

T-12940

T-12940

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-12940
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State Virgin Islands
General Locality St. Thomas
Locality Savana Island

1971 TO ~~1975~~ 1975

REGISTRY IN ARCHIVES

DATE

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

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY ~~TK~~ T-12940

MAP EDITION NO. (1)

MAP CLASS Final (F.E.)

JOB PH- 6504

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division
(Rockville and Norfolk)

OFFICER-IN-CHARGE

Jack Guth (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

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 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 METHOD: Analytic	BY LANDMARKS AND AIDS BY	D. Norman	Dec. 1971
2. CONTROL AND BRIDGE POINTS METHOD: Conadi	PLOTTED BY CHECKED BY	D. Phillips D. Phillips	Jan. 1972 Jan. 1972
3. STEREOSCOPIC INSTRUMENT X Graphic COMPILATION INSTRUMENT: SCALE: 1:10,000	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY	J. Battley J. Richter Inapplicable N.A.	Jan. 1972 Jan. 1972
4. MANUSCRIPT DELINEATION METHOD: Inked SCALE: 1:10,000	PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY	J. Battley J. Richter Inapplicable N.A. J. Battley J. Richter	Jan. 1972 Jan. 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	J. Richter	Jan. 1972
6. APPLICATION OF FIELD EDIT DATA	BY CHECKED BY	R.R. White C.H. Bishop	Aug. 1975 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. CATOR	MAR 1977

NOAA FORM 76-36A

SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)T-12940
COMPILATION SOURCESU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

1. COMPILATION PHOTOGRAPHY

CAMERA(S)

Wild RC-8 "L" & "M" RC-9 "M"

TYPES OF PHOTOGRAPHY
LEGEND

- (C)
- COLOR
-
- (P)
- PANCHROMATIC
-
- (I)
- INFRARED

TIME REFERENCE

ZONE

Atlantic

☒ STANDARD

MERIDIAN

60th

☐ DAYLIGHT

TIDE STAGE REFERENCE

- ☒
- PREDICTED TIDES
-
- ☐
- REFERENCE STATION RECORDS
-
- ☐
- TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
* 71L(C) 859 & 860	15 NOV 71	09:20	1:30,000	1.3 ft. above MLW
** 71L(C) 1217 & 1218	21 NOV 71	09:38	1:20,000	1.5 ft. above MLW
71M(P) 970 & 971	27 NOV 71	10:45	1:60,000	0.8 ft. above MLW
71L(C) 988 - 990	15 NOV 71	09:30	1:5,000	0.8 ft. above MLW

REMARKS *Southwest part of Savana Island not in stereo model.

**All of Savana Id. covered stereoscopically. These photos used graphically to revise MHWL in Nov., 1975 at AMC

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:

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

T-12937 ✓

EAST

T-12941 ✓

SOUTH

No Contemporary Survey ✓

WEST

No Contemporary Survey ✓

REMARKS

T-12940

HISTORY OF FIELD OPERATIONS

1. ☒ 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	Oct. 1971
	R. S. Tibbetts	Oct. 1971
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED BY	
	NA	
	NA	
	NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	
	R. S. Tibbetts	Oct. 1971
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	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

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

One fixed aid located by field methods was not identified.

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 CSI card

Data required for computation of positions of PANEL.

T -12940
HISTORY OF FIELD OPERATIONS1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Robert S. Tibbetts	8/5/75
2. HORIZONTAL CONTROL	RECOVERED BY Robert S. Tibbetts	Feb. 1975
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY N/A	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A	
	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 Robert S. Tibbetts	Feb. 1975
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

711860

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 Field Edit Report
- 2 Field Edit Ozalids (Discrepancy Prints)

T-12940
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
1975 Field edit applied Compilation complete	Aug. 1975	Class I Manuscript Superseded	Aug. 1975	
Original MHWL revised using Photos 71L 1217 & 1218. Additional edit requested	Nov. 1975	Superseded	Nov. 1975	
Additional Edit Applied Final Review	Aug. 1976 Oct. 1976	Superseded 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. 1974	Form 76-40 for Fixed Aid (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

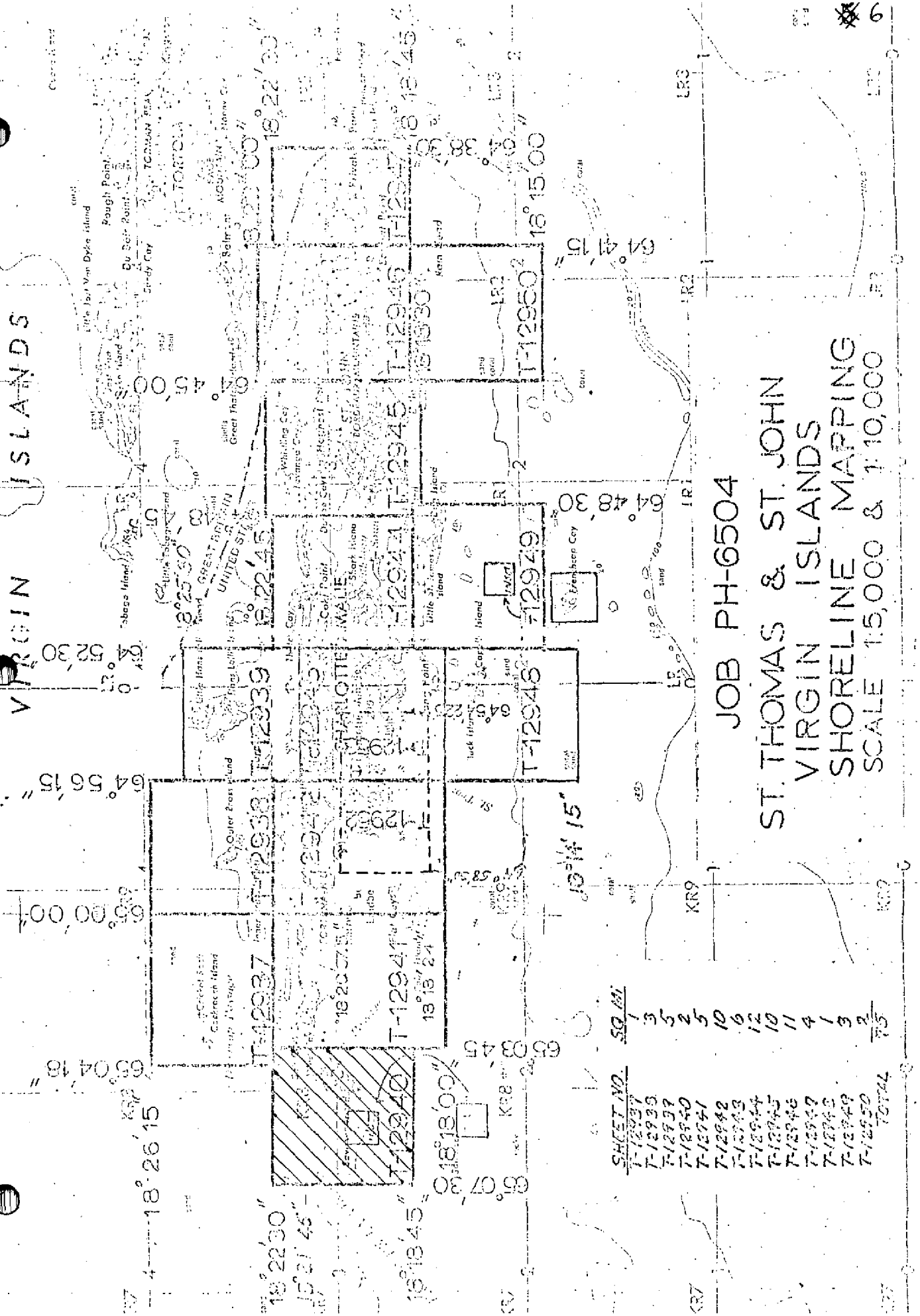
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ~~76-40~~ 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL

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	5
T-12939	5
T-12940	2
T-12941	5
T-12942	10
T-12943	6
T-12944	12
T-12945	10
T-12946	11
T-12947	4
T-12948	1
T-12949	3
T-12950	2
TOTAL	75

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS T-12937 THROUGH T-12950

Project PH-6504 is a shoreline mapping project which is the source of up-to-date shoreline for contemporary hydrographic surveys of the St. Thomas - St. Johns area of the U. S. Virgin Islands. Fourteen of the maps are at 1:10,000 scale and two are at 1:5,000 scale. T-12952 and T-12953 (St. Thomas Harbor, 1:5,000 scale) were compiled from 1965 photography and edited in 1966. They were final reviewed in 1967 and registered prior to compilation of the remaining maps.

This project is not to be confused with Job CM-7304, a photobathymetry project having the same scale and area limits as PH-6504. The maps were designated by the same numbers as PH-6504 maps, but as second editions (T-12937(2), etc.). As nothing but depths and curves (no shoreline) appear on the photobathymetry maps, they do not qualify as second editions or revisions. Job CM-7304 as a project was cancelled, the parenthesis 2 was removed from the map numbers, and the note "This map has the same area limit as" was added in the identification corners of the photobathymetry maps. Job CM-7304 was not registered; it was turned over to the Verification Branch, Atlantic Marine Center. See Instructions - OFFICE - Job Disposition, CM-7304, Photogrammetric Bathymetry, St. Thomas and St. John Islands, Virgin Islands, dated August 3, 1976.

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

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

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

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

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

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

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

PHOTOGRAMMETRIC PLOT REPORT

Virgin Islands

Job PH-6504

August 1972

21. Area Covered

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

22. Method

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

23. Adequacy of Control

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

24. Supplemental Data

Vertical control was taken from USGS topographic quadrangles.

25. Photography

The photography was adequate.

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

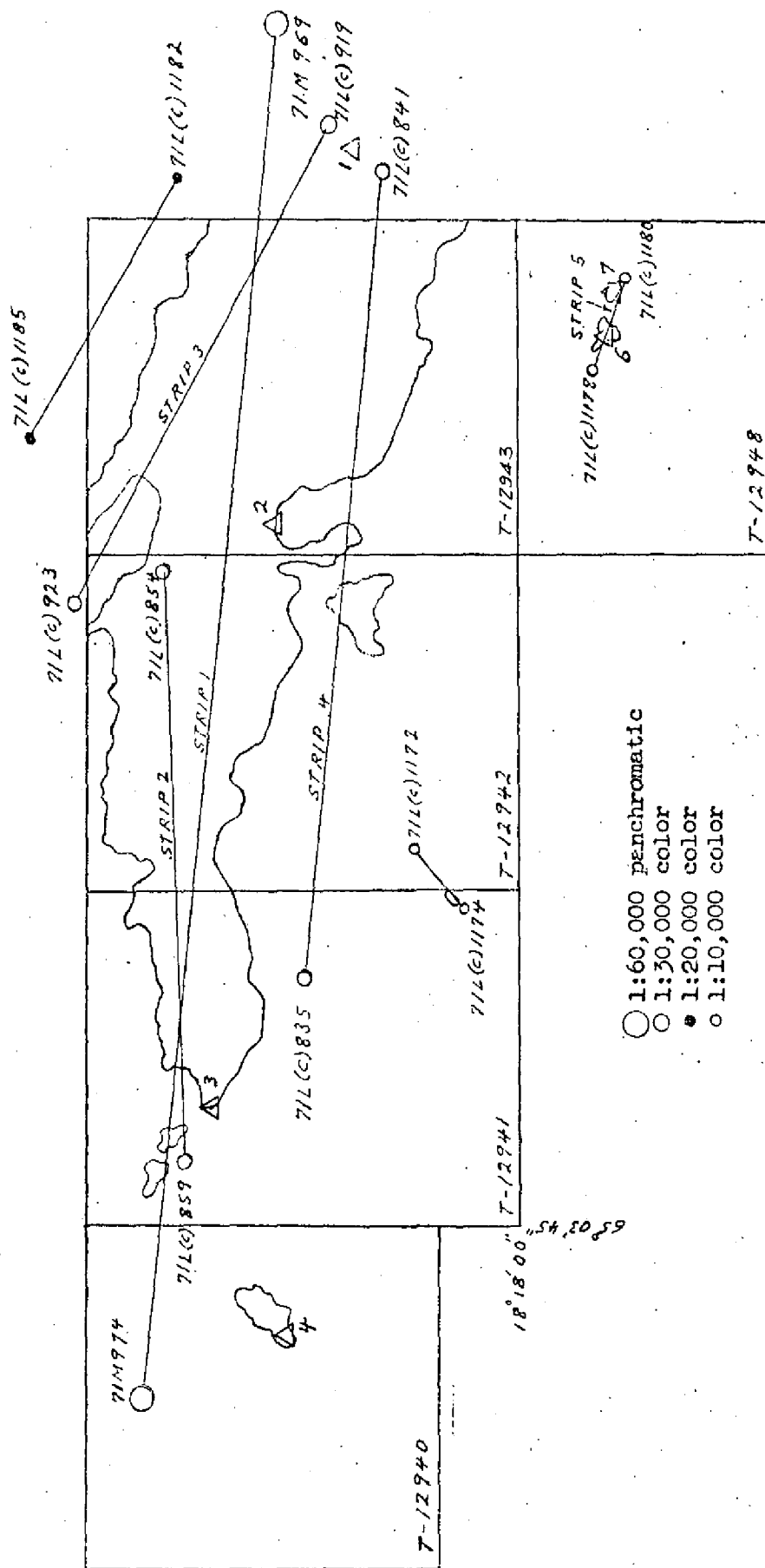
□ 6801 (0.0 0.0)
 6802 (+1.8 +0.4)
 7801 (-0.7 -0.1)
 27801 (-0.2 +2.3)
 9801 (-1.8 -0.9)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)
 10801 (-1.5 +0.9)
 10802 (+0.4 +0.3)
 □ 21801 (0.0 0.0)

STRIP #10

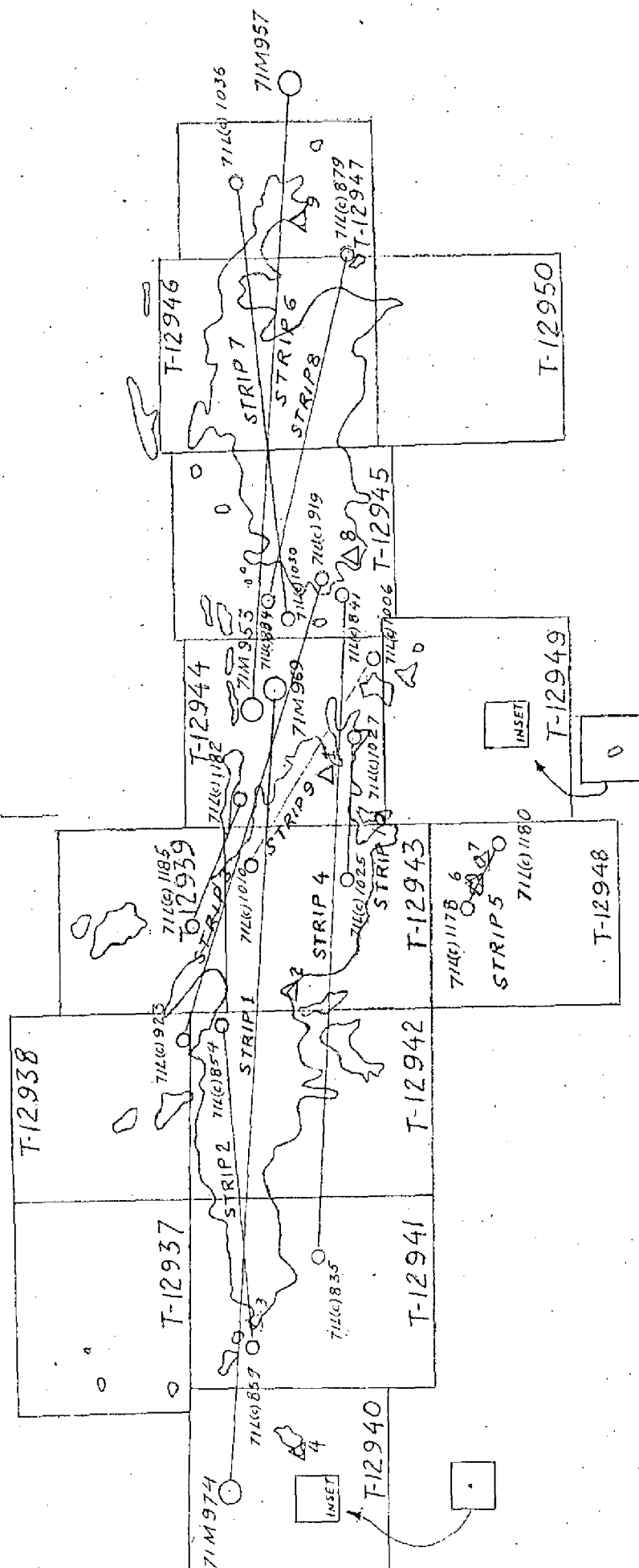
□ 25801 (0.0 0.0)
 25802 (-0.1 +4.5)
 □ 27801 (0.0 0.0)
 41802 (+2.7 +0.3)
 Δ 1 No. 97 (cadastral survey) - sub station (0.0 0.0)

AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job PH-6504
January 1972

N

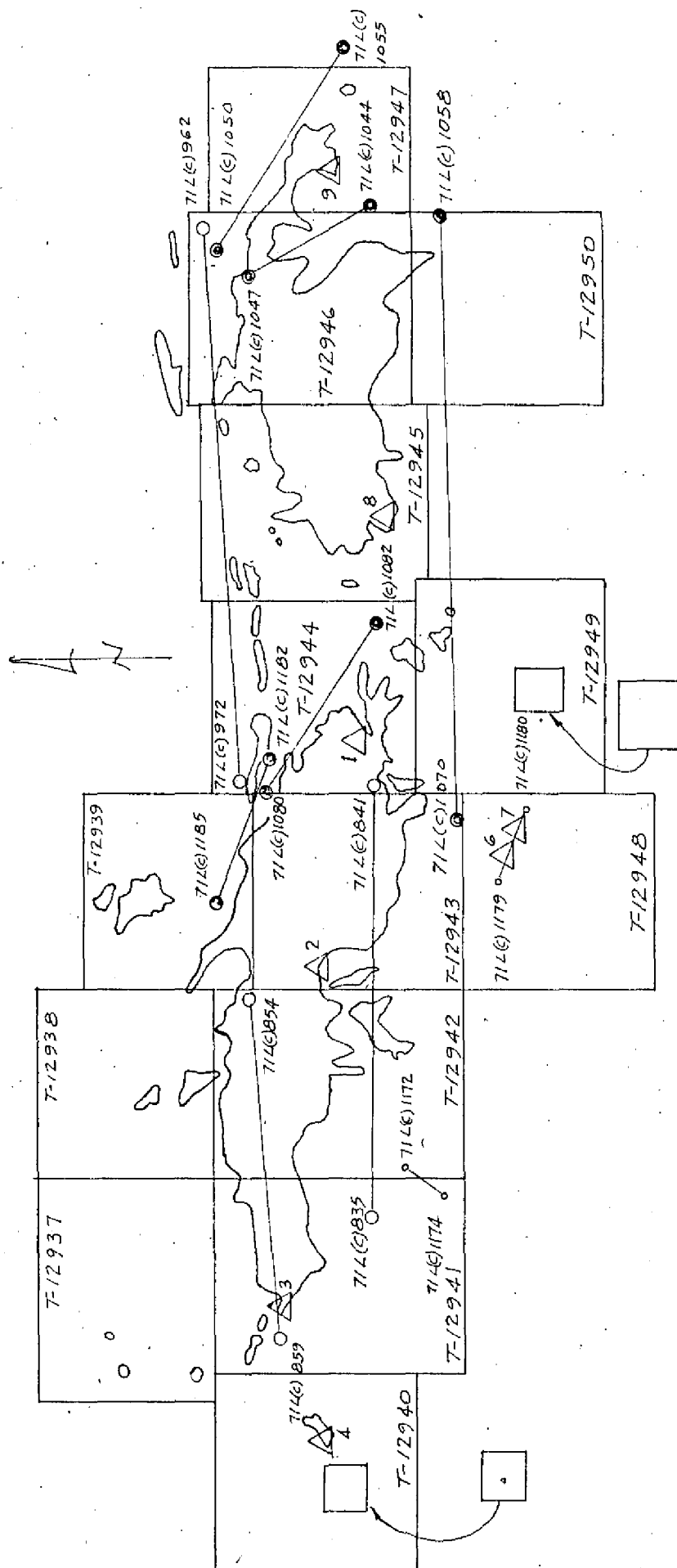


AEROTRIANGULATION SKETCH VIRGIN ISLANDS JOB. PH-5534



- 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.	JOB NO.	PH-6504	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>SE</u> <u>THOMAS</u> ZONE <u>Virgin Islands Extension</u>	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	ORIGINATING ACTIVITY
T-12940				Puerto Rico	Atlantic Marine Center	
STATION NAME						REMARKS
SAVANA, 1900	P.C.p. 22 GP.p. 59			X= 968,117.77 ✓ Y= 185,468.96 ✓	ϕ 18 20 21.708 ✓ λ 65 05 00.454 ✓	
SAIL ROCK, 1900	GP p. 124 P.C.p. 50			X= 962,125.10 ✓ Y= 165,765.11 ✓	ϕ 18 17 06.80 ✓ λ 65 06 04.15 ✓	
*Southernmost subm. rock West of Sail Rock	Hydrographic Records D.P. 5079			X= ✓ Y= ✓ X= ✓ Y= ✓	ϕ 18 17 05.03 λ 65 06 11.14	
*This position was used to properly orient Sail Rock in azimuth.				X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓ X= ✓ Y= ✓	ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓ ϕ ✓ λ ✓	
COMPUTED BY			DATE	COMPUTATION CHECKED BY		DATE
LISTED BY CHB			10/4/75	LISTING CHECKED BY CHB		DATE 11/4/75
HAND PLOTTING BY			DATE	HAND PLOTTING CHECKED BY		DATE

COMPILATION REPORT

T-12940

31. DELINEATION

1:30,000 scale color photography ratioed to 1:10,000 scale was used to graphically delineate shoreline and shoreline features. Sufficient pass points to control graphic compilation were dropped from the 1:60,000 scale bridge.

32. CONTROL

See Photogrammetric Plot Report dated, August, 1972, 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 graphically from office interpretation of 1:30,000 color photographs ratioed to 1:10,000 scale.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

One Aid to Navigation, Savana Island Light, was plotted. There are no Landmarks.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-368.5, bound with this Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

41. - 45.

Not used

46. COMPARISON WITH EXISTING MAPS

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

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 905, scale 1:100,000, 9th edition, dated May 1, 1971.

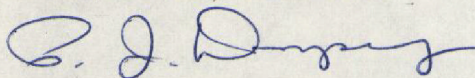
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

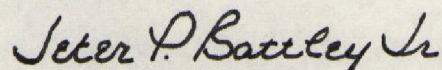
None

Respectfully submitted:



P.J. Dempsey
Carto. (Photo)

Approved:



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

ADDENDUM TO THE COMPILATION REPORT

T-12940

Sail Rock was compiled graphically, using Station SAIL ROCK, 1900 and the position of the southernmost submerged rock west of Sail Rock as control. The position of the rock was determined in the Verification Branch, AMC, from data submitted by the Ship WHITING in 1976.

Charles H. Bishop

Charles H. Bishop
August, 1976

September 13, 1976

19

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12940

Atlantic Ocean

Caribbean Sea

Din Pit

Domkirk Rock

Sail Rock

Savana Island

Savana Passage

Virgin Point

Approved



Chas. E. Harrington
Staff Geographer -C51x2

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

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12940

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		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT E.L.R.	11. DETAIL POINTS CHB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE NA	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES NA
16. AIDS TO NAVIGATION CHB	17. LANDMARKS NA	18. OTHER ALONGSHORE PHYSICAL FEATURES E.L.R.	19. OTHER ALONGSHORE CULTURAL FEATURES NA
PHYSICAL FEATURES			
20. WATER FEATURES E.L.R.		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 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 NA	35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY CHB	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS CHB
40. REVIEWER C.H. Bishop 11/4/75		SUPERVISOR, REVIEW SECTION OR UNIT 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 11/8/29/75 R.R. White		SUPERVISOR E. L. Rolfe Jr Joseph W. Vonasek	
43. REMARKS 1975 Field edit from Discrepancy Print (F.E. copy) and Photo 71L 860.			

Field Edit Report
Virgin Islands, 1975
Job ~~GM-7304~~ PH-6504
Sheet T -12940

51. METHODS

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

52. ADEQUACY OF COMPILATION

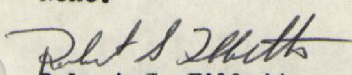
The sheet accompanying this report has been field edited and may be considered adequate for charting after indicated changes have been made.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.


Robert S. Tibbetts
Chief, Photo Party 62

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<div>ORIGINATOR</div> <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	OFFICE ACTIVITY REPRESENTATIVE <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
OFFICE 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) 8. 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 II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
FIELD 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.	

REVIEW REPORT T-12940

SHORELINE

October 7, 1976

61. GENERAL STATEMENT:

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

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison of Savana Island was made with a 1:20,000 scale copy of 1:10,000 scale Survey T-3769, dated 1918. Shoreline differences are shown on the comparison print in blue. Considering the method used for the old survey, the comparison is good.

No previous surveys of Sail Rock were available for comparison.

In the area compared, T-12940 supersedes T-3769 for nautical chart construction purposes. T-3769 is the latest registered survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangle WESTERN ST. THOMAS, V.I., 1:24,000 scale, dated 1955. Significant differences are shown in brown on the comparison print. Apparently there is a datum shift: The north tip of Savana Island on the quadrangle is southeast of the same position on T-12940.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Savana Island was compared with the Boat Sheet for Survey H-9617 (WH-10-5-76). No significant differences were noted.

Sail Rock was compared with the Boat Sheet for Survey H-9616 (WH-10-4-76). The position of the southernmost rock in the group of submerged rocks approximately 130 meters west-southwest of Sail Rock was found to be in disagreement. This position was recomputed by the Verification Branch, AMC and the rock replotted on T-12940. The position of three other submerged rocks in the vicinity were corrected, also. The change in position of this rock did not affect the orientation of Sail Rock on the map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 25641, 1:100,000 scale, 14th edition, dated April 24, 1976. A wreck charted on the north side of the reef east of Savana Island was not found by the field editor. No other significant differences were noted. The chart scale is too small for adequate comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 7, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

A. J. [Signature]

Chief, Photogrammetric Branch

[Signature]

Chief, Coastal Mapping Division

18° 05'

04' 30"

05A0

25

71. L(c) 1217
18° 21'

Din Pt

Foul

* RK

*Not visible on photos;
Not found by
field editor*

+ subm rk

Rk

(8)

20' 30"

SAVANA ISLAND

SAVANA
1900

SAVANA ISLAND LIGHT

* PANEL
(Control Pt)

+ subm rk

VIRGIN PT

Domkirk Rk

*Not visible on photos,
not found by field editor*

COMPARISON PRINT

Blue = T-3769

Brown = USGS

Red = Chart 26541

18° 20'

T-12940

1:10,000

T-12940
National Archives Data

2 Discrepancy Prints (Field Edit Sheets)

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

Photography: 71-L(C) 860