

TP 01129

TP-01129

NOAA FORM 76-35 (6-80)		
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY		
<b>DESCRIPTIVE REPORT</b>		
This Map Will Not Be Field Edited.		
<i>Map No.</i> TP-01129	<i>Edition No.</i> 1	
<i>Job No.</i> CM-8105		
<i>Map Classification</i> III		
<i>Type of Survey</i> Shoreline/Photobathymetry		
<b>LOCALITY</b>		
<i>State</i> Saint John, Virgin Islands		
<i>General Locality</i> Southern Coast		
<i>Locality</i> Lagoon Point to Reef Bay		
<table border="1"><tr><td>19 83 TO 19</td></tr></table>		19 83 TO 19
19 83 TO 19		
<b>REGISTERED IN ARCHIVES</b>		
<b>DATE</b>		

DESCRIPTIVE REPORT

TP-01129

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NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.  <h3 style="text-align: center;">DESCRIPTIVE REPORT - DATA RECORD</h3>		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP- <u>01129</u>  MAP EDITION NO. (1) MAP CLASS III JOB <u>PH. CM-8105</u>																																																	
PHOTOGRAMMETRIC OFFICE  Photogrammetry Branch, Rockville, MD  OFFICER-IN-CHARGE  Mr. Ronald K. Brewer		<h4 style="text-align: center;">LAST PRECEDING MAP EDITION</h4> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">           TYPE OF SURVEY  <input type="checkbox"/> ORIGINAL  <input type="checkbox"/> RESURVEY  <input type="checkbox"/> REVISED         </td> <td style="width:50%;">           JOB PH- _____            MAP CLASS _____            SURVEY DATES:            19__ TO 19__         </td> </tr> </table>		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH- _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__																																															
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NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## COMPILATION SOURCES

TP-01129

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(B); CFL=152.74mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE COORDINATED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (R) INFRARED		ZONE Atlantic	
				MERIDIAN 60th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83B(C)2188,2190,2192, 2193	3/25/83	1708-1710	1:15,000	+0.76 FT MLW*	
83B(C)2258,2260,2262, 2264	3/25/83	1737-1740	1:15,000	+0.64 FT MLW**	
83B(R)2365-2370 (inclusive)	4/12/83	1559-1601	1:15,000	+0.2 FT MLW	

REMARKS Stage of tide is based on permanent tide gage at Charlette Amalitte, St. Thomas with substations at Coral Harbor(\*) and Lameshur Bay(\*\*).

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The color photographs listed above.

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

Not applicable.

## 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
TP-01128	TP-01130	N/A	N/A

REMARKS

HISTORY OF FIELD OPERATIONS

TP-01129

I.  FIELD ~~INSPECTION~~ OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C.S. Middleton, Jr.	3/83
2. HORIZONTAL CONTROL	RECOVERED BY Coastal Party 2	3/83
	ESTABLISHED BY Coastal Party 2	3/83
	PRE-MARKED OR IDENTIFIED BY Coastal Party 2	3/83
3. VERTICAL CONTROL	RECOVERED BY N/A	
	ESTABLISHED BY Coastal Party 2	3/83
	PRE-MARKED OR IDENTIFIED BY Coastal Party 2	3/83
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A	
	LOCATED (Field Methods) BY N/A	
	IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE	
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N/A
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Premarked		2. VERTICAL CONTROL IDENTIFIED Premarked	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
83B(C)2260	Horiz. Panel #7	83B(C)2264	Vert. Panel #17
83B(C)2256	Horiz. Panel #8	83B(C)2260	Vert. Panel #18
83B(C)2254	50438 EXTRA	83B(C)2258	Vert. Panel #19
		83B(C)2256	Vert. Panel #20
		83B(C)2256	Vert. Panel #21
		83B(C)2190	Vert. Panel #21A
		83B(C)2254	Vert. Panel #22
		83B(C)2260	Vert. Panel 975-1381 EXTRA
3. PHOTO NUMBERS (Clarification of details)			
N/A			

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)

Refer to listing "Index to Project Data and Material on File", which is bound with this Descriptive Report, for information on this subject.

HISTORY OF FIELD OPERATIONS

TP-01129

I.  FIELD INSPECTION OPERATION  FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C.S, Middleton, Jr,	12/83
2. HORIZONTAL CONTROL	RECOVERED BY	N/A
	ESTABLISHED BY	N/A
	PRE-MARKED OR IDENTIFIED BY	N/A
3. VERTICAL CONTROL	RECOVERED BY	Coastal Party 2
	ESTABLISHED BY	N/A
	PRE-MARKED OR IDENTIFIED BY	Coastal Party 2
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	N/A
	LOCATED (Field Methods) BY	N/A
	IDENTIFIED BY	N/A
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE	N/A
	<input type="checkbox"/> SPECIFIC NAMES ONLY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N/A
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None	2. VERTICAL CONTROL IDENTIFIED Photoidentified
--	---

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
		83B(C)2262	Vert. Panel #17

3. PHOTO NUMBERS (Clarification of details)  
N/A

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)

Refer to listing "Index to Project Data and Material on File", which is bound with this Descriptive Report, for information on this subject.

RECORD OF SURVEY USE

TP-01129

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Class III Map		Chart Maintenance Print	1/28/87	
Final Reviewed Class III Map		Notes to Hydrographer Print		1/28/87
Photobathymetric Data Overlay		Chart Maintenance Print	1/28/87	
Photobathymetric Data Overlay		Notes to Hydrographer Print		1/28/87

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
	None		

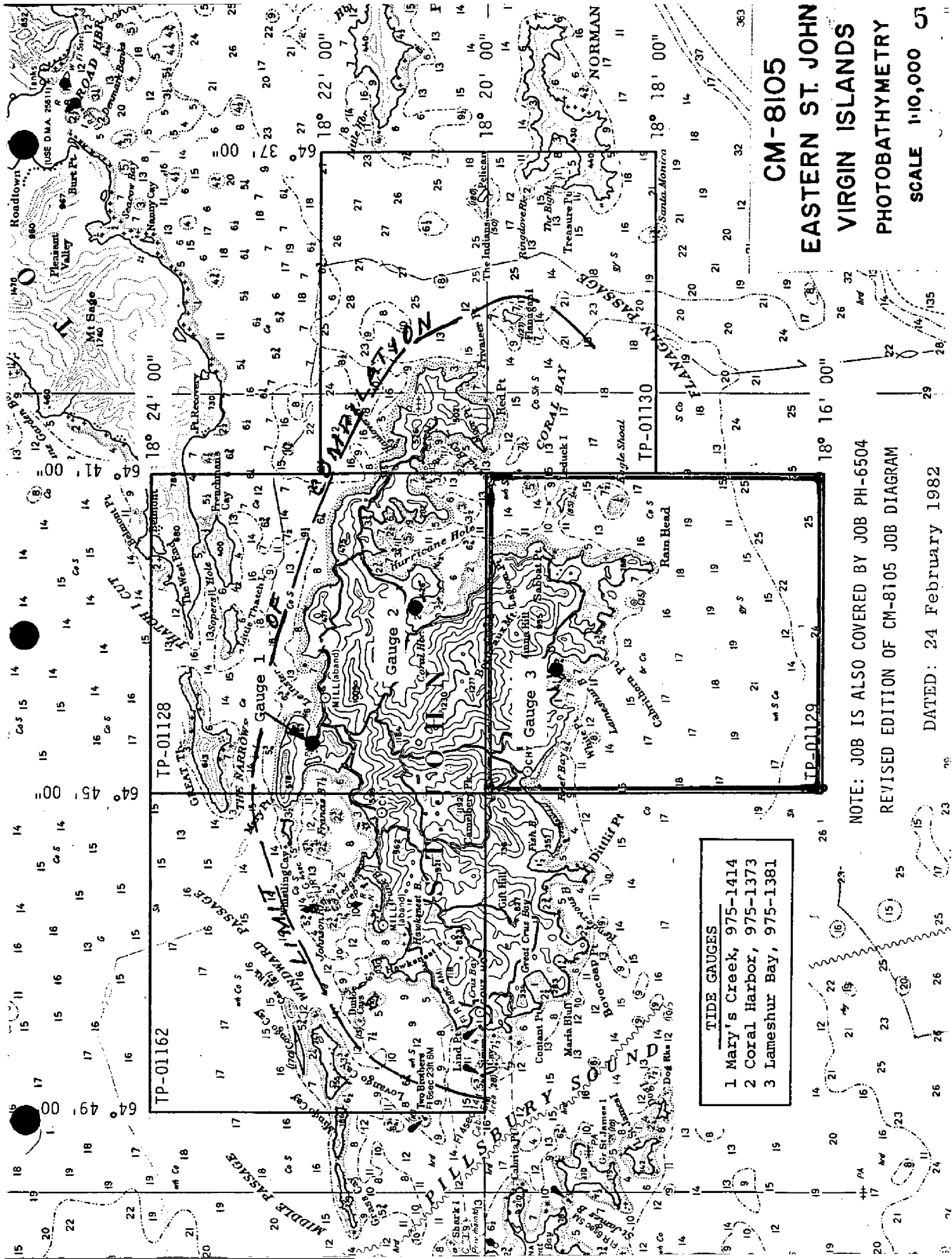
2.  REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: N/A
3.  REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: N/A

III. FEDERAL RECORDS CENTER DATA

1.  BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.
2.  CONTROL STATION IDENTIFICATION CARDS;  FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3.  SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:
4.  DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	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	



- TIDE GAUGES**
- 1 Mary's Creek, 975-1414
  - 2 Coral Harbor, 975-1373
  - 3 Lameshur Bay, 975-1381

**CM-8105**  
**EASTERN ST. JOHN**  
**VIRGIN ISLANDS**  
**PHOTOBATHYMETRY**  
**SCALE 1:10,000**

NOTE: JOB IS ALSO COVERED BY JOB PH-6504  
 REVISED EDITION OF CM-8105 JOB DIAGRAM

DATED: 24 February 1982



## SUMMARY

Project CM-8105 was planned to consist of four 1:10,000 scale shoreline maps with accompanying photobathymetric data overlays. The map numbers assigned for this project are TP-01162, TP-01128, TP-01129 and TP-01130. The photogrammetric survey depicts the shoreline and other cartographic features of mapping interest located along the coast of St. John Island except for the southwestern coast from Stevens Cay to Reef Bay. Photobathymetry was cancelled for the entire west and north coast. Photobathymetry was conducted for the southeastern and southern coast, which includes Reef Bay easterly to Privateer Point.

The purpose of the project is to provide contemporary shoreline and photobathymetric data for the maintenance of the nautical charting program and to supplement future hydrographic surveys.

Field operations consisted of aerial photography, tidal observations, and the recovery, establishment and identification (premarking) of horizontal and vertical control necessary for aerotriangulation. A field inspection of the shoreline was not performed. Natural color photographs required for aerotriangulation and compilation were taken with a Wild RC-10(B) camera at 1:15,000 scale. In addition, support color photographs at 1:30,000 scale were secured using a Wild RC-10(B) camera, to provide for the general field identification of premarked horizontal and vertical control points required for aerotriangulation and compilation. Supplemental tide-coordinated infrared photographs for Mean Low Water were also obtained at 1:15,000 scale to complement the establishment of tidal datums/vertical control required for compilation.

Five strips of 1:15,000 scale natural color photographs were bridged using analytic aerotriangulation methods. Horizontal and vertical control points used were field identified (premarked). Aerotriangulated control proved adequate and meets the requirements of the National Standards of Map Accuracy.

Compilation was performed in the Coastal Mapping Unit, Rockville office. Delineation was accomplished using a Wild B-8S stereoplotter through application of standard shoreline mapping techniques. Delineation was based on an office interpretation of the natural color bridged photographs. All line work on the base map was smooth drafted. Photobathymetric discrete point data was measured and recorded digitally via an Altek Unit with tape transport interfaced with the Wild B-8S. The digital data was processed off-line utilizing programs which adjust the resultant data for refraction, earth curvature and tide corrections. A negative of the final reviewed discrete point data for each map was scribed utilizing a Calcomp automated plotter. Isobaths were compiled at 6 foot (1 fathom) intervals and were hand scribed on the discrete depth scribe for each map. Positives were generated from the photobathymetric data scribe for registration and data dissemination purposes. The photobathymetric discrete point digital data is stored in the Photogrammetric Electronic Data Library (PEDL) and is available for dissemination to approved users.

Final review was performed in the Coastal Mapping Unit, Rockville Office. The base maps, data overlays and associated discrete point data of this project meet the requirements of the National Standards of Map Accuracy. The base maps, data overlays and reports also comply with project instructions. The project digital photobathymetric data comply with the Nautical Charting Division (NCD) standards for digital source data structured in NCD Format 13. NCD Format 13 is structured for geographic positions and associated attributes for each data record.

The Descriptive Report prepared for each map contains all the information pertinent to the completion of each map.

CM-8105  
 EASTERN ST. JOHN  
 VIRGIN ISLANDS  
 PHOTOBATHYMETRY

HORIZONTAL AND VERTICAL PREMARKING REPORT

Premarking for this project was performed during Feb. - March 1983 as specified in Project Instructions dated March 9, 1983. Array No. 1 for 1:15,000 scale photography was used to premark horizontal control and Array No. 2 for 1:15,000 scale photography was used for Vertical Control Points.

Project Instructions specified that three tide stations be installed prior to photography. This task was accomplished with the aid of the Atlantic Marine Center Tides and Water Levels Branch.

Preliminary Mean Low Water Datum was established at each tide staff by connecting levels to existing Tidal Bench Marks in the vicinity and checks were obtained wherever possible. The most questionable elevation was 975-1414, Mary Creek, where a questionable check was obtained and original descriptive data was vague. Acceptable checks were obtained at 975-1373, Coral Harbor, and 975-1381, Lameshure Bay, however, it should be noted that the datums for these bench marks were determined from relatively few tide observations. These conditions affect the elevations of all vertical panels with the exceptions of Vertical #14 and Vertical #15 which were determined by levels from bench marks of other tide stations. The Project Instructions specified Mean Low Water Datums which were not furnished to the field party. All elevations given herein are referenced to Mean Low Water. For the reasons noted above, these elevations should be used with caution and preferably after verification can be obtained from the reduction of the tidal data being collected at these tide stations. The controlling tide gage at Charlotte Amalie, St. Thomas was replaced prior to and was operational during the time of the project.

Horizontal Control

Horizontal Panel #1 is a non-standard Array No. 1 placed direct on Horizontal Control Station WHISTLE 1918. This panel also serves as Vertical Panel #1.

Horizontal Panel #2 is a non-standard Array No. 1 placed direct on Horizontal Control Station BAT 1918.

Horizontal Panel #3 is a non-standard Array No. 1 placed direct on horizontal Control Station PRIVATEER 2 1983 which was located by Third Order Traverse from FLANNAGAN 1918.

Horizontal Panel #4 is a non-standard Array No. 1 placed direct on Horizontal Control Station FLANNAGAN 1918.

Horizontal Panel #5 is a non-standard Array No. 1 placed direct on Horizontal Control Station LIND 1918 RESET 1983.

Horizontal Panel #6 is a standard Array No. 1 which is placed on a hub which was located by solar azimuth and EDM distance from DIT 1918. Also serves as Vertical #16A.

Horizontal Panel #7 is a standard Array No. 1 which is set on a hub which was located by angle and taped distance from LAM 1983 which was located by reverse solar and EDM distance from BRITE 1918. Also serves as Vertical #18.

Horizontal Panel #8 is a non-standard Array No. 1 which is placed direct on Horizontal Control Station NANNY 1918.

Horizontal Panel #9 is a non-standard Array No. 1 which is placed direct on Horizontal Control Station PERKINS 1918. The panel also serves as Vertical Panel #5.

Triangulation Station MOOR 1918 is an extra Horizontal Control Point. It is a non-standard Array No. 1 placed direct on the Triangulation Station.

Horizontal Control Doppler Station 50438 is an extra Horizontal Control Point. Station 50438 1982 was paneled direct with an "X" as shown on the CSI Card.

Vertical Panel #8 Doppler Station 50439 is an extra Horizontal Control Point. Station 50439 1982 was paneled direct with a non-standard Array No. 2.

#### Vertical Control

Vertical Panel #1 is a non-standard Array No. 1 placed direct on Horizontal Control Station WHISTLE 1918. The panel also serves as Horizontal Panel #1. ELEV of Panel above MLW=8.36 ft. determined by Water Transfer from 975-1414.

Vertical Panel #2 is a standard Array No. 2 in the vicinity of Francis Bay. Its Elevation is 1.49 ft. above MLW and was determined by levels from Bench Mark 1414 B 1983.

Vertical Panel #3 is a standard Array No. 2 in the vicinity of the Southeast end of Mary Creek. Its Elevation is 2.34 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical Panel #4 is a non-standard Array No. 2 located near the Northwest end of Coral Harbor. Its Elevation is 7.59 ft. above MLW and was determined by levels from Bench Mark NO 3 1924.

Vertical Panel #4A is a non-standard Array No. 2 located on the South shore of the town of Coral Bay. It is placed direct on Bench Mark NO 2 1924. Its Elevation above MLW is 2.82 ft.

Vertical Panel #5 is a standard Array No. 2 located near the Southeast end of Waterlemon Bay. Its Elevation is 1.87 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical Panel #6 is a non-standard Array No. 2 located on the West shore of Hurricane Hole. Its Elevation is 5.54 ft. above MLW and was determined by Water Level Transfer from 975-1373.

Vertical Panel #7 is a non-standard Array No. 2 located near the Northwest limit of the East End District. Its Elevation is 4.69 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical Panel #8 is a non-standard Array No. 2 which is placed direct on NGS Doppler Station 50439 1982 on the North shore of Haulover. Its Elevation is 8.57 ft. above MLW and was determined by Water Level Transfer from 975-1373.

Vertical #9 is the Northernmost corner of a concrete dock just Northeast of Long Point. Its Elevation is 2.75 ft. above MLW and was determined by Water Level Transfer from 975-1373.

Vertical Panel #10 is a non-standard Array No. 2 located just East of Newfound Bay. Its Elevation is 4.75 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical Panel #11 is a non-standard Array No. 2 located on a rocky shore of a small cove at the North shore of Privateer Bay. Its Elevation is 7.86 ft. above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #12 is a non-standard Array No. 2 located on the West side of Flannagan Island. Its Elevation is 6.43 ft. above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #13 is a non-standard Array No. 2 located on the West shore of Johnson Bay. Its Elevation is 5.06 ft. above MLW and was determined by Water Level Transfer from 975-1373.

Vertical Panel #13A is a non-standard Array No. 2 located on the West side of Coral Harbor. Its Elevation is 4.29 ft. above MLW and was determined by Water Level Transfer from 975-1373.

Vertical #14 is the surface of the Southeast corner of the concrete pier in Caneel Bay. Its Elevation is 4.23 ft. above MLW and was determined by levels from Tidal Bench Marks in the area.

Vertical Panel #15 is a non-standard Array No. 2 located at the National Park Service dock in Cruz Bay. Its Elevation is 3.51 ft. above MLW and was determined by levels from Tidal Bench Marks in the area.

Vertical Panel #16 is a non-standard Array No. 2 which is located in the East-Central portion of a peninsula owning Dittlif Point. Its Elevation is 10.33 ft. above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #16A is also Horizontal Panel #6 and is a standard Array No. 1 located on a small hill North of Dittlif Point. Its Elevation is 48.75 ft. and was determined by levels from Vertical Panel #16.

Vertical Panel #17 is a non-standard Array No. 2 located on the East shore of Genti Bay. Its Elevation is 6.12 ft. above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #18 is also Horizontal Panel #7 and is a standard Array No. 1 located on the Northwest shore of Little Lameshur Bay. Its Elevation is 13.20 ft. above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #19 is a standard Array No. 2 located at the North end of Kiddel Bay. Its Elevation is 9.19 ft above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #20 is a standard Array No. 2 located on the West shore of a peninsula owning Ram Head. Its Elevation is 9.63 ft. above MLW and was determined by Water Level Transfer from 975-1381.

Vertical Panel #21 is a non-standard Array No. 2 located on the North shore of the peninsula West of Nanny Point. Its Elevation is 7.52 ft. and was determined by Water Level Transfer from 975-1373.

Vertical Panel #21A is a non-standard Array No. 2 located on the North side of Sabbat Point. Its Elevation is 9.41 ft. above MLW and was determined by Water Level Transfer from 975-1373.

Vertical Panel #22 is a non-standard Array No. 2 located on the Westernmost appendage of Leduck Island. Its Elevation is 5.70 ft. above MLW and was determined by Water Level Transfer from 975-1371.

Vertical Panel #23 as it was requested in Project Instructions was to be located in heavily vegetated hills where no Elevation Control was available. No panel was placed at this location and its designator was omitted.

Vertical Panel #24 is a non-standard Array No. 2 located on the East side of Henley Cay. Its Elevation is 7.91 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical Panel #25 is also Horizontal Panel #9 and is a non-standard Array No. 1 placed direct on Horizontal Control Station PERKINS 1918. Its Elevation is 13.92 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical #26 is the top of a Nun Buoy at the South side of Johnson Reef. Its Elevation was 6.56 ft. above MLW at the time of photography. The Water Level was determined at 975-1414.

Vertical #26A is the white top of a Bouy at the North side of Johnson Reef. Its Elevation was 15.16 ft. above MLW at the time of -hotography. The Water Level was determined at 975-1414.

Vertical Panel #27 is a non-standard Array No. 2 located along the shore at Cinnamon Bay. Its Elevation is 6.70 ft. above MLW and was determined by Water Level Transfer from 975-1414.

Vertical Panel 975-1381 is an extra Vertical Control Point. It is a non-standard Array No. 2 placed direct over Bench Mark NO 1 1967 at the site of the Tide Station at Greater Lameshur Bay. Its Elevation is 3.24 ft. above MLW.

Tide Station 975-1373 is located in the town of Coral Bay. It is a Fischer-Porter ADR with a Vitrified Scale Staff. Two old Bench Marks were recovered and three new marks established. The MLW value of the Tide Staff was determined by levels from the two old Bench Marks. National Park Service personnel were contracted to provide observations at the gage. It is planned for this gage to be in operation for several months. The Elevation of the Staff Stop used for determination of Water Level Transfers off this Staff was 3.45 ft. above MLW.

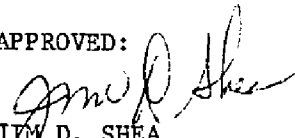
Tide Station 975-1381 is located at the Virgin Islands Ecological Research Station at Greater Lameshur Bay. It is a Fischer-Porter ADR with a Vitrified Scale Staff. Five old Bench Marks were recovered. The MLW value of the Tide Staff was determined by levels from the old Bench Marks. National Park Service Personnel were contracted to provide observations at the gage. It is planned for this gage to be in operation for several months. The Elevation of the Staff Stop used for determination of Water Level Transfers off this Staff was 5.26 ft. above MLW.

Tide Station 975-1414 is located at the Southwest corner of Mary Creek. It is a Metercraft Gas Purged System (Bubbler Gage) with a Vitrified Scale Staff. Two old Bench Marks were recovered and Five new marks established. The MLW value of the Tide Staff was determined by levels from BENCH MARK 1 1924. National Park Service Personnel were contracted to provide observations at the gage. It is planned for this gage to be in operation for several months. The Elevation of the Staff Stop used for determination of Water Level Transfers off this Staff was 3.96 ft. above MLW.


Records

Originals of all field records are submitted herein except where the originals were required for submission to separate activities. In these cases copies are herein submitted in lieu of the originals. Horizontal and Vertical Control are submitted separately.

APPROVED:

  
JIM D. SHEA  
CHIEF, COASTAL SURVEYS UNIT

SUBMITTED:

  
CLIFTON S. MIDDLETON JR.  
CHIEF, COASTAL PARTY 2

## PROJECT REPORT

## CM-8105 Follow-up

VERTICAL #12 - THE ORIGINAL CSI WAS FOUND TO BE IN ERROR.

A NEW CSI WAS INITIATED AND THE PANEL WAS PRICKED ON  
CONTACT 3-25-83 BC 2218.

VERTICAL #17 - THE ORIGINAL CSI WAS FOUND TO BE IN ERROR. A NEW

CSI CARD WAS INITIATED AND THE PANEL WAS PRICKED ON  
CONTACT 3-25-83 BC 2262.

VERTICAL #27 - THE PANEL NOT VISIBLE ON PHOTOGRAPHY. VERTICAL

PHOTO POINT #27A WAS ESTABLISHED. A NEW CSI CARD WAS INITIATED  
AND A NEW WATER LEVEL TRANSFER WAS PERFORMED TO ESTABLISH  
AN ELEVATION. THE PHOTO POINT WAS PRICKED ON CONTACT  
3-25-83 BC 22~~18~~<sup>36</sup>.

HORIZONTAL #3 - THE PANEL NOT VISIBLE ON PHOTOGRAPHY. HORIZONTAL

PHOTO POINT #3A WAS ESTABLISHED AND POSITIONED BY SOLAR  
AZIMUTH AND DISTANCE FROM PRINATEER 2 1985. A NEW  
CSI CARD WAS INITIATED AND THE PHOTO POINT WAS PRICKED  
ON CONTACT 3-25-83 BC 2218.

HORIZONTAL #5 - THE PANEL WAS PRICKED ON 3-25-83 BC 2273 AT THE

PANEL SITE AFTER CLOSE INSPECTION HOWEVER ITS IMAGE IS QUESTIONABLE  
ON THE AIRBORNE FLIGHT LINE. HORIZONTAL PHOTO POINTS #5A AND #5B  
WERE ESTABLISHED. HORIZONTAL PHOTO POINT #5A IS THE CENTER OF THE  
LIGHT AT THE MOUTH OF CREEK FAY WHICH IS AT THE CENTER OF A



313 PLATFORM AND IT WAS LOCATED BY SEAR AZIMUTH AND  
PPSA IS PICKED ON CONTACT # 3-25-83 BC 2273  
DISTANCE FROM STATION LIND 1916 RESET 1983, HORIZONTAL PHOTO

POINT # 5B IS THE CENTER TOP OF THE GOVERNMENT HOUSE IN CRUZ

BOM WHICH HAS A PUBLISHED THIRD ORDER POSITION HOWEVER IT

SHOULD BE USED WITH CAUTION AS IT IS NOTED ON THE CSI CARD

THAT THE STATIONS DESCRIPTIVE FEATURES ARE AMBIGUOUS, PHOTO POINT

# 5B WAS PICKED ON CONTACT 3-25-83 BC 2228.

SUBMITTED 12/21/1983

Capt. M. J. [Signature]  
CHIEF, COASTAL PARTY 2

Photogrammetric Plot Report  
St. John, Virgin Islands  
CM-8105  
April 1984

21. AREA COVERED

The area covered by this report is the island of St. John, Virgin Islands. The project area is covered by four 1:10,000 scale sheets; TP-01162, TP-01128, TP-01129, and TP-01130.

22. METHOD

Five strips of 1:15,000 scale photographs were bridged by analytic aerotriangulation methods. The strips of bridging photographs were controlled by field identified control. Tie points were used to ensure an adequate junction of strips. Points for compilation were established on the 1:15,000 scale photographs for the 1:10,000 scale sheets. The bridging photographs will be used for the 1:10,000 scale sheets. Ratios of the 1:15,000 scale compilation photographs and 1:15,000 scale infrared photographs were determined and the ratios were ordered by this office.

The manuscripts were plotted by the Calcomp 718 plotter.

23. ADEQUACY OF CONTROL

The horizontal control was adequate and the aerotriangulation positions meet National Ocean Service accuracy requirements. Point #159101 (PRIVATEER 2, 1983 Sub pt.) was not used in the adjustment because the wrong point was measured.

Point #188201 (Vertical Panel #13) is off 3.3 feet, but was held in the adjustment because it keeps a shoreline point near water level. Point #236201 (Vertical Panel #27A) was off 3.4 feet due to poor stereo image. All other vertical control points are within + 3 feet.

24. SUPPLEMENTAL DATA

A Nautical Chart was used to locate aids and landmarks.

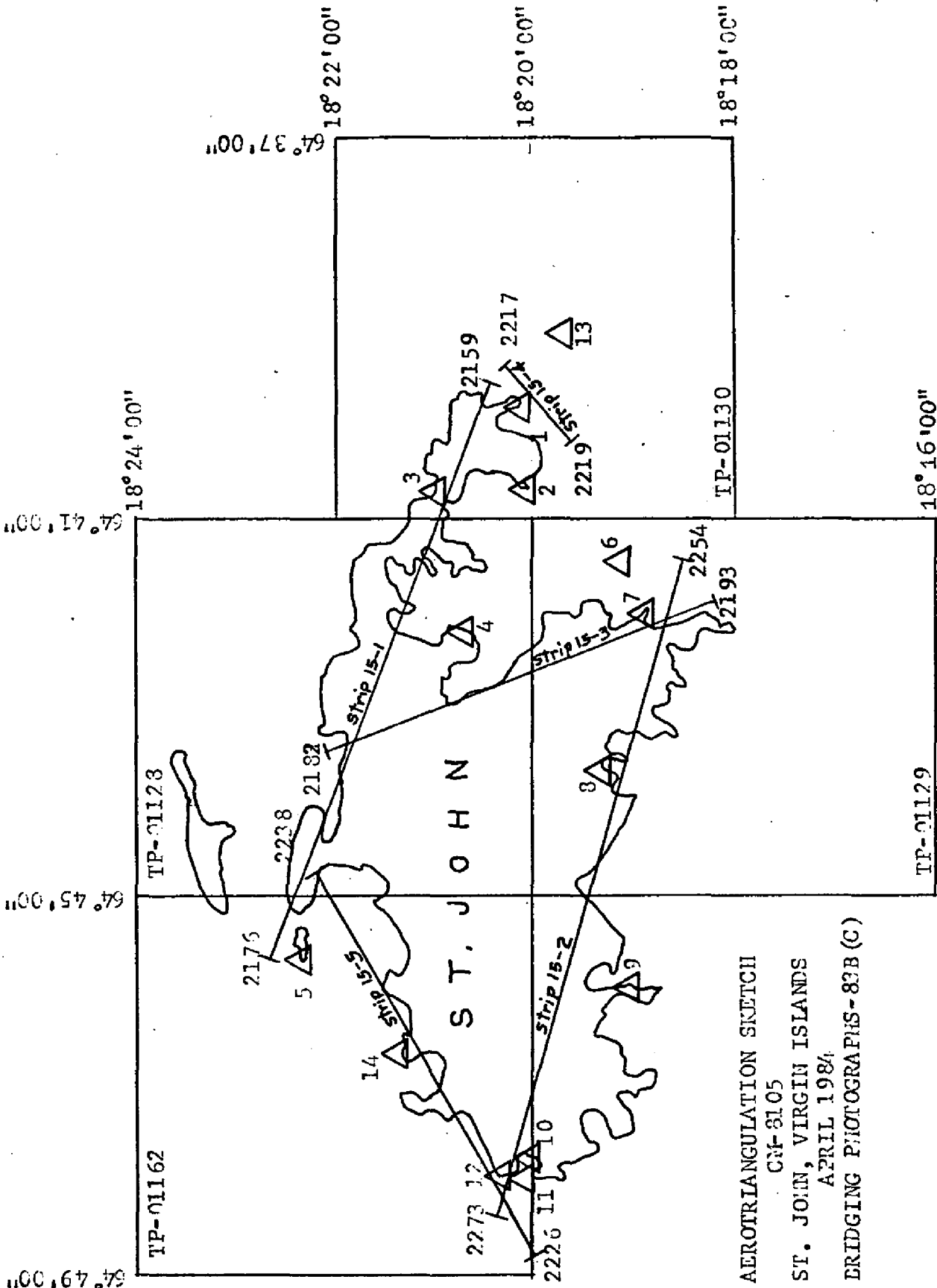
25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by:  
*John McClure*  
John McClure

Approved and Forwarded:

*Don O. Norman*  
Don O. Norman  
Chief, Aerotriangulation Unit



AEROTRIANGULATION SKETCH  
 CM-8105  
 ST. JOHN, VIRGIN ISLANDS  
 APRIL 1984  
 ERIDGING PHOTOGRAPHS-83B (C)

## FIT TO CONTROL (IN FEET)

CM-8105

St. John, Virgin Islands

△ Horizontal Control held in adjustment

□ Vertical Control held in adjustment

<u>Strip 15-1</u>	<u>Point Number</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
1. PRIVATEER 2, 1983 Sub pt.	159101			
△ 2. MOOR 1918	161100	+0.6	+0.6	
□△ 3. NGS DOPPLER STA. 50439, 1982	163100	0.0	-1.0	-2.2
△ 4. BAT 1918	186100	-0.6	+0.5	
□△ 5. WHISTLE 1918	175100	0.0	-0.1	-0.9
□ Vertical Panel #2	173201			+0.2
□ Vertical Panel #9	161201			+0.7
□ Vertical Panel #11	161203			+0.6
□ Vertical Panel #10	161202			+0.5
□ Water level pt.	163201			-0.3
□ Vertical Panel #6	165201			-0.8
□ Vertical Panel #7	165202			+0.7
□ TIDAL BENCH MARK 2, 1924	186202			0.0
□ Vertical Panel #4	186201			-0.7
□ Water level pt.	169201			-0.1
□ Vertical Panel #5	171202			+0.5
□ Vertical Panel #3	171201			+1.2
□ Water level pt.	173202			+0.8
□ Water level pt.	173203			-0.3
□ Vertical Panel #26A	234202			-0.1
<u>Strip 15-2</u>				
△ 6. NGS DOPPLER STA. 50438, 1982	254100	-0.2	-0.5	
△ 7. NANNY 1918	256100	+0.5	+0.8	
□△ 8. LAM 1983 Sub pt.	260101	-0.5	-0.6	-1.1
□△ 9. DIT 1918 Sub pt.	266100	+0.1	+0.1	0.0

△ 10. ST. JOHN GOVT HOUSE GABLE	228100	+1.4	+2.0	
△ 11. LIND 1918 RESET 1983 Sub pt.	270101	+1.0	-2.4	
△ 12. LIND 1918 RESET 1983	270100	-0.3	-0.5	
□ Water level pt.	254203			+1.5
□ Vertical Panel #20	254201			-0.3
□ Vertical Panel #21	256201			-0.3
□ Vertical Panel #21A	192201			+0.4
□ Vertical Panel #19	258201			0.0
□ LAMESHUR BAY TIDE STA. 975-1381				
□ TIDAL B.M. NO.1 1967	260201			-1.8
□ Water level pt.	264202			-1.6
□ Vertical Panel #16	266201			+2.2
□ Water level pt.	266202			+2.0
□ Water level pt.	270202			-0.5
□ Water level pt.	270203			-0.3
□ Vertical Panel #15	270201			-0.1
□ Water level pt.	270204			+1.5
□ Vertical Panel #14	272201			0.0
□ Water level pt.	273201			-1.3
Vertical Panel #17	264201			-2.9

Strip 15-3

△ Tie from Strip 15-1	182803	0.0	0.0	-3.0
△ 7. NANNY 1918	256100	+0.1	+0.3	
△ 6. NGS DOPPLER STA. 50438, 1982	254100	0.0	-0.3	
△ 4. BAT 1918	186100	-0.2	0.0	
□ Vertical Panel #21A	192201			-0.1
□ Vertical Panel #21	256201			0.0
□ Vertical Panel #20	254201			0.0
□ Vertical Panel #19	258201			+0.5
□ Vertical Panel #6	165201			+0.8
□ TIDAL BENCHMARK 2, 1924	186202			+1.3
□ Vertical Panel #4	186201			+0.3

<input type="checkbox"/> Vertical Panel #5	171202			-1.4
<input type="checkbox"/> Vertical Panel #3	171201			+0.3
<input type="checkbox"/> Water level pt.	186204			+0.2
<input type="checkbox"/> Vertical Panel #13A	186203			+1.2
<input type="checkbox"/> Vertical Panel #13	188201			-3.3
<input type="checkbox"/> Water level pt.	190201			+0.4

Strip 15-4

△ 13. FLANNAGAN 1918	217100	0.0	0.0	
△ 2. MOOR 1918	161100	0.0	0.0	
1. PRIVATEER 2, 1983 Sub pt.	159101			
<input type="checkbox"/> Vertical Panel #12	217201			0.0
<input type="checkbox"/> Vertical Panel #11	161203			0.0
<input type="checkbox"/> Vertical Panel #10	161202			0.0
<input type="checkbox"/> Vertical Panel #9	161201			0.0
Water level pt.	218201			+1.6
Water level pt.	218202			-0.3
Water level pt.	218203			+0.2
Water level pt.	219201			-0.7

Strip 15-5

△ 12. LIND 1918 RESET 1983	270100	-1.4	-1.0	
△ 11. LIND 1918 RESET 1983 Sub pt.	270101	0.0	-0.3	
△ 10. ST. JOHN GOVT HOUSE GABLE	228100	+1.0	+0.6	
<input type="checkbox"/> △ 14. PERKINS 1918	232100	+0.7	-0.5	+1.6
<input type="checkbox"/> △ 5. WHISTLE 1918	175100	-0.2	+0.1	-0.3
<input type="checkbox"/> Water level pt.	228201			+0.6
<input type="checkbox"/> Vertical Panel #15	270201			-0.7
<input type="checkbox"/> Vertical Panel #24	230201			-0.9
<input type="checkbox"/> Water level pt.	236202			-0.2
<input type="checkbox"/> Vertical Panel #2	173201			0.0
Vertical Panel #27A	236201			+3.4

## St. John, Virgin Islands

CM-8105

April 1984

## Ratio values for 1:15,000 scale black-and-white infrared photographs:

83 B(R) 2345-2351	X1.51
2355-2358	X1.51
2361-2370	X1.51
2374-2383	X1.51
2389-2396	X1.51

## Ratio values for 1:15,000 scale color bridging photographs:

83 B(C) 2159-2176	X1.51
2182-2193	X1.51
2217-2219	X1.51
2226-2238	X1.51
2254-2273	X1.51

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01129	JOB NO. CM-8105	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEOGETIC DATUM Puerto Rico Horizontal Datum		ORIGINATING ACTIVITY Coastal Mapping Unit, Rockville, MD	REMARKS	
				COORDINATES IN FEET				
				STATE ZONE	P.R. & Virgin Is. N/A	φ	λ	φ LATITUDE
NANNY 1918	Quad 180643 Sta. 1074			X=	1,101,153.37	φ	18-18-53.119	Recovered in 1983
				Y=	177,653.07	λ	064-42-00.248	
50438 1982	Project Field Data Binder			X=	1,104,379.98	φ	18-19-06.827	Doppler Station Recovered in 1983
				Y=	179,066.41	λ	064-41-26.620	
				X=		φ		
				Y=		λ		
				X=		φ		
				Y=		λ		
				X=		φ		
				Y=		λ		
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				Y=		λ		
				X=		φ		
				Y=		λ		
				X=		φ		
				Y=		λ		
COMPUTED BY								DATE
								DATE
LISTED BY								DATE
	E. D. Allen						T. Doyle	8/85
HAND PLOTTING BY								DATE
								DATE



## Compilation Report

TP-01129

## 31. Delineation

Delineation was accomplished using a Wild B-8S stereoplotter through application of standard compilation techniques. Delineation of the shoreline, alongshore, offshore and interior cartographic features and details was based on office interpretation of the 1:15,000 scale natural color photographs. The 1:15,000 scale infrared photographs were used as an aid in interpreting the shoreline.

## 32. Control

Horizontal control furnished by the Aerotriangulation Unit was adequate for controlling the stereomodels. Refer to the Photogrammetric Plot Report bound with this Descriptive Report for additional information.

Vertical control was achieved by using a combination of paneled vertical control stations and elevations provided by the Aerotriangulation Unit.

## 33. Supplemental Data

No survey, map or plan of this agency or of any other organization was used to supplement the compilation photographs in the identification of cartographic features.

## 34. Contours and Drainage

The compilation of contours was not a requirement of this project. Due to the lack of cultural detail, prominent peaks were depicted on the map.

Drainage was compiled based on office interpretation of the color compilation photographs.

## 35. Shoreline and Alongshore Detail

The mean high water line and shoreline structures were compiled as described in item 31 of this report. There was no preliminary field inspection of the shoreline.

## 36. Offshore Detail

The limits of submerged coral formations, where visible, were delineated from the natural color photographs. These limits indicate the characteristics of the seabed and do not necessarily represent a hazard to navigation.

## 37. Landmarks and Aids

One charted landmark was confirmed and measured during compilation.

## 38. Control for Future Surveys

Refer to NOAA Form 76-41 bound with this Descriptive Report for information on recoverable control for future surveys.

## 39. Junctions

Refer to item 5 of NOAA Form 76-36B(Data Record), which is bound with this Descriptive Report, for information on map junctions.

## 40. Horizontal and Vertical Accuracy

This map meets the requirements of the National Standards of Map Accuracy. Refer to the Photogrammetric Plot Report bound with this Descriptive Report for more information.

## 41. Photobathymetry

A photobathymetric survey was conducted for the southern section of coast depicted on this map. Refer to the Summary bound with this Descriptive Report for information on this subject.

## 42. Cartographic Features of Possible Landmark Value

One cartographic feature of possible landmark value was identified and measured during compilation. Refer to the listing "Cartographic Features of Possible Landmark Value", which is bound with this Descriptive Report, for additional information.

## 43. through 45. - Not Applicable

## 46. Comparison with Existing Maps

Comparison with existing maps was not a requirement of this project.

## 47. Comparison with Nautical Charts

A comparison was made with the following National Ocean Service nautical charts:

25647, 7th Edition, November 3,1984; 1:15,000 scale

25641, 20th Edition, March 3,1984; 1:100,000 scale.


A Chart Maintenance Print indicating the results of the comparison was forwarded to the Marine Chart Branch, Rockville, Maryland. Refer to the print for items to be immediately applied and carried forward.

Submitted by,



Ted Doyle  
Cartographer (Photogrammetry)

Approved by,



Robert W. Rodkey, Jr.

Chief, Coastal Mapping Unit

Review Report

TP-01129

61. General Statement

Refer to the Summary bound with this Descriptive Report for an overview of the photogrammetric operations related to the production of this map and associated data.

62. Comparison with Registered Topographic Surveys

Comparison with registered topographic surveys was not a requirement for this project.

63. Comparison with Maps of Other Agencies

Refer to item 46 of the Compilation Report bound with this Descriptive Report for detailed information on this topic.

64. Comparison with Hydrographic Surveys

Comparison with hydrographic surveys was not a requirement for this project.

65. Comparison with Nautical Charts

Refer to item 47 of the Compilation Report bound with this Descriptive Report for information on this topic.

66. Adequacy of Results and Future Surveys

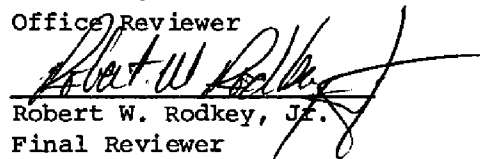
This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

Submitted by,



Edward D. Allen

Office Reviewer



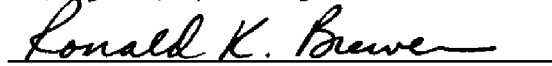
Robert W. Rodkey, Jr.

Final Reviewer

Approved by,



Acting Chief, Photogrammetric Production Section



Acting Chief, Photogrammetry Branch

## GEOGRAPHIC NAMES

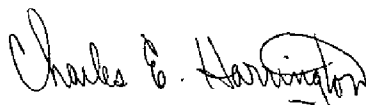
## FINAL NAME SHEET

CM-8105 (St. John, Virgin Islands)

TP-01129

Booby Rock	Kiddel Bay
Cabrithorn	Kiddel Point
Cabrithorn Point	Lagoon Point
Calabash Boom	Lameshur
Caribbean Sea	Leduck Island
Coral Bay	Little Lameshur Bay
Drunk Bay	Nanny Point
Eagle Shoal	Ram Head
Europa Bay	Reef Bay
Friis Bay	Sabbat Channel
Genti Bay	Sabbat Point
Great Lameshur Bay	Saint John
Grootpan Bay	Salt Pond
Johns Folly	Saltpond Bay
Johns Folly Bay	White Point
Johnson Bay	

Approved:

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

## INDEX TO PROJECT DATA AND MATERIAL ON FILE

CM-8105

St. John Island, USVI

## NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

## Brown Jacket:

Three Field Data Binders containing NOAA Forms, field photographs, computational listings; titled: "Horizontal Premarking", "Vertical Premarking" and "Follow-Up".  
 Four NOAA Form 76-77, Leveling Record - Tide Station  
 Three NOAA Form 77-53, Tides  
 One NOAA Form 76-52, Observations of Horizontal Directions  
 One envelope containing seventeen(17) Field Annotated Contact Prints(photographs)  
 One envelope containing Photogrammetric Plot Report(1 copy), Aerotriangulation Strip Adjustments(5), Geodetic and Aerotriangulated Control Listing(1 copy, 6 pages), NOAA Form 76-41(6 pages, the original from Aerotriangulation Unit), Project Diagram(1 copy).

Project Completion Report

## AGENCY ARCHIVES

Registration Copy of Each Map  
 Descriptive Report of Each Map

## PHOTOGRAMMETRIC ELECTRONIC DATA LIBRARY

Photogrammetric Digital Source Data Files for the Project

## REPRODUCTION BRANCH

8X Reduction Negative of Each Map

## OFFICE OF STAFF GEOGRAPHER

Geographic Names Standard

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

PROJECT NUMBER: CM-8105

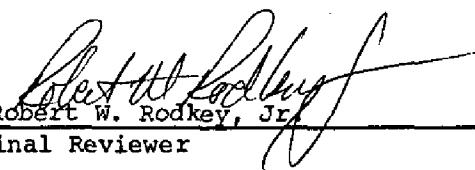
PROJECT NAME: St. John Island, Virgin Islands

MAP NUMBER: TP-01129, Southern Coast, Lagoon Point to Reef Bay

The following charted landmarks and nonfloating aids to navigation have been measured and or confirmed during photogrammetric operations. All geographic positions are based on the N.A. 1927 Datum. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for clarification of NCD Quality(Q.C.) and Cartographic(CARTO) Codes.

<u>FEATURE DESCRIPTION</u>	<u>CARTO CODE</u>	<u>GEOGRAPHIC POSITION *</u>		<u>NCD Q.C.</u>	<u>DATE OF LOCATION</u>
		<u>LATITUDE</u>	<u>LONGITUDE</u>		
Chimney at Genti Bay END	086	18-19-29.98	064-44-44.36	4	3/25/83

\* - Puerto Rico Horizontal Datum

Listing approved by: Robert W. Rodkey, Jr.  June, 1986  
Final Reviewer Date

## LISTING OF CARTOGRAPHIC FEATURES OF POSSIBLE LANDMARK VALUE

Page 1 of 1

PROJECT NUMBER: CM-8105

PROJECT NAME: St. John Island, Virgin Islands

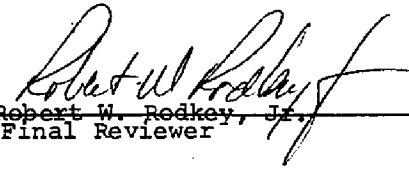
MAP NUMBER: TP-01129, Southern Coast, Lagoon Point to Reef Bay

The following cartographic features have been identified as being of possible landmark value. These features have been identified and measured during photogrammetric operations. All geographic positions are based on the N.A. 1927 Datum unless otherwise noted. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for clarification of Quality (Q.C.) and Cartographic (CARTO) Codes.

FEATURE DESCRIPTION	CARTO CODE	GEOGRAPHIC POSITION *		NCD Q.C.	DATE OF LOCATION
		LATITUDE	LONGITUDE		
Antenna (Southerly of 2) at Johns Folly	993	18-19-15.04	064-42-04.83	4	3/25/83
END					

\* - Puerto Rico Horizontal Datum

Listing approved by:


  
 Robert W. Rodkey, Jr.  
 Final Reviewer

June, 1986

Date

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-61129

**INSTRUCTIONS**

- A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
  2. In "Remarks" column cross out words that do not apply.
  3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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