T-12941

ORIGINAL

T-12941

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-12941

Classification No.: Final Edition No.: 1

Field Edited Map

LOCALITY

State: Virgin Islands

General Locality: St. Thomas

Locality: Salt Cay to Turtledove Cay

1971 TO 1975

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

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 ~~XXX~~ T-12941

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 PRECEEDING MAP EDITION

TYPE OF SURVEY: ☐ ORIGINAL ☐ RESURVEY ☐ REVISED

JOB PH- _____

MAP CLASS _____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE	2. FIELD
Dec. 14, 1971 Aerotriangulation Jan. 25, 1972 Compilation	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 Rico; 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 INSTRUMENT: B-8 SCALE: 1:10,000	PLANIMETRY BY	J. Richter	Jan. 1972
	CHECKED BY	P. Dempsey	Jan. 1972
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Inked SCALE: 1:10,000	PLANIMETRY BY	M. Webber	Jan. 1972
	CHECKED BY	J. Richter	Jan. 1972
	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	M. Webber	Jan. 1972
	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	Oct. 1975
7. COMPILATION SECTION REVIEW	BY	C.H. Bishop	Oct. 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 76-36B
(3-72)

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

T-12941

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "L", "M", & "Z" ~~RC-9 RC-10~~

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [X] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Atlantic
MERIDIAN: 60th
- [X] STANDARD
- [ ] DAYLIGHT

	NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
	71L(C) 856 - 859	15 NOV 71	09:19	1:30,000	1.3 ft. above MLW
	71L(C) 835 & 836	15 NOV 71	09:04	1:30,000	1.4 ft. above MLW
	71L(C) 1213 - 1215	21 NOV 71	09:37	1:20,000	0.1 ft. below MLW
*	74Z(C) 7160 - 7167	12 FEB 74	09:30	1:12,000	0.6 ft. above MLW
**	71M(C) 972 - 974	27 NOV 71	10:45	1:60,000	

REMARKS * Stage of tide based on staff reading.
** Bridging only.

2. SOURCE OF MEAN HIGH-WATER LINE:

71 L photos listed in 1. above. Some small corrections were made when photobathymetry was compiled from the 74 Z 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	EAST	SOUTH	WEST
T-12937 ✓	T-12942 ✓	No Contemporary Survey ✓	T-12940 ✓

REMARKS

* U. S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36C
(3-72)

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

T-12941

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	R.S. Tibbetts	Nov. 1971
	ESTABLISHED BY	NA	
	PRE-MARKED BY	R.S. Tibbetts	Nov. 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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

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 ☒ 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 CSI Card
1 Hewlett Packard Data Sheet
2 Form 470 Abstract of Directions
2 Form 24A List of Directions

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C
(3-72)

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

T-12941

HISTORY OF FIELD OPERATIONS

I. ☐ 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	Lawrence H. Davis	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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	Robin D. Wells	Feb. 1975
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

71L860; 71L1213; 71L1214; 71L1215

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*)

32 Discrepancy prints
2 Form 24A List of Directions

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36D
(3-72)

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

T-12941

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
1972 & 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 Landmark (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:

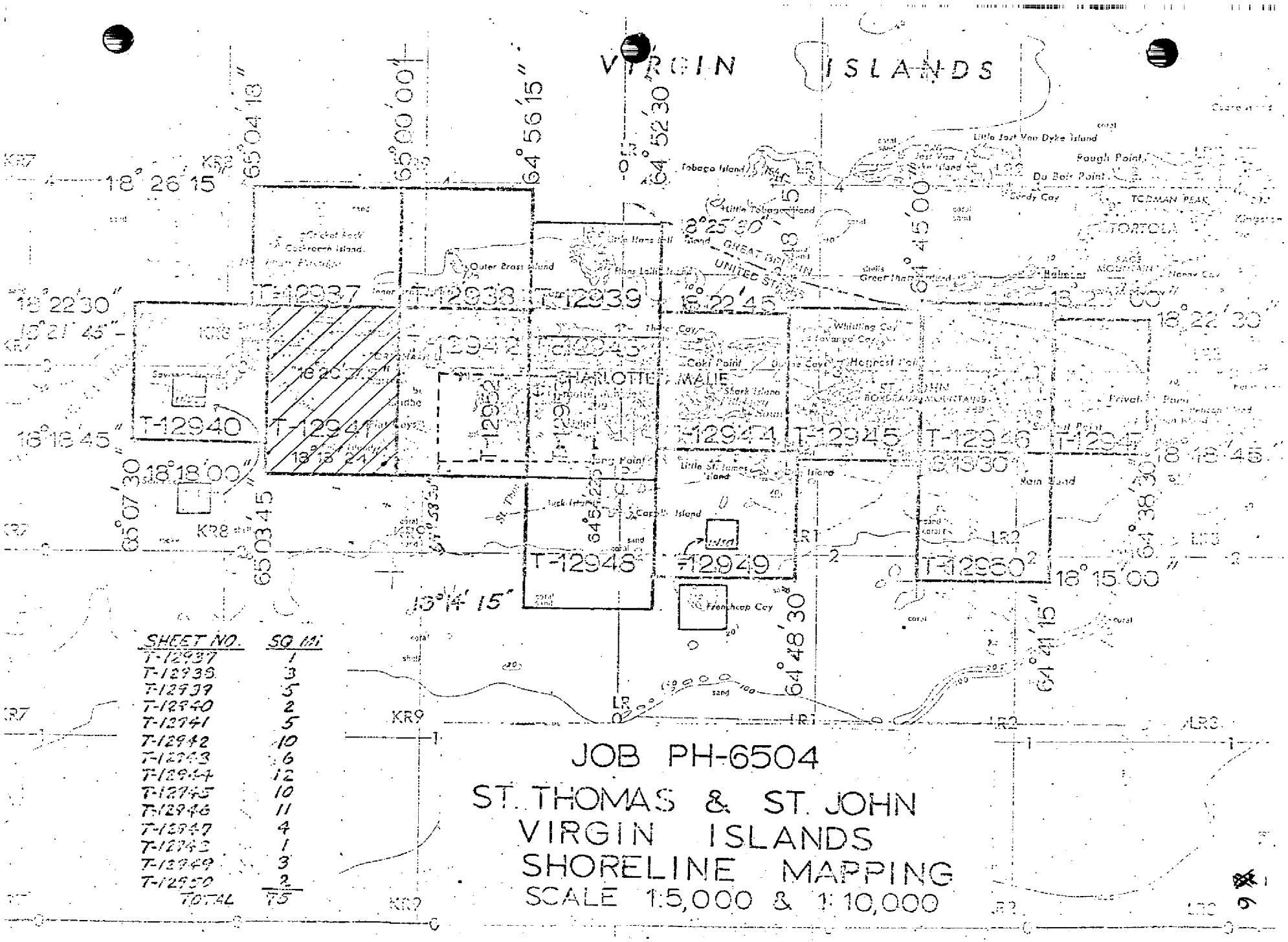
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6



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

JOB PH-6504

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

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.

Respectfully submitted:
Don O. Norman
James E. Schad
Don O. Norman, Cartographer
James E. Schad, Cartographer

Approved and Forwarded:
John D. Perrow, Jr.
John D. Perrow, Jr.
Acting Chief
Aerotriangulation Section

Fit to Control
(x, y) feet

▲ ■ held in adjustment

STRIP #1

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

STRIP #2

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

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

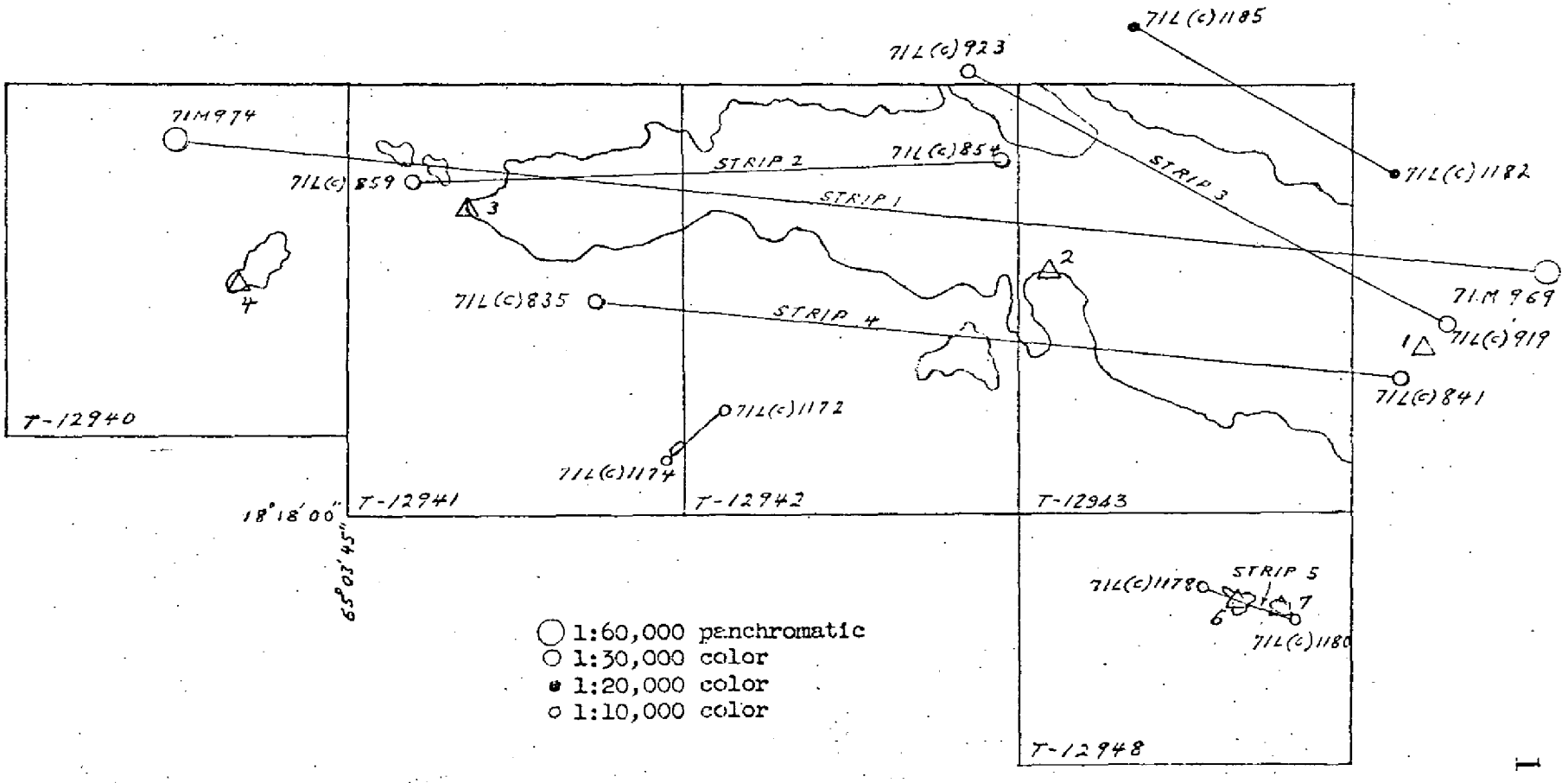
STRIP #9

□ 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)
△ 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)

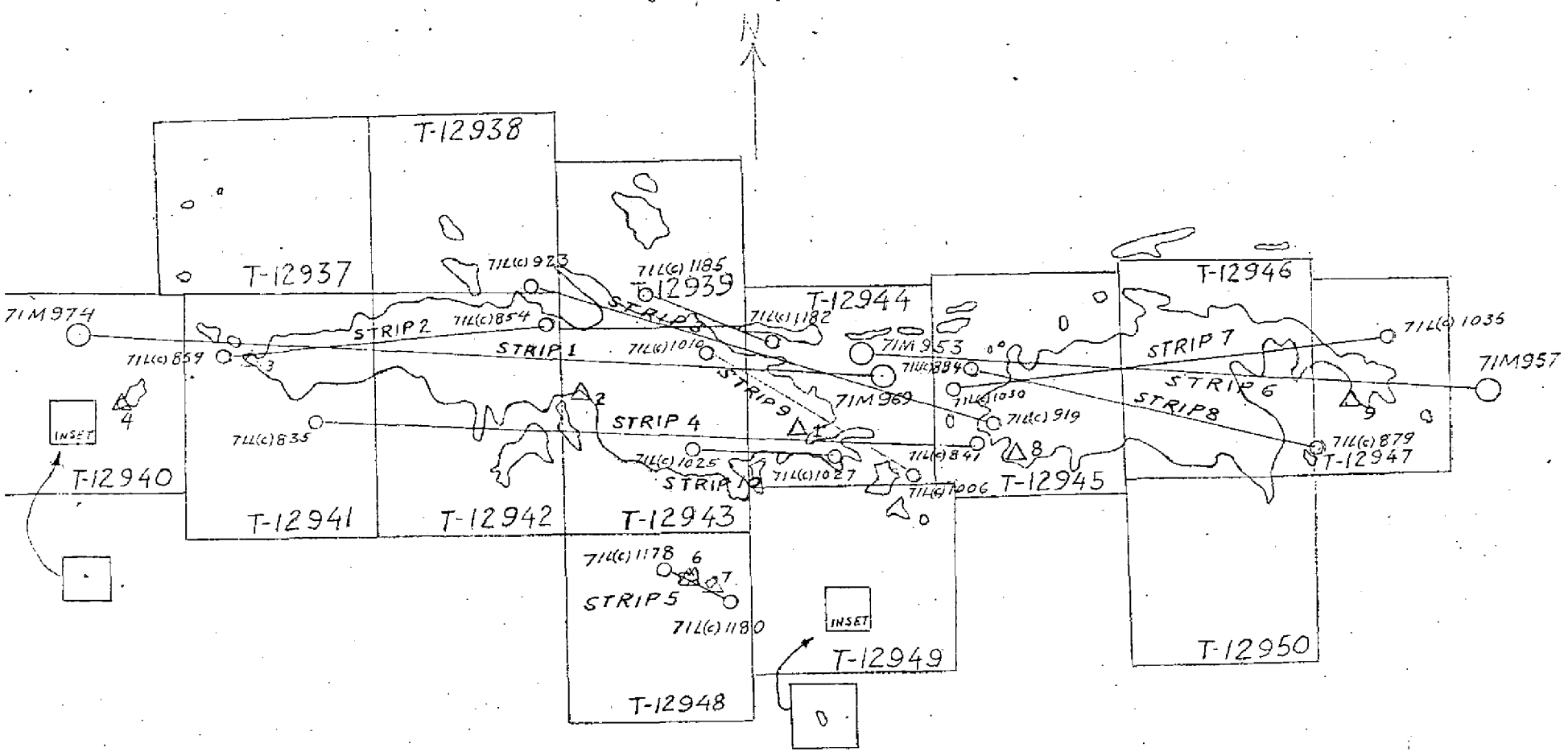
STRIP #10

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

AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job PH-6504
January 1972

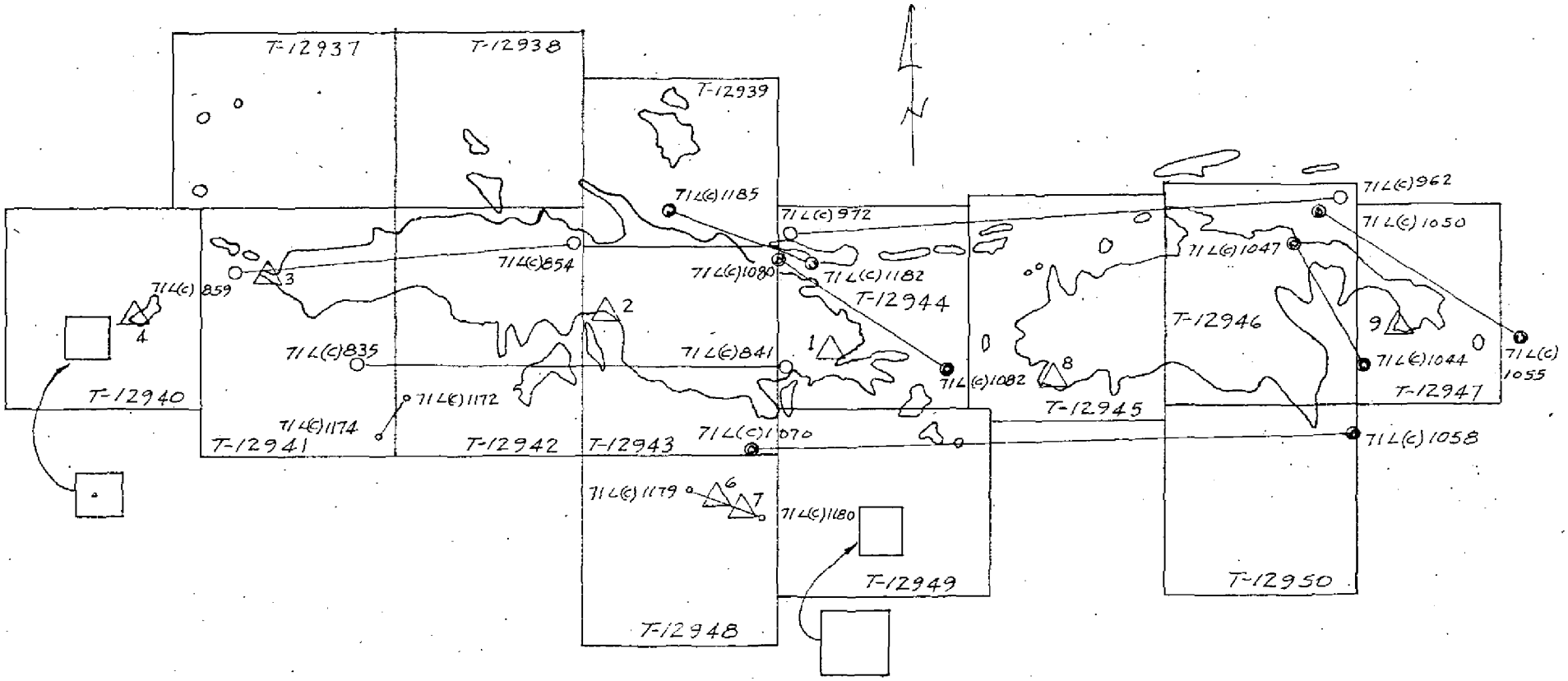


AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
Job, PH-6504



○ 1:60,000 panchromatic
○ 1:30,000 color
● 1:20,000 color
○ 1:10,000 color

AEROTRIANGULATION SKETCH
VIRGIN ISLANDS
JOB. PH-650L



Ratio Photographs

- ◯ 1:60,000 panchromatic
- ○ 1:30,000 color
- ◉ 1:20,000 color
- ∘ 1:10,000 color

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-12941	PH-6504	Puerto Rico	Atlantic Marine Center

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET ~~STATE~~ Puerto Rico / ZONE Virgin Islands Extension	GEOGRAPHIC POSITION φ LATITUDE / λ LONGITUDE	REMARKS
SABA, 1918	P.C. Pg. 22		x= 996,397.88 ✓	φ	
			y= 173,721.64 ✓	λ	
HIGH, 1918	P.C. Pg. 30		x= 996,430 ✓	φ	
			y= 188,862 ✓	λ	
FORTUNA, 1918	P.C. Pg. 29		x= 989,103.61 ✓	φ	
			y= 186,992.28 ✓	λ	
BARE, 1918	P.C. Pg. 33		x= 985,164 ✓	φ	
			y= 188,699 ✓	λ	
BLUFF, 1918	P.C. Pg. 33		x= 982,464 ✓	φ	
			y= 191,165 ✓	λ	
POINT, 1918	P.C. Pg. 29		x= 985,194.81 ✓	φ	
			y= 193,845.16 ✓	λ	
STUMP, 1918	P.C. Pg. 29		x= 994,538.35 ✓	φ	
			y= 196,834.08 ✓	λ	
SALT, 1918	P.C. Pg. 29		x= 978,994.96 ✓	φ	
			y= 195,286.31 ✓	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY C.H.B.	DATE 10/15/76
LISTED BY C.H.B.	DATE 10/15/76	LISTING CHECKED BY C.H.B.	DATE 10/15/76
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

COMPILATION REPORT

T-12941

31. DELINEATION

1:30,000 scale color photography was set on the B-8 stereoplotter to delineate shoreline and shoreline features. 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 scale color photographs set on the B-8 stereoplotter.

36. OFFSHORE DETAILS

No comment

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36B#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, 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)
January, 1972

Approved:

Jeter P. Battley Jr

Jeter P. Battley
Chief, Coastal Mapping Section, Rockville

ADDENDUM TO COMPILATION REPORT

T-12941

When photobathymetry was compiled in October, 1975 (Project CM-7304, T-12941(2)), some minor changes to the mean high water line on T-12941 (Project PH-6504) were made. This was warranted by the more favorable scale of the photography used for bathymetry.

As a result of 1976 field edit, one landmark was added at the time of Final Review.

Charles H Bishop
Charles H. Bishop
Photo Office Reviewer
10/30/75

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12941

Atlantic Ocean

Barents Bay

Big Current Hole

Bordeaux Bay

Bordeaux Point

Botany Bay

Botany Point

Caribbean Sea

David Point

Drum Rock

Dry Rock

Fortuna Bay

Kalkun

Krabbepan Point

Little St. Thomas

Lucas Point

Mermaids Chair

Montalvan Point

Runnel Bay

Saba Island

St. Thomas

Salt Cay

Salt Cay Passage

Saltwater Money Rock

Sandy Bay

Savana Passage

Southwest Road

Stumpy Bay

Stumpy Point

Target Rock

Turtledove Cay

West Cay

William Head

Approved

Chas. E. Harrington
Staff Geographer -C51x2

FORM C&GS-1002 (9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T- 12941

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CHB	CHB	CHB	CHB

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
CHB	NA	NA

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
NA	NA	E.L.R.	NA

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
CHB	NA	CHB	NA

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
None	None	None	None

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
CHB	NA	NA

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA	NA	~~NA~~ CHB

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
NA	NA	NA	NA

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
NA	NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
CHB	CHB	CHB

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
J.P.B.	CHB	CHB	CHB

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
Charles H Bishop Charles H. Bishop 10/30/75	Joseph W Vonasek Joseph W. Vonasek

41. REMARKS *(See attached sheet)*

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER	SUPERVISOR
R.R. White R.R. White 8/1975 Reviewer: C.H. Bishop Charles H Bishop 10/1975	Joseph W Vonasek Joseph W. Vonasek

43. REMARKS

Field edit applied from Field Edit Ozalid and Photos
71 L 1213, 1214 and 1215.

Field Edit Report
Virgin Islands, 1975
Job ~~CM-7304~~ PH-6504
Sheet T-12941

51. METHODS

Field edit was concerned mainly with rock heights and elevation; the shore line was observed from the water. Positions for Dry Rock and Sail Rock may be determined by computing positions determined by intersection; the positions plot well graphically. Lists of directions are included.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

Chart Dry Rock and Sail Rock in the position they are located on the ozalid. If questions develop concerning the area edited in 1972, consult the field notes indicated on the photographs used in 1972.

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

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [ ] COMPILATION ACTIVITY
- [X] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [X] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div. Norfolk, VA	Virgin Islands	St. Thomas	10/21/76

The following objects HAVE [X] HAVE NOT [ ] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
423	PH-6504	T-12941	Puerto Rico

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
TOWER (VOR)	Vor for Harry S. Truman Airport	18 21	28.008 861	65 01	29.778 874		F-1-3-L 1972	25641
	NOTE: No Form 76-40 submitted by field party							

22

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ 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

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	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.

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

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.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-665-073/1030 Region 6

REVIEW REPORT T-12941

SHORELINE

October 15, 1976

61. GENERAL STATEMENT:

See Summary which is page 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 was made with 1:20,000 scale copies of 1:10,000 scale Surveys T-3769 and T-3770, both dated 1918. Considering the date of these surveys and the method used at that time, the comparison was good. Differences are shown on the comparison print in blue.

In the area compared, T-12941 supersedes T-3769 and T-3770 for nautical chart construction purposes. T-3769 and T-3770 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 WESTERN ST. THOMAS, V.I., 1:24,000 scale, dated 1955. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The north shore of Salt Cay, West Cay, and St. Thomas was compared with the unverified sounding overlay for Survey H-9601 (WH-10-2-76). The south shore west of Long. 65° 02' 30" was compared with a copy of the boat sheet for Survey H-9617 (WH-10-5-76). The south shore east of Long. 65° 02' 30" was compared with a copy of the verified smooth sheet for Survey H-9272 (WH-10-2-72). No significant differences were noted on any of these copies.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 25641, 1:100,000 scale, 14th edition, dated April 24, 1976. No significant differences were noted: The chart scale is too small for adequate comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 15, 1976

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

65° 03' 45"

SALT

03' 30"

18° 22'

Y = 195,000 Ft.

SALT 1918

Foul

SALT CAY

71L

21'30"

COMPARISON PRINT

Blue = T-3769
Brown = USGS

Foul

Kalkun Cay

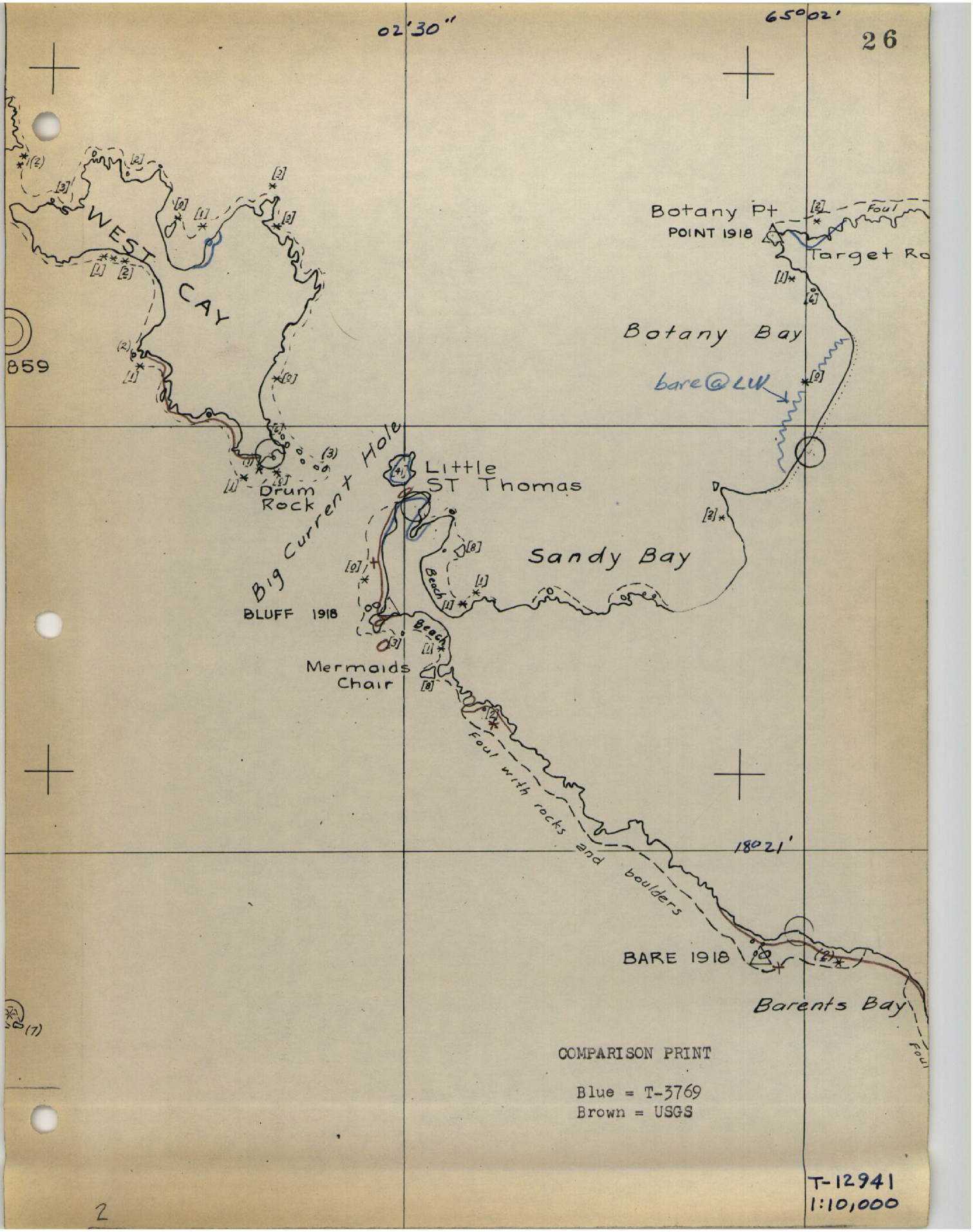
Y = 190,000 Ft

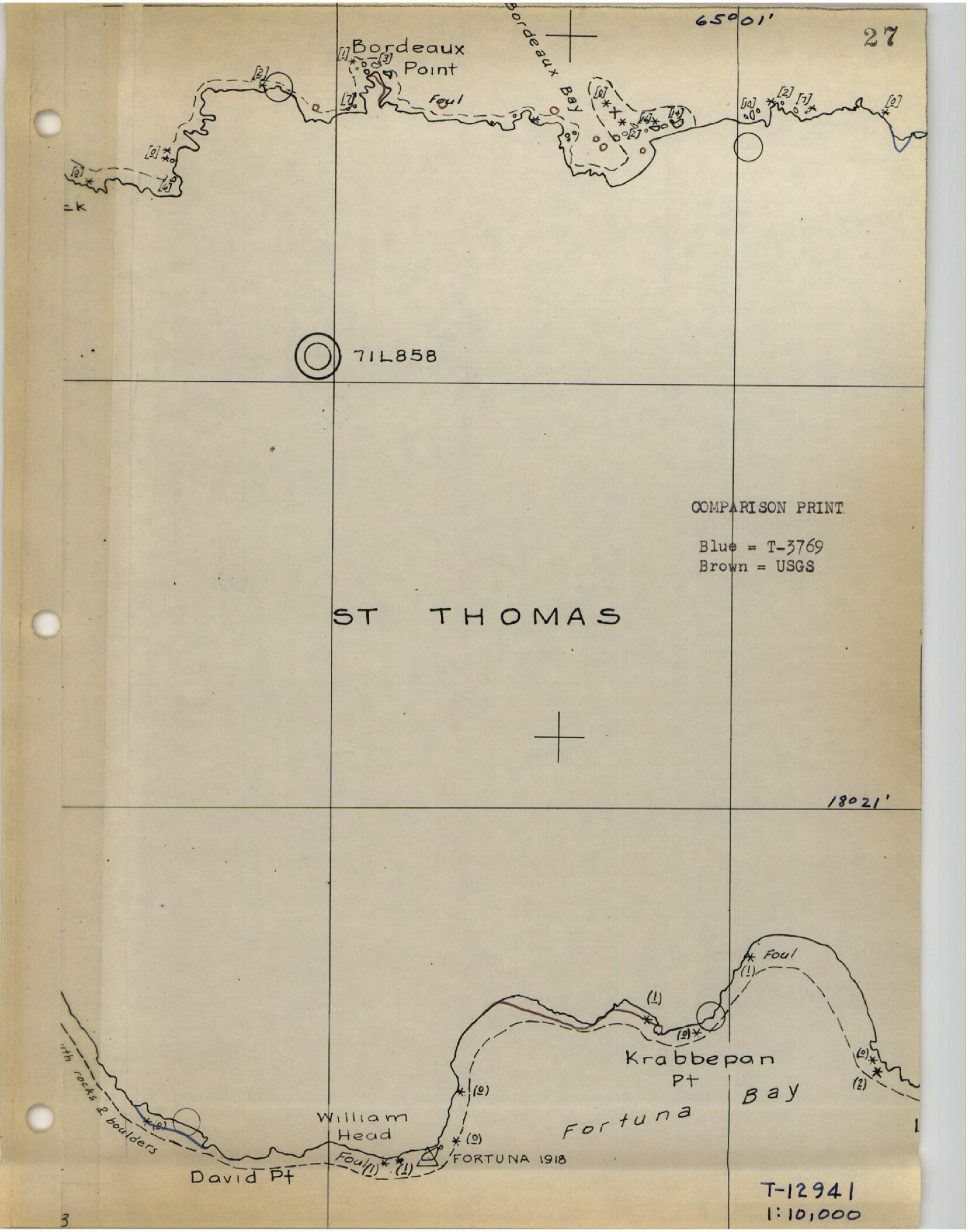
18° 21'

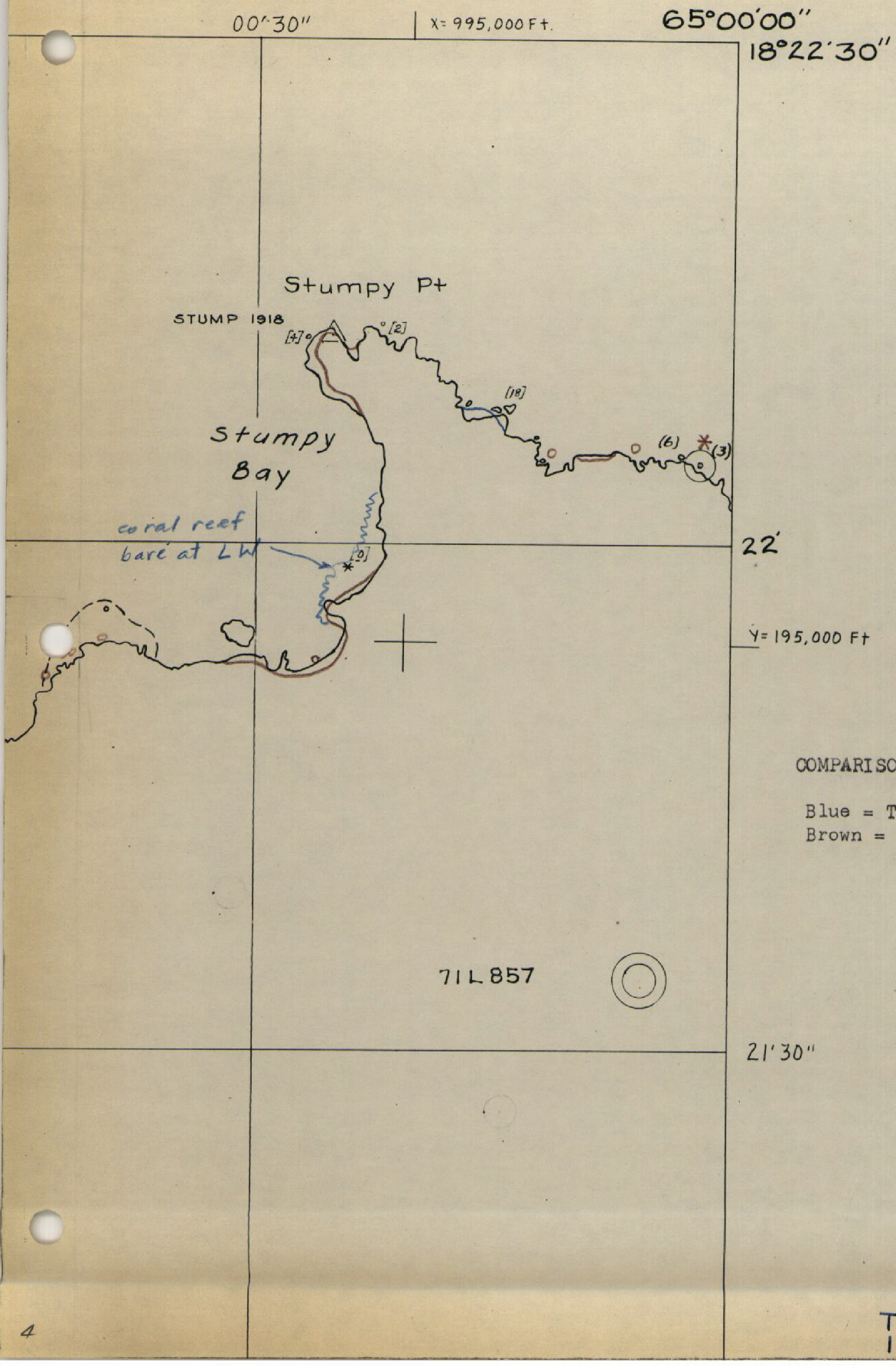
SALANA PASS

Saltwater Money Rock

T-12941
1:10,000


02'30"
65°02'
26
WEST CAY
859
Drum Rock
Big Current Hole
Little ST Thomas
Sandy Bay
Beach
BLUFF 1918
Mermaids Chair
Botany Pt
POINT 1918
Foul
Target Ro
Botany Bay
bare @ LW
Foul with rocks and boulders
18021'
BARE 1918
Barents Bay
COMPARISON PRINT
Blue = T-3769
Brown = USGS
T-12941
1:10,000
2


65°01'
27
Bordeaux Point
Foul
Bordeaux Bay
71L858
COMPARISON PRINT
Blue = T-3769
Brown = USGS
ST THOMAS
18°21'
Foul
Krabbepan Pt
Bay
Fortuna
William Head
FORTUNA 1918
David Pt
T-12941
1:10,000



COMPARISON PRINT

Blue = T-3769
Brown = USGS

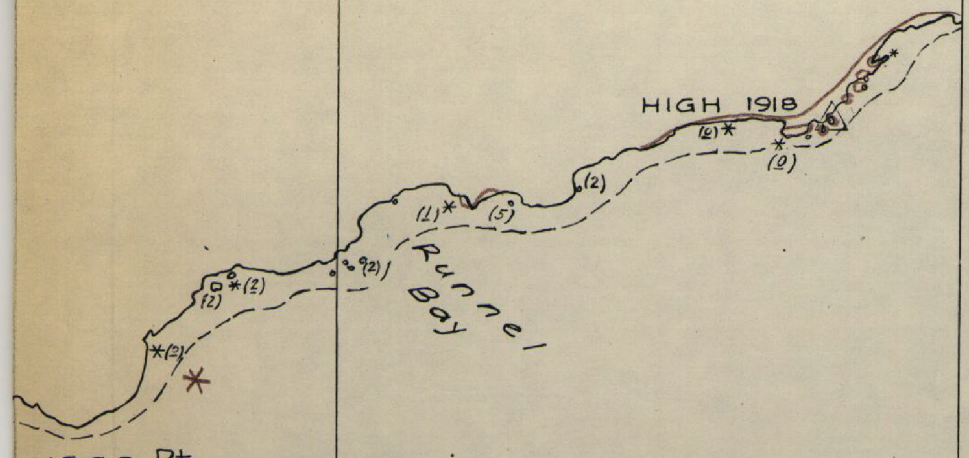
4

T-12941
1:10,000

65° 00'

Y=190,000 Ft

21'



COMPARISON PRINT

Brown = USGS

Lucas Pt

20' 30"

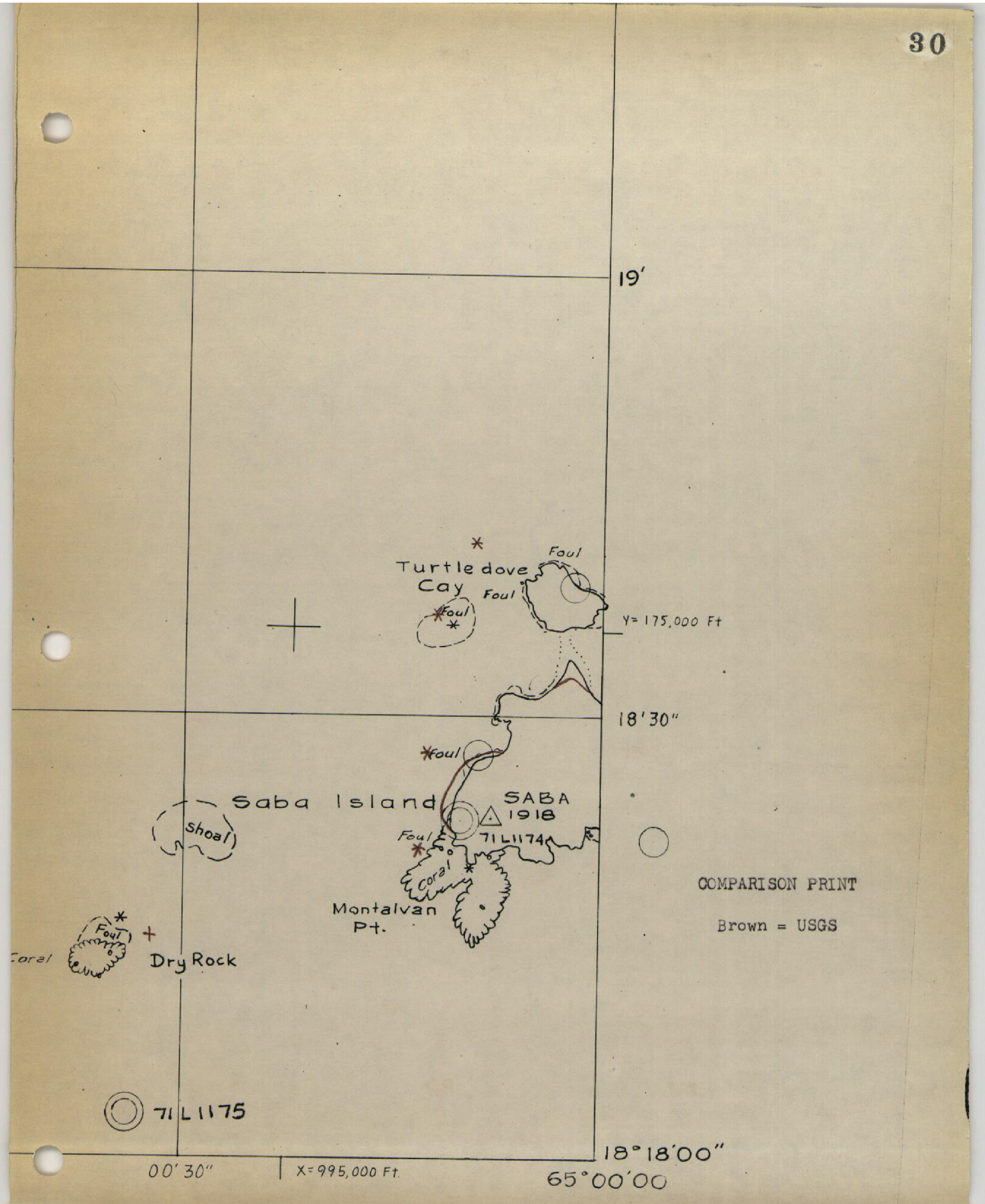
Y=185,000 Ft

IL835

18°20'

T-12941
1:10,000

5



6 NATIONAL OCEAN SURVEY

HORELINE MANUSCRIPT

41

T-12941

1:10,000

T-12941
National Archives Data

32 Discrepancy Prints (Field Edit Sheets)

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

Photography: 71-L(C) 860
71-L(C) 1213 thru 1215