<table>
<thead>
<tr>
<th><strong>NOAA FORM 76-35</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DEPARTMENT OF COMMERCE</td>
</tr>
<tr>
<td>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION</td>
</tr>
<tr>
<td>NATIONAL OCEAN SURVEY</td>
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**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th><strong>Type of Survey</strong></th>
<th>SHORELINE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Job No.</strong></td>
<td>PH-6504</td>
</tr>
<tr>
<td><strong>Map No.</strong></td>
<td>T-12939</td>
</tr>
<tr>
<td><strong>Classification No.</strong></td>
<td>Final</td>
</tr>
<tr>
<td><strong>Edition No.</strong></td>
<td>1</td>
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</table>

**FIELD EDITED MAP**

**LOCALITY**

<table>
<thead>
<tr>
<th><strong>State</strong></th>
<th>VIRGIN ISLANDS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Locality</strong></td>
<td>SAINT THOMAS</td>
</tr>
<tr>
<td><strong>Locality</strong></td>
<td>HANS JOLLIK ISLAND</td>
</tr>
</tbody>
</table>

**1971 TO 1975**

**REGISTRY IN ARCHIVES**

**DATE**
# 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

<table>
<thead>
<tr>
<th>TYPE OF SURVEY</th>
<th>SURVEY JOB</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORIGINAL</td>
<td>12939</td>
</tr>
<tr>
<td>REVISED</td>
<td></td>
</tr>
<tr>
<td>REVISION</td>
<td></td>
</tr>
</tbody>
</table>

## Job PH.

- PH. 6504

## Map Edition No.

- (1)

## Map Class

- Final (F.E.)

## Job Dates

- Nov 15, 1972 - Supplement I

## Instructions Dated

- Oct 18, 1971

## Datums

1. Horizontal:  
   - [ ] 1927 North American
   - [X] Mean High-Water
   - [ ] Mean Low-Water
   - [ ] Mean Lower-Low-Water
   - [ ] Mean Sea Level

2. Vertical:  
   - Other (Specify)

3. Map Projection
   - Lambert Conformal
   - Polyconic

## Grids

- State: Puerto Rico
- Zone: Virgin Islands Extension

## Scale

- 1:10,000

## History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>D. Norman</td>
<td>Jan 1974</td>
</tr>
<tr>
<td>METHOD: Analytic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LANDMARKS AND AIDS BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>D. Phillips</td>
<td>Jan 1972</td>
</tr>
<tr>
<td>METHOD: Coromat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLOTTED BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>J. Taylor</td>
<td>Aug 1974</td>
</tr>
<tr>
<td>COMPILATION</td>
<td></td>
<td></td>
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<tr>
<td>INSTRUMENT: B-8</td>
<td>G. Fromm</td>
<td>Aug 1974</td>
</tr>
<tr>
<td>SCALE: 1:10,000</td>
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<td></td>
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<tr>
<td>PLANIMETRY BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHECKED BY</td>
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<td></td>
</tr>
<tr>
<td>CONTOURS BY</td>
<td></td>
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</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT Delineation</td>
<td>J. Taylor</td>
<td>Aug 1974</td>
</tr>
<tr>
<td>METHOD: Inked</td>
<td>G. Fromm</td>
<td>Aug 1974</td>
</tr>
<tr>
<td>PLANIMETRY BY</td>
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<td>CONTOURS BY</td>
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<tr>
<td>CHECKED BY</td>
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<td>J. Taylor</td>
<td>Aug 1974</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>G. Fromm</td>
<td>Aug 1974</td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>J. P. Rattley</td>
<td>Sept 1974</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
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<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>R. R. White</td>
<td>Aug 1975</td>
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<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
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<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>C. H. Bishop</td>
<td>Nov 1975</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>C. H. Bishop</td>
<td>Oct 1976</td>
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<tr>
<td>CHECKED BY</td>
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<td></td>
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<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td>C. H. Bishop</td>
<td>Jan 1977</td>
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<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>E. L. Rolle</td>
<td>March 1977</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>R. J. Cathey</td>
<td>Mar 1977</td>
</tr>
</tbody>
</table>

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

**Camera(s):**
- Wild RC-8 "J" & RC-10 "Z"

**Tide Stage Reference:** San Juan Magens Bay
- Predicted Tides
- Reference Station Records
- Tide Controlled Photography

### Types of Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>71 L(C)-854-855</td>
<td>Nov 15, 71</td>
<td>9:18</td>
<td>1:30,000</td>
<td>1.3 ft. above MLW</td>
</tr>
<tr>
<td>71 L(C)-1155-1158</td>
<td>Nov 20, 71</td>
<td>12:04</td>
<td>1:10,000</td>
<td>1.5 ft. above MLW</td>
</tr>
<tr>
<td>74 Z(C)-7123-7129</td>
<td>Feb 12, 74</td>
<td>09:13</td>
<td>1:12,000</td>
<td>0.6 ft. above MLW</td>
</tr>
<tr>
<td>74 Z(C)-7139-7141</td>
<td>Feb 12, 74</td>
<td>09:18</td>
<td>1:12,000</td>
<td>Zone II B</td>
</tr>
<tr>
<td>74 Z(C)-7151-7152</td>
<td>Feb 12, 74</td>
<td>09:30</td>
<td>1:12,000</td>
<td>Zone II A</td>
</tr>
<tr>
<td>71 M(P)-973 &amp; 974</td>
<td>Nov 27, 71</td>
<td>10:45</td>
<td>1:60,000</td>
<td>0.4 ft. above MLW</td>
</tr>
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</table>

**Remarks:** (Bridging only) *Photobathymetry photography used to update MHWL compilation from 1971 photos. Stage of tide based on staff readings.

### Source of Mean High-Water Line:

Color photography listed above.

### Source of Mean Low-Water or Mean Lower Low-Water Line:

Not mapped

### Contemporary Hydrographic Surveys

(List only those surveys that are sources for photogrammetric survey information.)

### Final Junctions

- **North:** No contemporary survey
- **East:** No contemporary survey
- **South:** T-12944
- **West:** T-12942

**Remarks:** T-12943
T-12939
HISTORY OF FIELD OPERATIONS

1. FIELD INSPECTION OPERATION  
   OPERATION  
   NAME  
   DATE  
   1. CHIEF OF FIELD PARTY  
      M.J. Umbach  
      Dec, 1972  
   2. HORIZONTAL CONTROL  
      RECOVERED BY  
      V.E. Serena  
      Dec, 1972  
      ESTABLISHED BY  
      V.E. Serena  
      Dec, 1972  
      IDENTIFIED BY  
      NA  
   3. VERTICAL CONTROL  
      RECOVERED BY  
      NA  
      PRE-MARKED OR IDENTIFIED BY  
      NA  
      ESTABLISHED 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  
      COMPLETE  
      X SPECIFIC NAMES ONLY  
      X X 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  
   PHOTO NUMBER  
   STATION NAME  
   71M(C) 904  
   PELICAN, 1972

2. VERTICAL CONTROL IDENTIFIED

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

NA

5. GEOGRAPHIC NAMES:  
   REPORT  
   X NONE

6. BOUNDARY AND LIMITS:  
   REPORT  
   X NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

C.S.I. Card

NOAA FORM 76-35C  
U.S. GOVERNMENT PRINTING OFFICE: 1973--760874/1587  REGION NO. 6
## HISTORY OF FIELD OPERATIONS

### 1. FIELD INSPECTION OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>Robert S. Tibbetts</td>
<td>8/5/75</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>Robert S. Tibbetts</td>
<td>Feb. 1975</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>Robert S. Tibbetts</td>
<td>Feb. 1975</td>
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### 5. GEOGRAPHIC NAMES INVESTIGATION

<table>
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<tr>
<th>TYPE OF INVESTIGATION</th>
<th>COMPLETE</th>
<th>SPECIFIC NAMES ONLY</th>
<th>NO INVESTIGATION</th>
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### 6. PHOTO INSPECTION

<table>
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<tr>
<th>CLARIFICATION OF DETAILS</th>
<th>Robin D. Walls</th>
<th>Feb. 1975</th>
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### 7. BOUNDARIES AND LIMITS

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### 11. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
   - None

2. VERTICAL CONTROL IDENTIFIED
   - None

### 3. PHOTO NUMBERS

<table>
<thead>
<tr>
<th>CLARIFICATION OF DETAILS</th>
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</thead>
<tbody>
<tr>
<td>74 Z (C)7128; 74 Z (C)7141</td>
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</table>

### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

- None

### 5. GEOGRAPHIC NAMES

<table>
<thead>
<tr>
<th>REPORT</th>
<th>NONE</th>
<th>REPORT</th>
<th>NONE</th>
</tr>
</thead>
</table>

### 6. BOUNDARY AND LIMITS

- None

### 7. SUPPLEMENTAL MAPS AND PLANS

- None

### 8. OTHER FIELD RECORDS

- Discrepancy Print
- Field Edit Report
**NOAA FORM 76-36D**

**T-12939**

**RECORD OF SURVEY USE**

### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Date Manuscript Forwarded</th>
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<tbody>
<tr>
<td>Compilation complete</td>
<td>Dec, 1974</td>
<td>Class III manuscript</td>
<td>Dec, 1974</td>
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<tr>
<td>pending field edit</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>compilation complete</td>
<td></td>
<td>Class I Manuscript</td>
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</table>

### II. LANDMARKS AND AIDS TO NAVIGATION

1. **REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>CHART LETTER NUMBER</th>
<th>DATE</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>Dec, 1974</td>
<td>Form 76-40 for Landmark (1)</td>
</tr>
</tbody>
</table>

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. [X] BRIDGING PHOTOGRAPHS; [ ] DUPLICATE BRIDGING REPORTS; [ ] COMPUTER READOUTS.
2. [ ] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NO. 90-69 SUBMITTED BY FIELD PARTIES.
3. [X] SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.

### IV. SURVEY EDITIONS

- **SECOND EDITION**
  - SURVEY NUMBER: [ ]
  - JOB NUMBER: [2]
  - TP: ______________
  - PH: ______________
  - DATE OF PHOTOGRAPHY: ______________
  - DATE OF FIELD EDIT: ______________
  - TYPE OF SURVEY: [ ]
  - MAP CLASS: [ ]
  - REVISED: [ ]
  - RESURVEY: [ ]
  - FINAL: [ ]

- **THIRD EDITION**
  - SURVEY NUMBER: [ ]
  - JOB NUMBER: [3]
  - TP: ______________
  - PH: ______________
  - DATE OF PHOTOGRAPHY: ______________
  - DATE OF FIELD EDIT: ______________
  - TYPE OF SURVEY: [ ]
  - MAP CLASS: [ ]
  - REVISED: [ ]
  - RESURVEY: [ ]
  - FINAL: [ ]

- **FOURTH EDITION**
  - SURVEY NUMBER: [ ]
  - JOB NUMBER: [4]
  - TP: ______________
  - PH: ______________
  - DATE OF PHOTOGRAPHY: ______________
  - DATE OF FIELD EDIT: ______________
  - TYPE OF SURVEY: [ ]
  - MAP CLASS: [ ]
  - REVISED: [ ]
  - RESURVEY: [ ]
  - FINAL: [ ]
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 finalized 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 FH-6504. The maps were designated by the same numbers as FH-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 remarking 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 U-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-968 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
Don O. Norman, Cartographer
James E. Schad, Cartographer

Approved and Forwarded:

John D. Perrow, Jr.
Acting Chief
Aerotriangulation Section

*See Addendum to this report on pages 13/14
Fit to Control
(x, y) feet

△ held in adjustment

**STRIPE #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)

**STRIPE #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)

**STRIPE #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)

**STRIPE #4**

△ 35801 (-0.2, 0.0)
   35802 (-5.7, +2.0)
   56801 (-3.8, -0.5)
   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)

**STRIPE #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

\[ \begin{align*}
\Delta & 1 \text{ No. 97 (cadastral survey) - sub station } (0.0 \ 0.0) \\
\Delta & 8 \text{ BAKE, 1918 sub station } (0.0 \ 0.0) \\
\Delta & 9 \text{ MOORE, 1918 sub station } (0.0 \ 0.0) \\
\end{align*} \]

STRIP #7

\[ \begin{align*}
\Box & 30801 \quad (0.0 \ +2.7) \\
\Box & 33802 \quad (+0.8 \ +1.0) \\
\Box & 33801 \quad (-1.7 \ +0.4) \\
\Box & 36801 \quad (-2.5 \ +0.9) \\
\Box & 36802 \quad (-1.6 \ +2.2) \\
\Delta & 9 \text{ MOORE, 1918 sub station } (+2.3 \ -2.3) \\
\end{align*} \]

STRIP #8

\[ \begin{align*}
\Box & 79801 \quad (-0.0 \ 0.0) \\
\Box & 79802 \quad (-2.5 \ -0.2) \\
\Box & 79803 \quad (+2.3 \ 0.0) \\
\Box & 81801 \quad (0.0 \ 0.0) \\
\Box & 82801 \quad (+2.1 \ -0.8) \\
\Box & 84801 \quad (8 \text{ BAKE, 1918 sub station } (+3.8 \ -1.7) \\
\Box & 84802 \quad (-5.1 \ -1.7) \\
\Box & 84803 \quad (0.0 \ 0.0) \\
\Box & 84803 \quad (-1.6 \ -2.1) \\
\end{align*} \]

STRIP #9

\[ \begin{align*}
\Box & 6801 \quad (0.0 \ 0.0) \\
\Box & 6802 \quad (+1.8 \ +0.4) \\
\Box & 7801 \quad (-0.7 \ -0.1) \\
\Box & 27801 \quad (-0.2 \ +2.3) \\
\Box & 9801 \quad (-1.8 \ -0.9) \\
\Delta & 1 \text{ No. 97 (cadastral survey) - sub station } (0.0 \ 0.0) \\
\Box & 10801 \quad (-1.5 \ +0.9) \\
\Box & 10802 \quad (+0.4 \ +0.3) \\
\Box & 21801 \quad (0.0 \ 0.0) \\
\end{align*} \]

STRIP #10

\[ \begin{align*}
\Box & 25801 \quad (0.0 \ 0.0) \\
\Box & 25802 \quad (-0.1 \ +4.5) \\
\Box & 27801 \quad (0.0 \ 0.0) \\
\Box & 41802 \quad (+2.7 \ +0.3) \\
\Delta & 1 \text{ No. 97 (cadastral survey) - sub station } (0.0 \ 0.0) \\
\end{align*} \]
ADDENDUM
PHOTOGRAMMETRIC PLOT REPORT
VIRGIN ISLANDS
PH-6504
January 1974

A horizontal control station and three subpoints were established on Pelican Cay just north of Little Hans Lollik Island.

A three-photo strip (71M 964-966) of 1:60,000 scale photography was bridged and adjusted to ground. Points were dropped from this strip to control a 1:10,000 scale strip which was also bridged and adjusted to ground control. Points on the 1:10,000 scale strip were plotted by the Coradomat for compilation.

Respectfully submitted,
Don O. Norman

Approved and forwarded:

John D. Ferrow, Jr.
AEROTRIANGULATION SKETCH
SHEET T-12939
VIRGIN ISLANDS
JAN. 1974
PH-6504

0:1:60000 panchromatic
0:1:10000 color
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
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<tr>
<td>HANS, 1918</td>
<td>P.C. P.29</td>
<td>57100</td>
<td>vidence Puerto Rico</td>
<td>(x = 1 \ 029 \ 153.73) (\phi)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(y = 204 \ 069.41) (\lambda)</td>
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<tr>
<td>LOLLIK, 1918</td>
<td>P.C. P.22</td>
<td>56100</td>
<td>evidence Puerto Rico</td>
<td>(x = 1 \ 028 \ 971.67) (\phi)</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<td>(y = 208 \ 026.33) (\lambda)</td>
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<tr>
<td>WEST, 1918</td>
<td>P.C. P.31</td>
<td></td>
<td></td>
<td>(x = 1 \ 039 \ 824.56) (\phi)</td>
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<tr>
<td></td>
<td>Estab. by field per Inst.11/15/72</td>
<td>64100</td>
<td></td>
<td>(y = 194 \ 521.45) (\lambda)</td>
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<tr>
<td>PELICAN, 1972</td>
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<td></td>
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<td>(x = 1 \ 028 \ 235.21) (\phi)</td>
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<tr>
<td></td>
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<td>(y = 213 \ 951.53) (\lambda)</td>
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<tr>
<td>SUB. PT. 1</td>
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<td>(x = 1 \ 028 \ 072.84) (\phi)</td>
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<td>(y = 213 \ 963.57) (\lambda)</td>
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<tr>
<td>SUB. PT. 3</td>
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<td>64103</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>(y = 213 \ 803.16) (\lambda)</td>
</tr>
</tbody>
</table>

COMPUTED BY: J. H. Taylor DATE: 8/29/74

COMPUTATION CHECKED BY: J. Fromm DATE: 8/29/74

LISTED BY: C. H. Bishop DATE: 11/20/75

LISTING CHECKED BY: Charles H. Bishop DATE: 11/20/75

HAND PLOTTING CHECKED BY: DATE:

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT
T-12939

31. **DELINEATION:**

   This manuscript was delineated with the Wild B-8 stereoplotter, using 1:10,000 scale color photography, except for the portion of ST. THOMAS ISLAND on the southwest corner of the manuscript which was delineated from a 1971 worksheet for T-12943 to the south.

   The most northern tip of PELICAN CAY could not be delineated in stereo and was graphically delineated from the hydro support photos, holding to pass points dropped by the B-8.

   HANS LOLLIK ROCK was also delineated graphically from the hydro support photos.

32. **CONTROL:**

   The horizontal and vertical control was adequate with reference to identification, density and placement. Refer to Photogrammetric Plot Report dated August, 1972, bound with this Description Report.

33. **SUPPLEMENTAL DATA:**

   None.

34. **CONTOURS AND DRAINAGE:**

   Inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS:**

   Because of surf conditions, some rocks may have been missed. The proximity of these rocks to the shoreline puts them out of the hazardous category.

36. **OFFSHORE DETAILS:**

   None, except HANS LOLLIK ROCK. See Paragraph 31.
37. **LANDMARKS AND AIDS:**

None.

38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

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

40. **HORIZONTAL AND VERTICAL CONTROL ACCURACY:**

No statement.

41-45.

Not used.

46. **COMPARISON WITH EXISTING MAPS:**

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

47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with Chart 905, scale of 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,

J. H. Taylor
Cartographer

Approved:

Jeter P. Battley, Jr.

Jeter P. Battley, Jr.
Chief, Coastal Mapping Section, Rockville
ADDENDUM TO COMPILATION REPORT

T-12939

One landmark was selected by the field editor in 1975 and added to the manuscript when field edit was applied.

Charles H. Bishop
Charles H. Bishop
Final reviewer
October 19, 1976
September 13, 1976

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6504 St. Thomas-St. John, Virgin Islands
T-12939

Atlantic Ocean
Coconut Bay
Hans Lollik Island
Hans Lollik Rock
Lee Point
Leeward Passage
Lerkenlund Bay
Little Hans Lollik Island
Lovenlund Bay
Magens Bay
Mandal Bay
Mandal Point
Pelican Cay
St. Thomas
White Horseface Reef
Thatch Cay

Approved
Chas. E. Harrington
Staff Geographer - C51x2
# PHOTOMGRAMMETRIC OFFICE REVIEW

<table>
<thead>
<tr>
<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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<tr>
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## CONTROL STATIONS

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<tr>
<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<tr>
<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<tbody>
<tr>
<td>NA</td>
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## ALONGSHORE AREAS (Nautical Chart Data)

<table>
<thead>
<tr>
<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
<th>15. BRIDGES</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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## PHYSICAL FEATURES

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<thead>
<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLATETABLE CONTOURS</th>
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<tr>
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<table>
<thead>
<tr>
<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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<tr>
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## CULTURAL FEATURES

<table>
<thead>
<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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<tbody>
<tr>
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## BOUNDARIES

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<thead>
<tr>
<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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## MISCELLANEOUS

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<tr>
<th>32. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<table>
<thead>
<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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</thead>
<tbody>
<tr>
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<td>CHB</td>
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## REVIEWER

<table>
<thead>
<tr>
<th>Charles M. Bishop</th>
<th>11/21/75</th>
</tr>
</thead>
</table>

## SUPERVISOR

<table>
<thead>
<tr>
<th>Joseph W. Vonasek</th>
</tr>
</thead>
</table>

### 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

<table>
<thead>
<tr>
<th>Charles M. Bishop</th>
</tr>
</thead>
</table>

### SUPERVISOR

<table>
<thead>
<tr>
<th>Joseph W. Vonasek</th>
</tr>
</thead>
</table>

### REMARKS

See Form 76-36C
51. METHODS

Field edit was concerned with rock heights and rock configuration. Most of the edit was done from a boat but the roads were inspected by car on Picara Point.

52. ADEQUACY OF COMPILATION

Adequate after application of field edit information. The Micro Wave tower on Picara Point has been located previously. The position has been computed in the field in 1975 and is: Lat. 18 22' 34".096 and Long. 64 55' 43".099.

The tower is a landmark not because of its height but because of its position on the ridge leading to Picara Point.

The bluffs along the Leeward Passage on St. Thomas are the most significant feature from the water.

The cable crossing in Magens Bay are indicated on separate photographs in the interest of clarity.

Hans Lollik Rock may bare but only because of heavy swell. Two observations on different days indicated the rocks were awash.

53. MAP ACCURACY

Not checked by field editors.

54. RECOMMENDATIONS

None.

Robert S. Tibbetts
Chief, Photo Party 62
Non-Floating Aids or Landmarks for Charts

<table>
<thead>
<tr>
<th>QPR Project No.</th>
<th>Job Number</th>
<th>Survey Number</th>
<th>Datum</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Method and Date of Location</th>
<th>Charts Affected</th>
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<tbody>
<tr>
<td>423</td>
<td>PH-6504</td>
<td>T-12939</td>
<td>Puerto Rico</td>
<td>TOWER</td>
<td>Microwave Tower</td>
<td>34.096</td>
<td>43.099</td>
<td>71L(C) 854</td>
<td>F-3-6-L</td>
</tr>
</tbody>
</table>

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

(See reverse for responsible personnel)
REVIEW REPORT T-12939
SHORELINE
October 19, 1976

61. GENERAL STATEMENT:

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

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a 1:20,000 scale copy of Survey T-3771, 1:10,000 scale, dated May - October, 1918. The copy was distorted, making detailed comparison impractical. Considering the method of the old survey, the two maps compare well.

In the area compared, T-12939 supersedes T-3771 for nautical chart construction purposes. T-3771 is the latest registered survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. Quadrangles CENTRAL ST. THOMAS, V. I., 1:24,000 scale, dated 1955 and EASTERN ST. THOMAS, V. I., 1:24,000 scale, dated 1954. Considering the difference in scale, these maps compared well with T-12939. Significant differences are shown on the comparison print in brown.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the Preliminary Sounding Overlay for Survey H-9514 (WH-10-2-75). No significant differences were noted.

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 scale is too small for adequate comparison.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted:

Charles H. Bishop
Charles H. Bishop
Cartographer
Cartographer
October 19, 1976

Approved for forwarding:

Joseph W. Vonasek
Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC
Chief, Photogrammetric Branch

Approved:

Chief, Photogrammetric Branch

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
NATIONAL OCEAN SURVEY
SHORELINE MANUSCRIPT
T-12939
VIRGIN ISLANDS
ST. THOMAS
HANS LOLLIK ISLAND
SCALE 1:10,000
(1 inch = 833.33 ft)
CONTROL DATA
Polyconic projection, Puerto Rican Datum
5,000 foot grid based on Puerto Rico plane coordinate system -
Virgin island extension
datum plane: Mean High Water
T-12939
National Archives Data

1 Discrepancy Print (Field Edit Sheet)
1 Form C&GS-152 (Control Station Identification)

Photography: 71-M(C) 904
             74-Z(C) 7128 & 7141