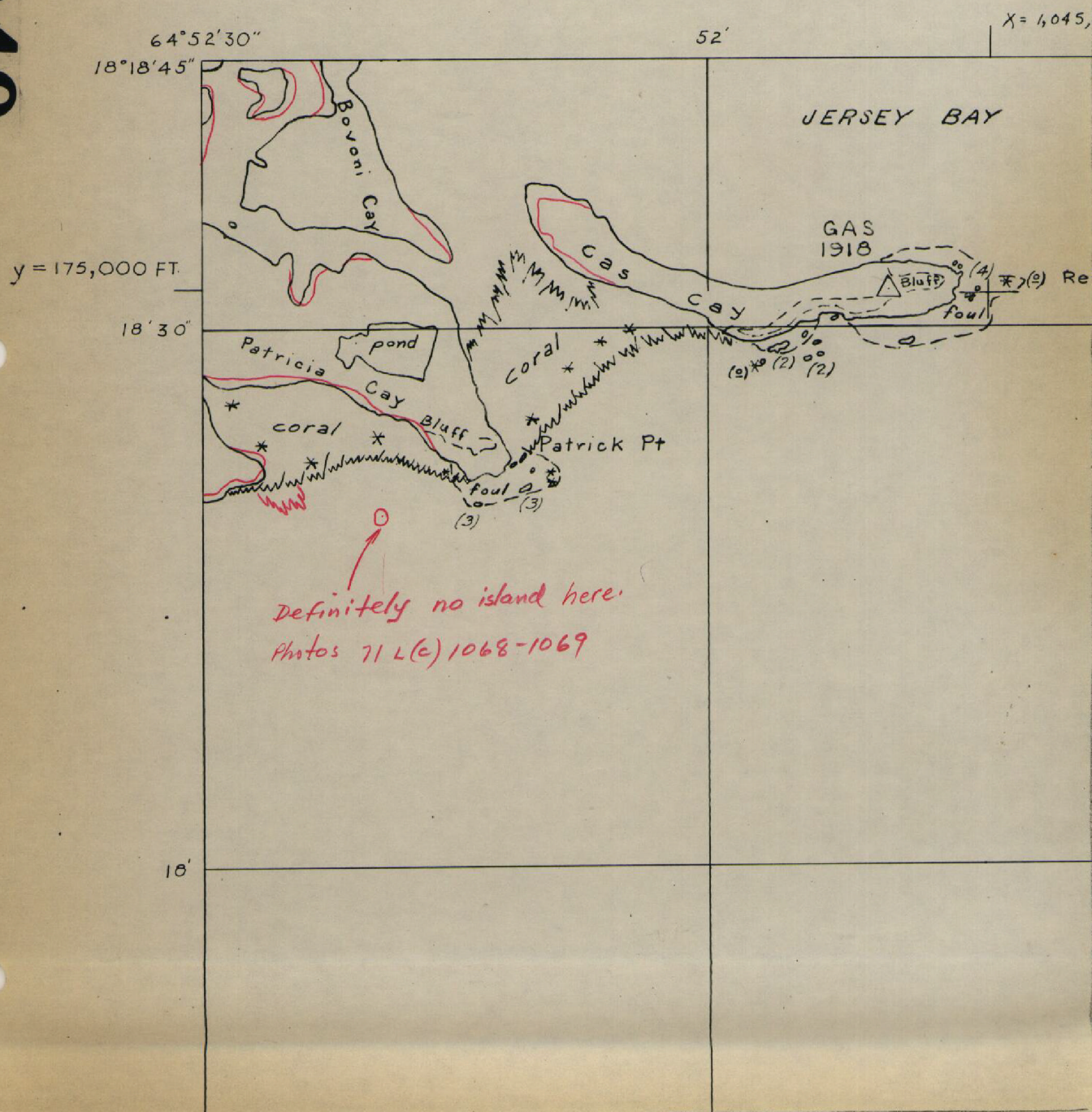
W. K. [Signature]
Chief, Photogrammetric Branch

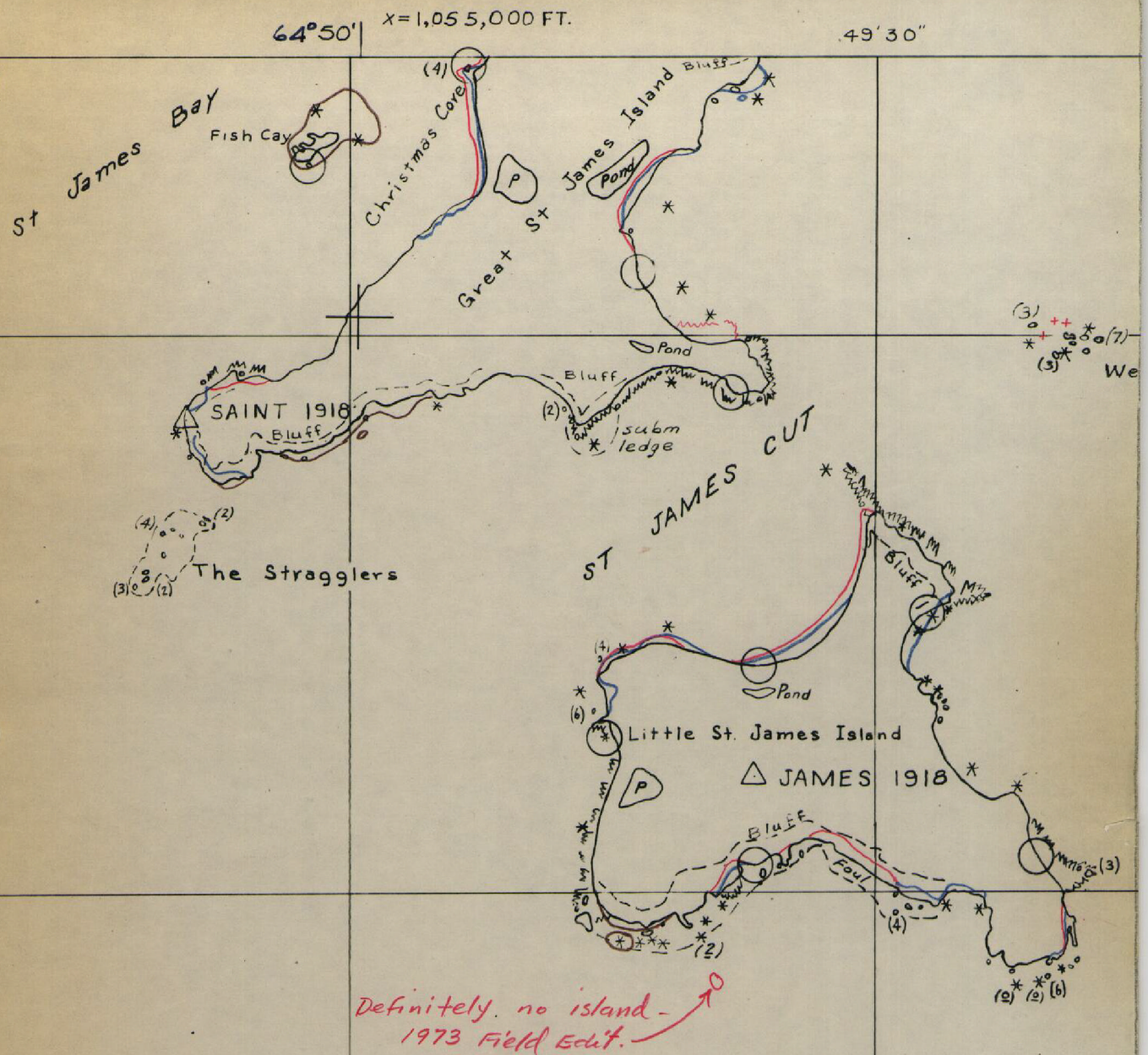
James [Signature]

Chief, Coastal Mapping Division

COMPARISON PRINT

Red = Chart 25647





COMPARISON PRINT

Red = Chart 25647
 Blue = T-3779
 Brown = USGS

S E A

18°17'30"

X=1,060,000 FT.
49'

64° 48' 30"

18° 18' 45"

Ik Rocks

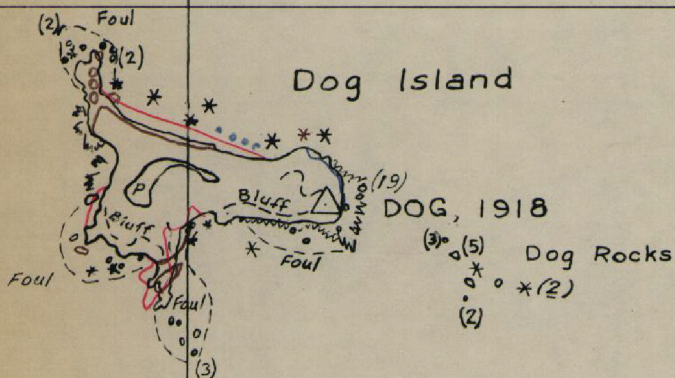
COMPARISON PRINT

Red = Chart 25647

Blue = T-3779

Brown = USGS

Dog
Island
Cut



18'

y=170,000 FT.

17' 30"

T-12949
National Archives Data

2 Discrepancy Prints (Field Edit Sheets)

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

Photography: 71-L(C) 1065, 1066, and 1067
72-E(C) 7562